DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, KANSAS CITY DISTRICT
635 FEDERAL BUILDING
601 E 12TH STREET
KANSAS CITY MO 64106-2824

REPLY TO ATTENTION OF

May 10, 2011

Environmental Programs Branch
Planning, Programs and Project Management Division

Mr. Ken Rapplean, Remedial Project Manager
U.S. Environmental Protection Agency, Region VII
Superfund Division, Kansas/Missouri Remedial Section
901 N. 5th Street
Kansas City, Kansas 66101

Ms. Stacey Stricker
Nebraska Department of Environmental Quality
The Atrium 1200 N Street
P.O. Box 98922
Lincoln, NE 68509-8922

Dear Mr. Rapplean and Ms. Stricker,

Enclosed for your records is the Final 2010 Groundwater Monitoring Program Annual Report for Operable Unit No. 2 (Groundwater) at the former Nebraska Ordnance Plant. Replacement pages for the cover, spine and signature page are included along with 1 compact disc (CD) in electronic format. If you have any questions, please contact me at (816) 389-3172 or by email at Kristine.M.Stein@usace.army.mil

Sincerely,

Kristine M. Stein
Project Manager

Printed on Recycled Paper

TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE *(Read instructions on the reverse side prior to initiating this form)*	DATE: May 10, 2011	TRANSMITTAL NO. 2011-040

SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by contractor)

Attn: Kristine Stein USACE, Kansas City District 601 E. 12th St. Kansas City, MO 64106-2896	FROM: Susan Carter ECC 1746 Cole Blvd, Bldg 21, Lakewood, CO 80401	CONTRACT NO. W912DQ-08-D-0001, Task Order 0002	CHECK ONE: __X__ THIS IS A NEW TRANSMITTAL ____ THIS IS A RESUBMITTAL OF TRANSMITTAL _____
SPECIFICATION SECTION NO. (cover only one section with each transmittal)	PROJECT TITLE AND LOCATION: Operable Unit No. 2 (Groundwater) Former Nebraska Ordnance Plant, Mead, Nebraska		CHECK ONE: ___ FIO __X__ For Govt. Approval

ITEM NO. *a.*	DESCRIPTION OF ITEM SUBMITTED *(Type, size, model number, etc.)* *b.*	MFG. OR CONTR. CAT., CURVE DRAWING OR BROCHURE NO. *(See instruction No. 8)* *c.*	NO. OF COPIES *d.*	CONTRACT REFERENCE DOCUMENT: SPEC. PARA. NO. *e.*	CONTRACT REFERENCE DOCUMENT: DRAWING SHEET NO. *f.*	FOR CONTRACTOR USE CODE *g.*	VARIATION *(See instruc. no. 6)* *h.*	FOR C E USE CODE *i.*
1	Final 2010 Groundwater Monitoring Program Annual Report		2					

REMARKS

Ken Rapplean - EPA (2 copies)
Stacey Stricker - NDEQ (2 copies)
Mead Library - 1 copy

I certify that the above submitted items have been reviewed in detail and are correct and in strict conformance with the contract drawings and specifications except as otherwise stated.
Susan Carter, Denver Science & Engineering Group

Susan Carter

NAME AND SIGNATURE OF CONTRACTOR

SECTION II - APPROVAL ACTION

ENCLOSURES RETURNED (List by Item No.)	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	DATE

FINAL

2010 GROUNDWATER MONITORING PROGRAM ANNUAL REPORT

OPERABLE UNIT No. 2 (GROUNDWATER)
FORMER NEBRASKA ORDNANCE PLANT
MEAD, NEBRASKA

Prepared for

United States Army Corps of Engineers
Kansas City District

May 2011

ECC
1746 Cole Boulevard, Suite 350
Lakewood, Colorado 80401

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FINAL
2010 GROUNDWATER MONITORING PROGRAM ANNUAL REPORT

OPERABLE UNIT No. 2 (GROUNDWATER)
FORMER NEBRASKA ORDNANCE PLANT
MEAD, NEBRASKA

May 2011

I hereby certify that the enclosed *2010 Groundwater Monitoring Program Annual Report*, shown and marked in this submittal, is in compliance with the contract specifications and is submitted for government approval for the former Nebraska Ordnance Plant near Mead, Nebraska.

Reviewed by:

5/9/11

ECC Project Manager Date

Accepted as a submittal:

USACE Contracting Officer Date

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LIST OF ACRONYMS AND ABBREVIATIONS

AMA	Atlas Missile Area
AWSS	Alternate Water Supply Support
bgs	below ground surface
BMcD	Burns and McDonnell
CD	compact disc
CENWK	Northwest Division, Kansas City District
COC	contaminant of concern
DoD	Department of Defense
EPA	United States Environmental Protection Agency
FEW	focused extraction well
ft	feet
GAC	granular activated carbon
GMP	Groundwater Monitoring Program
HA	Health Advisory
ID	Identification
IDT	Intelligent Design Technologies, Inc.
J	Estimated
LL	Load Line
MCL	maximum contaminant level
µg/L	micrograms per liter
MS/MSD	matrix spike/matrix spike duplicate
M.U.D.	Metropolitan Utility District
MW	monitoring well
NDEQ	Nebraska Department of Environmental Quality
NOP	Nebraska Ordnance Plant
OU	Operable Unit
QC	quality control
QCSR	Quality Control Summary Report
QSR	Quarterly Summary Report
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
ROD	Record of Decision
SW	surface water
TB	trip blank
TCE	trichloroethene
UNFL	University of Nebraska Lincoln Field Lab
UNL	University of Nebraska Lincoln
USACE	United States Army Corps of Engineers
VOC	volatile organic compound
WSW	water supply well

1.0 INTRODUCTION

This *2010 Groundwater Monitoring Program Annual Report* summarizes and discusses the results of the 2010 sampling events at the former Nebraska Ordnance Plant (NOP) (the Site) for groundwater monitoring wells, water supply wells and surface water sample locations. This Groundwater Monitoring Program (GMP) Report also discusses the alternate water supply support (AWSS) program and the water level monitoring. In addition to four quarterly sampling events, a baseline monitoring well sampling event was conducted on newly installed wells developed in 2010. Historical data incorporated into this 2010 GMP Annual Report was obtained from various documents including the *Remedial Investigation Report, Operable Unit No. 2 (Groundwater)* (Woodward-Clyde, 1993a); the *Additional Field Investigation Report Operable Unit No. 2 (Groundwater)* (Woodward-Clyde, 1993b); and a series of GMP Annual Reports from 2000 through 2009.

This report contains the following Appendices:

- Appendix A contains the Graphical Figures (trend charts) Presenting the Historical Detections of TCE and RDX for Each Well Locations;
- Appendix B contains the Statistical Charts;
- Appendix C contains the historical spreadsheet of all trichloroethene (TCE) and hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) results;
- Appendix D contains the Summary of Results from the 2010 Monitoring Well Sampling Events; and
- Appendix E contains the 2010 Data Quality Assessment Report.

1.1 Objectives

The objectives of the 2010 Site-Wide GMP were established in the *Site-Wide Work Plan* (ECC, 2009) and consist of the following:

- To monitor and evaluate potential changes in the concentrations of contaminants of concern (COCs) defined in the *Record of Decision, Operable Unit No. 2, Former Nebraska Ordnance Plant, Mead, Nebraska* (Woodward-Clyde, 1996);
- To monitor and evaluate the concentration of contaminant groundwater plumes; and
- To provide data for evaluating whether contaminant plume(s) are being contained by the groundwater extraction well network.

An additional objective of the 2010 Site-Wide GMP was to treat and discharge extracted groundwater to meet applicable standards, which is discussed in the *Annual Operations, Maintenance, and Monitoring Summary Report, Main Groundwater Treatment Plant, Load Line 1 Groundwater Treatment Plant, Advanced Oxidation Process Groundwater Treatment Plant and Load Line 4 Groundwater Treatment Plant Year 2010, Former Nebraska Ordnance Plant, Mead, Nebraska*. (ECC, 2011a).

1.2 Site Description

The former NOP is located south and east of Mead, Nebraska and west of Omaha, Nebraska in Saunders County (Figure 1-1) and is approximately 17,250 acres in size. Currently a little over half of that acreage (8,650 acres) is owned by the University of Nebraska Lincoln (UNL), which operates an Agricultural Research and Development Center at the Site. The Agricultural Research and Development Center includes facilities for research in the areas of forestry, dairy, cattle, swine, crop, agronomy, entomology, and environment. Other portions of the Site are owned by Department of Defense (DoD) for use by the Nebraska National Guard and Army Reserves. Private ownership accounts for the remaining portions of the Site. The privately-owned land is utilized for pastures and crops, as well as light industry located near the northern end of the site. Adjacent land-use is primarily agricultural.

The Site is nearly flat, with a few gentle slopes. Surface water drainage within the eastern portion of the Site is generally to the southeast, toward Johnson Creek and the Lower Platte North Natural Resources District Reservoir. In the western portion of the Site, surface water drains to the southeast, via Silver Creek. A description of the Main Groundwater Treatment Plant, the Load Line (LL) 1 and LL4 Groundwater Treatment Plant, and the Advanced Oxidation Process pretreatment system are presented in the *Annual Operations, Maintenance, and Monitoring Summary Report, Main Groundwater Treatment Plant, Load Line 1 Groundwater Treatment Plant, Advanced Oxidation Process Groundwater Treatment Plant and Load Line 4 Groundwater Treatment Plant Year 2010* (ECC, 2011a).

1.3 Scope of Work

The 2010 GMP sampling consisted of collecting groundwater samples and water levels from selected groundwater monitoring wells, and water supply wells; collecting surface water samples from three area creeks (Silver Creek, Clear Creek, and Johnson Creek); reporting these results on a quarterly basis; and summarizing the results in an annual report. The 2010 scope of work is presented in tables and figures approved on January 5, 2010, which are considered an update to the *Site Wide Work Plan* (ECC, 2009). In addition, alternate water supply support was provided in accordance with the requirements of the Operable Unit (OU) No. 2 Record of Decision (ROD) and is discussed in Section 6. Figure 1-2 shows the locations of the groundwater monitoring wells, water supply wells, alternate water supply wells, and surface water sampling locations.

1.4 2010 Sampling Event Summary Reports

Quarterly Summary Reports (QSRs) and the Summary Report for the Baseline Monitoring Well Sampling Event present validated analytical results for the GMP sampling events and include the Quality Control Summary Reports (QCSRs). The QCSRs present detailed results of the data validation for the sampling events, including data qualifiers, sample collection summaries, data summary tables, and completeness calculations. Each QCSR contains appendices with the sample Chain-of-Custody Records; field sampling documents, water quality parameter forms, daily field logbook pages, data validation qualifiers reference sheet; and the complete analytical laboratory report (on a compact disc [CD]) for the associated monitoring well, water supply well,

and surface water sampling events. Results from the 2010 monitoring well, water supply well, and surface water sampling events were presented in the following reports:

- *Summary Report 2010 Baseline Monitoring Well Sampling Event, Operable Unit No. 2 (Groundwater) Former Nebraska Ordnance Plant, Mead, Nebraska* (ECC, 2010a);
- *Quarterly Summary Report First Quarter 2010 Sampling Events, Operable Unit No. 2 (Groundwater) Former Nebraska Ordnance Plant, Mead, Nebraska* (ECC, 2010b);
- *Quarterly Summary Report Second Quarter 2010 Sampling Events, Operable Unit No. 2 (Groundwater) Former Nebraska Ordnance Plant, Mead, Nebraska* (ECC, 2010c);
- *Quarterly Summary Report Third Quarter 2010 Sampling Events, Operable Unit No. 2 (Groundwater) Former Nebraska Ordnance Plant, Mead, Nebraska* (ECC, 2010d); and
- *Quarterly Summary Report Fourth Quarter 2010 Sampling Events, Operable Unit No. 2 (Groundwater) Former Nebraska Ordnance Plant, Mead, Nebraska* (ECC, 2011b).

Detailed sample collection data are presented in each QCSR for the following:

- Quality Control (QC) split (field duplicate) samples;
- Matrix Spike/Matrix Spike Duplicates (MS/MSD) samples;
- Trip blank (TB) and rinsate samples;
- A cross-reference between laboratory identification (ID) numbers and field sample ID numbers;
- Sample Delivery Group numbers;
- Dates of sample collection and sample receipt by the laboratory; and
- Requested analyses.

Water samples collected during the 2010 GMP sampling events were shipped to Test America Laboratories, South Burlington, Vermont and Savannah, Georgia for analysis. Samples were analyzed for Volatile Organic Compounds (VOCs) by the United States Environmental Protection Agency (EPA) SW-846 Method 8260B and EPA Drinking Water Method 524.2, explosive compounds were analyzed for by EPA SW-846 Method 8330, and total suspended solids by Method SM2540D.

QC procedures were performed in accordance with the *Site-Wide Work Plan* (ECC, 2009a). Field duplicate samples were collected to assess field collection precision and the consistency and quality of data produced by the laboratory. Field duplicates were collected at a rate of one per 10 field samples. Rinsate samples were collected in the field to assess decontamination procedures and effectiveness and were collected in the field daily when groundwater monitoring wells with non-dedicated equipment were sampled and MS/MSD samples were collected at a rate of one per 20 field samples. Prepared TBs were placed in coolers containing samples designated for VOC analysis to assess the potential for VOC cross-contamination. Sample cooler temperature was determined by measuring the temperature of a field sample at the laboratory with a calibrated infrared thermometer.

1.5 Graphical Presentation

Historical detections for wells with four or more data points are illustrated in trend charts presented in Appendix A to demonstrate how the concentrations of TCE and RDX have varied through time. These trend charts are organized by well type and are integrated into the discussion of detections for each well type herein.

1.6 Statistical Analyses

In an effort to ensure that analytical results are meaningful and can be used to identify contamination trends for the Site, statistical analyses were conducted to identify trends in concentrations or any significant increases or decreases in TCE or RDX concentrations. Statistical analyses were performed for TCE and RDX results for sampling locations with adequate data using the Sanitas™ Statistical Analysis Program, which was developed by Intelligent Decision Technologies, Inc. (IDT) of Longmont, Colorado (IDT, Inc., 2002). Sen's Slope/Mann-Kendall analyses were used to identify increasing or decreasing trends in concentrations; and Intrawell Prediction Limit analyses were performed to determine if there were any significant increases in concentrations exceeding the statistically-derived prediction limit for each monitoring well/constituent pair. Statistical significant increases or decreases are based on comparing the 2010 data points individually to the mean calculated based on all previous data for a well.

The *2009 Groundwater Monitoring Program Annual Report, Operable Unit No. 2 (Groundwater) Former Nebraska Ordnance Plant, Mead, Nebraska* provides further information regarding the calculations used by these analysis types (ECC, 2010f). The statistical charts generated from these analyses are presented in Appendix B.

Table 1-1 identifies statistically significant increases using Sen's Slope Estimator/Mann-Kendall Test Trend and Prediction Limit analyses for RDX and TCE detections in groundwater at the Site and is organized by well type. For the Site's statistical evaluation, the Sen's Slope Estimator/Mann-Kendall Test Trend analysis used a one-tailed test with a 97.5 percent prediction interval. No charts were generated for wells in which all concentrations (TCE and/or RDX) were non-detect or for wells which were not sampled during 2010. All available historical data was used in each statistical evaluation (note: a minimum of five data points) is necessary to perform the Sanitas™ evaluation). The results from the statistical analysis for each well are further discussed as part of the evaluation of the analytical results.

2.0 SITE BACKGROUND

Section 2.0 presents a general Site background; history and operations of the Site; and a description of the Site soils; geology; and hydrogeology.

The Site was placed on the EPA National Priorities List of Superfund sites in August 1990 because contamination was identified in the groundwater and the soils at the Site, and the contamination is considered to be a potential risk to public health, welfare, and the environment. Because the Site covers a large area with different types of contamination in various media as shown on Figure 1-2, cleanup activities were organized into the following three OUs:

- OU1 (Soils) - encompasses the upper 4 feet of soil contaminated with explosive compounds.
- OU2 (Groundwater) - includes groundwater contaminated with VOCs and explosive compounds; explosives-contaminated soil which could act as a source of explosives contamination of groundwater and which does not meet the OU1 excavation criteria.
- OU3 (Landfill and other unidentified disposal areas and areas potentially impacted by ordnance and explosives) - includes a former on-site landfill and areas of waste not previously identified.

The Site GMP focuses on contaminated groundwater included under OU2. No further action for explosives contaminated soil is required for OU2 as discussed within the *5 Year Review, Operable Unit No. 2 (Groundwater) Former Nebraska Ordnance Plant Mead, Nebraska* (URS, 2009). The United States Army Corps of Engineers (USACE), Northwest Division, Kansas City District (CENWK), EPA, and Nebraska Department of Environmental Quality (NDEQ) selected the Final Target Groundwater Cleanup Goals for OU2 (Woodward-Clyde, 1996) as listed on Table 2-1.

In 1997, EPA and the USACE signed an OU2 ROD for the containment and remediation of contaminated groundwater at the Site. The horizontal extent of the TCE and RDX contaminant plumes were defined in the OU2 ROD by measuring the TCE and RDX concentrations at monitoring well clusters where TCE was detected at concentrations exceeding the associated Final Target Groundwater Cleanup Goal of 5 micrograms per liter (µg/L) in groundwater or RDX was detected at concentrations exceeding the associated Final Target Groundwater Cleanup Goal of 2 µg/L in groundwater.

The groundwater contaminant plumes identified at the Site are:

- TCE plume within LL4 (includes the landfill area and Atlas Missile Area [AMA]);
- TCE plume within LL1;
- TCE plume within LL2;
- Explosive compounds plume within LL1;
- Explosive compounds plume within LL2;

- Explosive compounds plume within LL3; and
- Explosive compounds plume within LL4.

The migration of these contaminant plumes is primarily dictated by the south and southeast directions of groundwater flow described in Section 3.0 of this report.

2.1 Site History and Operations

Site history and operations is discussed in Section 1.1 of the *Site-Wide Work Plan* (ECC, 2009).

More detailed information on the physical setting at the Site is available in the *Remedial Investigation Report* (Woodward-Clyde, 1993a).

2.2 Soils and Geology

The geology within the Site consists of Cretaceous-age bedrock, Quaternary-age glacial deposits, and Quaternary-age alluvial deposits. These are further described in Section 2.2 of the *2008 Groundwater Model Update, Operable Unit No. 2 (Groundwater) Former Nebraska Ordnance Plant, Mead, Nebraska* (URS, 2009b).

Figure 2-1 presents cross section locations through the Site. Figure 2-2a presents a north-south cross section, and Figure 2-2b presents a west-east cross section through the Site. These figures illustrate the shallow subsurface geology. Shallow groundwater monitoring wells are generally screened in the upper half of the saturated alluvium. Intermediate groundwater monitoring wells are generally screened in the lower half of the saturated alluvium. Deep groundwater monitoring wells are generally screened near the top of the Omadi Formation. Deep groundwater monitoring wells were not installed where 5 feet or more of Omadi Shale comprised the uppermost bedrock unit. "O" monitoring wells are completed in the overbank fines of the Platte River Valley and "E" are completed as a secondary well within either the shallow or intermediate zones. Figure 2-3 presents the typical monitoring well depth intervals and designations.

The depths of the shallow groundwater monitoring wells at the Site range from 31.0 (monitoring well [MW]-54B) feet (ft) below ground surface (bgs) to 100 ft bgs (MW-123B) in the Todd Valley, and from 7 feet bgs (MW-105O) to 33 feet bgs (MW-115B) in the Platte River alluvial valley.

Intermediate groundwater monitoring wells range in depth from 46 ft bgs (MW-156A) to 156 ft bgs (MW-25A) in the Todd Valley, and from 29 ft bgs (MW-109B) to 51 ft bgs (MW-38A) in the Platte River alluvial valley.

Deep groundwater monitoring wells at the Site range in depth from 75 ft bgs (MW-86D) to 169 ft bgs (MW-25D) in the Todd Valley, and from 49 ft bgs (MW-158D) to 64 ft bgs (MW-38D) in the Platte River alluvial valley.

2.3 Site Hydrogeology

The hydrogeology of the Site consists of three major alluvial aquifers: (1) the Todd Valley aquifer, (2) the Platte Valley aquifer, and (3) the Wahoo Valley aquifer; and one minor aquifer, the till Uplands aquifer. All four aquifers are underlain by the Omadi Formation, except where the Omadi is absent and the subcrop consists of Pennsylvanian strata near the Ashland well field (Lincoln Water System). The Omadi Formation forms a relatively impermeable base to the alluvial aquifer system. The aquifers are further discussed within the *2008 Groundwater Model Update Operable Unit No. 2 (Groundwater) Former Nebraska Ordnance Plant Mead, Nebraska* (URS, 2009b).

Three aquitards are present at the site: the Pennsylvanian shales, the Omadi Shale, and the Platte River aquitards.

The water-bearing portions of the unconsolidated material in the Todd Valley are generally divided into an upper fine sand unit (12 to 77 ft thick) and a lower sand and gravel unit (17.5 to 72 ft thick). The upper sand unit is overlain by 4 to 23 ft of Peoria Loess. The unconsolidated material in the Platte River Valley ranges in thickness from 39 to 49 ft. Overbank silts and clays ranging from 10 to 17 ft thick overlie the Platte River alluvial sands and gravels.

The potentiometric surface of the Todd Valley slopes toward the south-southeast. A local zone of groundwater discharge is located along the western side of the Platte River floodplain in the southeastern portion of the Site. East of Johnson Creek, the potentiometric surface of the Platte River alluvial aquifer slopes to the south, approximately parallel to the Platte River Valley. Depths to groundwater in the Platte Valley range upwards to 10 ft bgs. In some areas, artesian conditions exist.

2.3.1 Hydrogeology – 2010

During the 2010 monitoring events, water levels were measured and recorded in 432 of 464 Site wells. Water levels recorded during the monitoring events at monitoring wells, observation wells, piezometers, and extraction wells are presented in Table 2-2.

The water level data were used to prepare groundwater potentiometric surface contour maps for the intermediate zone of the Site aquifer system. Historically the shallow and intermediate potentiometric surfaces have had essentially the same flow direction and gradient (southeast); therefore, only the intermediate potentiometric surfaces were produced for this report. The Site-Wide potentiometric surfaces calculated from the March 2010, August 2010, and October 2010 intermediate zone water level measurements are presented on Figure 2-4. The groundwater flow directions and horizontal gradients for March 2010, August 2010, and October 2010 are presented in Table 2-3 and are similar to historical groundwater flow directions and horizontal gradients.

Groundwater data were contoured automatically using Surfer® by Golden Software using a kreiging algorithm. The water level measurements and other regional water levels also were

used to calibrate the site groundwater model and to support containment evaluations. A cone of depression in the water table created around each extraction well is verified by observation well measurements; however, cones of depression are not always depicted on the larger potentiometric surface maps because of scale, steep gradients, and the selected contour interval.

Site-Wide monitoring well groundwater elevations recorded during 2010 were higher compared to those measured during 2009 monitoring events. Site-Wide monitoring well groundwater elevations recorded during March, August, and October 2010 were an average of 0.06 ft, 0.73 ft, and 1.04 ft higher than to those measured during their respective 2009 monitoring events. Figure 2-5 presents a comparison of the August 2009 and August 2010 potentiometric surfaces.

Vertical gradients were calculated from the water levels recorded at Site monitoring well clusters if either the shallow and intermediate levels were measured or the intermediate and deep water levels were measured during the March 2010, August 2010 and October 2010 monitoring events. The number of monitoring well clusters for which the vertical gradient was calculated and their associated flow directions are presented in Table 2-4.

Downward flow presents a potential pathway for OU2 ROD COCs to migrate into lower portions of an aquifer. Upward flow presents a potential pathway for OU2 ROD COCs to migrate to the surface and possibly to nearby creeks. However, the vertical gradient at a particular location is a better indication of the potential vertical flow between aquifers. The vertical gradient ($\boldsymbol{i}_v$) is calculated by dividing the difference in water levels (ΔWLs) of two zones by the vertical distance between the centers of the screened intervals (h):

$$\boldsymbol{i}_v = {}^{\Delta \mathrm{WLs}}/_{h}$$

Monitoring well clusters with vertical gradients that exceeded 0.02 (positive or negative) during the March 2010, August 2010 and October 2010 monitoring events are presented on Figures 2-6. The vertical gradient values are presented in Table 2-5. A positive vertical gradient indicates downward flow and a negative vertical gradient indicates upward flow as presented in Table 2-6.

In some instances, a significant vertical gradient at well clusters may be caused by pumping of a nearby extraction well, water supply well, or irrigation well.

3.0 SUMMARY OF 2010 GROUNDWATER MONITORING WELL SAMPLING EVENTS

This section presents the background of the groundwater monitoring well program, modifications of the well network, groundwater field sample collection activities and the analytical results for the five 2010 monitoring well sampling events at the Site. Any exceptions to the planned GMP monitoring well sampling events are also discussed in this section. The results of the five 2010 sampling events are summarized by well type, as defined in the 2010 GMP Plan, and results of a 2010 statistical analyses and graphical presentation are discussed. Figure 3-1 and 3-2 present the well locations with TCE and RDX detections, respectively, from the 2010 sampling events that are above or below the associated Final Target Groundwater Cleanup Goals. The contaminant plume depictions shown on figures in this 2010 annual report illustrate their approximate areas based upon the 2008 plume depictions.

3.1 Background of the Monitoring Well Program

The groundwater monitoring well network for the Site is shown on Figure 1-2. Monitoring well locations were originally established based on regional groundwater flow (generally towards the south and southeast); historical information concerning operations and disposal practices of the Site; the results of the *Supplemental Remedial Investigation/Feasibility Study, Operable Unit No. 1* (SEC Donohue, 1992) soil investigation; and the results of the *Remedial Investigation Report* (Woodward-Clyde, 1993a). Subsequent monitoring wells have been installed to provide early detection for nearby residences and/or potential loss of containment around and in between extraction wells.

In general, well screen intervals and nomenclature for wells installed adhere to the following:

- MW-B: Shallow (bottom 10 feet of the Pleistocene fine sand);
- MW-A: Intermediate (bottom 10 feet of the Pleistocene sand and gravel); and
- MW-D: Deep (5 feet length near the upper Cretaceous Omadi sandstone [bedrock]).
- MW-O: Completed in the overbank fines of the Platte River Valley
- MW-E: Completed as a secondary well within either the shallow or intermediate zones.

Some exceptions to this nomenclature exist. MW-12A through MW-15A, installed during the Confirmation Study (USACE-CENWK, 1989), were arbitrarily assigned an "A" designation even though they are shallow monitoring wells screened across the water table. These monitoring wells were abandoned in late 2010. Monitoring well clusters MW-16 through MW-20 follow a different nomenclature system where shallow wells are designated "C," intermediate wells are designated “B”, and deep wells are designated "A".

Sampling of the Site monitoring wells was first conducted in support of the August 1992 *Remedial Investigation Report* (Woodward-Clyde, 1993a). Periodic groundwater monitoring continued from 1992 through 2000 and from 2003 through 2010. Groundwater samples were not collected for analysis of contaminants between January 2001 and December 2002; hydraulic data only were collected from selected groundwater monitoring wells as part of the Operations and Maintenance program. Collection of monitoring well samples resumed in January 2003 (as a make-up event for the 2002 GMP).

A complete data review was conducted to evaluate the sampling locations, frequency, and analyses proposed for the 2010 GMP. A discussion of the rationale for the resulting sampling locations, frequencies, and analyses is presented in the *Site-Wide Work Plan* (ECC, 2009). The wells selected for sampling during 2010 and their sampling frequencies are listed in the Final 2010 Groundwater Monitoring Program Plan as updates to the *Site-Wide Work Plan* (ECC, 2009a). Based on the 2010 GMP plan, a total of 258 individual monitoring wells were scheduled to be sampled throughout the Site, which resulted in 115 monitoring well clusters or locations sampled.

3.2 Modifications to the Groundwater Monitoring Well Network

The 2010 GMP plan identified 324 individual, active monitoring wells within the Site groundwater monitoring well network. Thirty-eight new monitoring wells were installed during 2010 and are identified in Figure 3-3. During 2010, a total of 33 monitoring wells were deemed unnecessary and abandoned as presented in the *Aquifer Characterization Report, Operable Unit No. 2 (Groundwater, Former Nebraska Ordnance Plant, Mead, Nebraska* (ECC, 2011c). The rationale for each monitoring well installed or abandoned is documented in the *Aquifer Characterization Work Plan, Operable Unit No. 2 (Groundwater, Former Nebraska Ordnance Plant, Mead, Nebraska* (ECC, 2010f). In general, the new wells will be used to monitor the plume concentrations, to monitor the potential shift of plume axis, to replace perimeter and/or compliance wells, and to monitor the potential migration of higher concentrations of contaminants into the Wahoo Valley aquifer. Installation details for the monitoring wells installed in 2010 are presented in the *Aquifer Characterization Report* (ECC, 2011c).

3.3 Field Sampling

Detailed sampling procedures for the collection of groundwater samples from the Site monitoring wells are described in the *Site-Wide Work Plan* (ECC, 2009). Sampling rationale tables, included in the *Site-Wide Work Plan* (ECC, 2009), are updated annually. A total of 263 of the 324 active wells and three non-program wells were sampled during 2010 as illustrated in Figure 1-2, which included five additional monitoring wells as discussed below. A total of 115 monitoring well locations were included in the 2010 GMP. The sampling for 2010 occurred as planned with the following exceptions:

First Quarter

- Nine locations (associated with MW-133, MW-134, and MW-135) scheduled for VOC analysis were not sampled because the associated focused extraction well (FEW) 15 was not fully operational at the time.

- In November 2009, the Metropolitan Utilities District (M.U.D) detected TCE in three groundwater monitoring wells and RDX in one groundwater monitoring well located to the east of the Site. These three M.U.D non-program monitoring wells were sampled on a quarterly basis during 2010 as a precautionary measure.
- Two additional samples were added (MW-55A and MW55B) in response to the detections in the M.U.D. monitoring wells.

Second Quarter

- Nine locations (associated with MW-133, MW-134, and MW-135) scheduled for VOC analysis were not sampled because the associated FEW 15 was not fully operational at the time.
- Three M.U.D. non-program monitoring wells were sampled during the Second Quarter 2010 sampling event.

Third Quarter

- Nine locations (associated with MW-133, MW-134, and MW-135) scheduled for VOC analysis were not sampled because the associated FEW 15 was not fully operational at the time.
- MW-20A, MW-20B, MW-102D, and MW-103D were scheduled for explosives and VOCs; however, only the volatile sample was collected from these locations because there was insufficient sample volume to collect for explosive analysis.
- Three M.U.D. non-program monitoring wells were sampled during the Third Quarter 2010 sampling event.

Fourth Quarter

- Three M.U.D. non-program monitoring wells were sampled during the Fourth Quarter 2010 sampling event.

3.4 Analytical Results for the 2010 Monitoring Well Sampling Events

This section presents the analytical results for the monitoring wells sampled in 2010 during both the quarterly and baseline sampling events. The discussion of results is primarily focused on TCE and RDX. Although seven COCs were identified in the OU2 ROD, TCE and RDX were selected as the primary two indicator analytes due to their concentration profiles, with TCE indicating the VOCs in Site groundwater, and RDX indicating explosive compounds in Site groundwater. TCE and RDX detections are compared to the Final Target Groundwater Cleanup Goals of 5 µg/L and 2 µg/L, respectively. Appendix D provides results for all site specific compounds including the additional COCs results and TCE and RDX results for all monitoring wells sampled during 2010. Additional COCs and other site specific compounds were detected in samples collected during the 2010 sampling events and are discussed in the sections below. Field and QC samples were collected as planned with the exceptions noted in Section 3.3. The QCSRs identifies the type and frequency of QC samples collected for the five Site-Wide 2010 monitoring well sampling events.

Discussion of monitoring well results for COCs are presented in terms of the following categories defined in the 2010 Groundwater Monitoring Program Plan:

- Perimeter monitoring wells;
- Compliance monitoring wells;
- Interior Plume monitoring wells in LL1 contaminant plume;
- Interior Plume monitoring wells in the LL2 and LL3 contaminant plumes;
- Interior Plume monitoring wells in LL4 contaminant plume, which includes the landfill and AMA areas;
- Focused Extraction monitoring wells at the FEW-11, FEW-14, and FEW-15 sites;
- Upgradient, Sidegradient and Downgradient monitoring wells; and
- Non-program monitoring wells.

A discussion of the rationale for the resulting sampling frequencies and analyses is presented in the *Site-Wide Work Plan* (ECC, 2009). Appendix A presents the historical trend charts for all monitoring wells with four or more data points. Appendix D presents a summary of the 2010 monitoring well sample results for the baseline and each quarterly sampling event for VOCs and explosive compounds.

3.4.1 Baseline Monitoring Well Analytical Results

A total of 38 monitoring wells were installed and sampled in 2010 as part of the baseline monitoring well sampling event. These wells were again sampled in the Fourth Quarter. The rationale for each monitoring well installed in 2010 is documented in the *Aquifer Characterization Work Plan* (ECC, 2010f). The results from sampling the baseline monitoring wells are also incorporated into the appropriate sections herein by well type.

Figure 3-3 presents the baseline monitoring well locations. The analytical results from 2010 Baseline monitoring wells are presented in Table 3-1, with results greater than the Final Target Groundwater Cleanup Goals shaded.

Ground water samples from all the monitoring wells were collected on September 23 and 24, 2010 using passive sampling technology. Low-flow sampling was also conducted at approximately 10% of the locations (monitoring well locations MW-153 and MW-154) on September 21, 2010 for a comparison of the low-flow sampling results versus passive sampling results. Table 3-2 presents the results from both the low flow and passive sampling results. The *Passive Groundwater Sampling Study Report, Operable Unit No. 2 (Groundwater), Former Nebraska Ordnance Plant, Mead, Nebraska* (ECC, 2010g) presents an analysis of the passive sampling versus low flow sampling techniques for 2010.

3.4.2 Perimeter Monitoring Well Analytical Results for the 2010 Sampling Events

Perimeter wells are located immediately south and east of the defined groundwater contamination exceeding the TCE and/or RDX Final Target Groundwater Cleanup Goals (plumes). These wells, in combination with the compliance wells discussed in Section 3.4.3, are sampled and evaluated to verify compliance with the ROD requirement for maintaining

containment of the plumes. A total of 68 monitoring wells sampled in 2010 were classified as perimeter monitoring wells. MW-147 and MW-159 are new perimeter monitoring wells installed in 2010 and are located south of the LL2 plume and northeast of the LL4 plume, respectively. Figure 3-4 presents the locations of the perimeter monitoring wells. The results from the 2010 perimeter monitoring wells samples are presented in Table 3-3. Further evaluation of perimeter monitoring wells data will be presented in the 2010 Annual Containment Evaluation Report scheduled to be submitted in August 2011. None of the perimeter wells had detections exceeding the Final Target Groundwater Cleanup Goals.

Five perimeter monitoring well locations had TCE detected during the 2010 quarterly sampling events. With the exception of a perimeter well installed in 2010 (MW-147), the TCE detections were from perimeter wells near the LL4 plume:

- MW-103 is located northeast of the LL4 plume and had TCE detected at 0.41 J µg/L in the shallow well screen interval in the Third Quarter 2010. "J" means estimated.
- MW-112 and MW-113 are located southeast of the LL4 plume and had TCE detected in the Third Quarter 2010 sampling event. MW-112 had TCE detections of 0.66 J µg/L and 0.37J µg/L in the intermediate and shallow well screen intervals, respectively. MW-113 had detections of 0.58 J, 0.38 J and 0.30 J µg/L for the shallow, intermediate and deep well screen intervals, respectively. TCE was not detected in MW-112 or MW-113 in any of the well screen intervals during the other three sampling events of 2010.
- MW-116 is located south of the LL4 plume and had TCE detected at 1.2 µg/L in the intermediate well screen interval during the Fourth Quarter 2010.
- MW-147 is located south of the LL2 plume and had TCE detected at 0.42J µg/L in the deep well screen interval during the Fourth Quarter 2010.

Seven perimeter well locations had RDX detection during at least one quarter in 2010. Two of the well locations are east of the LL4 plume, and the other five locations are south of the LL2 and LL3 plumes:

- MW-83 and MW-84 are located south of the LL2 plume and had RDX detected at 0.3 µg/L or less in the intermediate well screen interval in each of the four quarterly sampling events. RDX was also detected at 0.051 J µg/L in the shallow well screen interval of MW-83 during the First Quarter 2010.
- MW-35 MW-85, and MW-118, are located south of the LL3 plume and had detections of RDX in both the shallow and intermediate well screen intervals in each of the four quarterly sampling events. The RDX detections were less than 1 µg/L, except for those from the shallow well screen interval for MW-85, which varied from 1.2 to 1.4 µg/L during the 2010 quarterly sampling events.
- MW-106 and MW-107 are located east of the LL4 plume and had RDX detections in each of the quarterly sampling events, except the Fourth Quarter. Both MW-106 and MW-107 had detections ranging from 0.039 J µg/L to 0.18 J µg/L in the intermediate well screen interval. MW-106 had detections ranging from 0.095 J µg/L to 0.11 J µg/L in the deep well screen interval. Neither well location had RDX detections in the shallow well screen interval or in the 2010 Fourth Quarter sampling event.

3.4.3 Compliance Monitoring Well Analytical Results for the 2010 Sampling Events

Compliance wells are located immediately downgradient of the defined groundwater contamination (plumes). These wells, in combination with the perimeter wells previously discussed in Section 3.4.2, help verify hydraulic containment of the plumes, as required by the ROD. A total of 36 monitoring wells sampled in 2010 were classified as compliance monitoring wells. MW-158 was installed in 2010 as a new compliance monitoring well and is located south of the LL4 plume. Figure 3-4 presents the locations of the compliance monitoring wells. The results from the 2010 compliance monitoring wells samples are presented in Table 3-4. Further evaluation of compliance monitoring wells data will be presented in the 2010 Annual Containment Evaluation Report scheduled to be submitted in August 2011. None of the compliance wells had detections exceeding the Final Target Groundwater Cleanup Goals.

During the Third Quarter 2010 sampling event, two compliance well locations (MW-20 and MW-62) had unusual TCE detections. These compliance wells were re-sampled during the Fourth Quarter 2010. MW-20 is located southwest of the LL2 plume, and MW-62 is located south of the LL4 plume.

- MW-20 had TCE detected at 1.8 µg/L in the Third Quarter and at 0.71 J µg/L in the Fourth Quarter 2010 within the shallow well screen interval; however, TCE was not detected in the First Quarter in this well.
- MW-62 had TCE detected in the Third Quarter at 2.7 µg/L and at 1.4 µg/L within the intermediate and deep well screen intervals, respectively. The shallow screen interval associated with MW-62 also had a detection of 0.99 J µg/L in the Third Quarter 2010. TCE was not detected in any of the screen intervals at MW-62 in the First or Fourth Quarter sampling events

During the 2010 quarterly sampling events, three compliance well locations, south and southeast of the LL2 and LL3 plumes had RDX detections. One other compliance monitoring well location, MW-61, had a RDX detection and is located southwest of the LL1 plume.

- MW-86 had RDX detected at 1.3 µg/L in the deep well screen interval in both the First and Third Quarter 2010. MW-86 also had RDX detected in the intermediate well screen interval at 0.46 and at 0.41 µg/L in the First and Third Quarters, respectively.
- MW-100 had RDX detected in the shallow, intermediate and deep screen intervals. The RDX detected was less than 0.1 µg/L, with the exception of the detected results from the shallow and intermediate screen intervals in the First Quarter 2010 that had detections of 0.11 J µg/L and 0.17 J µg/L, respectively.
- RDX was also detected in MW-97B at 0.039 J µg/L during First Quarter 2010 and in MW-61A at 0.46 µg/L during Third Quarter 2010.

3.4.4 Interior Load Line 1 Plume Monitoring Well Analytical Results for the 2010 Sampling Events

The interior plume monitoring wells within the LL1 contaminant plumes are evaluated to monitor changes within the contaminant plumes and to identify any significant increases in contaminant concentrations upgradient of the extraction wells. A total of 25 monitoring wells sampled in 2010 were classified as interior LL1 plume monitoring wells during the 2010 sampling events. Figure 3-5 presents the locations of the interior LL1 plume monitoring wells. Groundwater sample results from the 2010 Interior LL1 plume monitoring wells are presented in Table 3-5.

Based on the statistical analysis performed as described in Section 1.5, one Interior LL1 Plume Monitoring Well locations (MW-24B) represented a statistically significant change (increase) from historical results (Table 1-1). This statistically significant increase and other increasing or decreasing trends identified by the statistical analysis are incorporated into the discussion below:

- MW-21 is upgradient of FEW-11 and was sampled to monitor TCE and RDX concentration trends. MW-21D, the deepest well screen interval, had a TCE detection of 31 µg/L in the First Quarter and a detection of 250 µg/L in the Third Quarter of 2010. Both detections are consistent with the range of historical detections in MW-21D since the startup of FEW-11.
- MW-24 and MW-141 are also upgradient of FEW-11 and were sampled to monitor TCE and RDX concentration trends. MW- 141 was installed in 2010 and is upgradient of MW-24.
- As shown in the concentration trend chart located in Appendix A, RDX concentrations in MW-24 were less than 2 µg/L since the well was installed over 15 years ago, however a steady increase in RDX has been observed over the past 5 years. The RDX increase in MW-24B, the shallow well screen interval, showed a statistically significant increase during the First and Third Quarters of 2010 compared to the mean calculated from all historical data. The shallow and intermediate well screen intervals for MW-141 had RDX detections of 29 µg/L or greater in both 2010 sampling events. TCE detected in the intermediate well screen interval (MW-24A) decreased from 1,200 µg/L in the First Quarter to 930 µg/L in the Third Quarter. However, when compared to all historic results from this location an increasing concentration trend remains evident. The TCE detections in the shallow, intermediate and deep well screen intervals of MW-141 were all greater than 5,000 µg/L.

- MW-90 was sampled to monitor the TCE and RDX concentrations within the LL1 plume upgradient of EW-12. All of the well screened intervals at MW-90 have had increasing TCE detections since installation. The TCE results from the deep well screen interval (MW-90D) showed a statistically significant increase from the mean calculated from historical data during the First Quarter of 2010. The TCE detected in the intermediate and deep well screen intervals during the First Quarter sampling event was more than double that detected in the Third Quarter sampling event in 2010. With the exception of the First Quarter MW-90D TCE detections, results for this well location were consistent with recent detections. The RDX detection of 0.26 µg/L in the shallow well screen interval at MW-90 shows an increasing concentration trend for this location. Since MW-90 is located upgradient of EW-12, increases in contaminate concentrations are expected as the plume migrates downgradient towards EW-12. Therefore no changes to the containment system were deemed necessary. MW-124 and MW-125 were sampled to monitor TCE and RDX within the centroid of the LL1 plume. RDX decreased from 2009 in the shallow well screen interval at both MW-124 and MW-125. TCE concentrations detected in all well screen intervals of MW-124 decreased from the 2009 samples. No change in TCE concentrations were observed in the shallow and intermediate well screen intervals at MW-125, however TCE in the deep interval decreased from 100 µg/L in 2009 to 5.5 µg/L in 2010. These results indicate that the centroid of the LL1 RDX plume has shifted slightly to the west to follow a more southerly path towards FEW-11. Further evaluation of these results will be conducted in the Bi-Annual Groundwater Model Report.
- MW-127 was sampled to monitor TCE and RDX within the upper portion of LL1 plume. TCE at MW-127 continued to decrease during 2010 in the shallow and intermediate (E) well screen intervals, results stayed consistent with the 2009 sample data in the intermediate (A) well screen interval. A decrease in concentration at this location is expected as the plume moves downgradient from this area.

3.4.5 Interior Load Line 2 and Load Line 3 Plume Monitoring Well Analytical Results for the 2010 Sampling Events

The interior plume monitoring wells within the LL2 and LL3 contaminant plumes are evaluated to monitor changes within the plumes and to identify any significant increases in contaminant concentrations upgradient of the extraction wells. A total of 12 monitoring wells within the LL2 plume and 11 monitoring wells within the LL3 plume were sampled in 2010. MW-144 and MW-145 were new well locations installed in the LL2 plume in 2010. MW-143, MW-148, MW-149 and MW-150 were new well locations installed in the LL3 plume in 2010. Figure 3-6 presents the locations of the interior LL2 and LL3 plume monitoring wells. Groundwater sample results from the LL2 and LL3 interior plume monitoring wells are presented in Table 3-6.

The results from the 2010 Interior LL2 Plume Monitoring Well locations did not represent a statistically significantly change (increase or decrease) from historical results (Table 1-1); however, the following increase or decreases were noted within Interior LL2 Plume Monitoring Wells.

MW-29 is sampled to monitor the small isolated western portion of the LL2 RDX plume. The 2010 RDX result of 2.8 µg/L represents a decreasing concentration trend for this sampling location. MW-32 is sampled to monitor RDX concentrations as the contamination moves downgradient towards extraction wells EW-7 and EW-9. The 2010 results indicate that the concentrations have increased steadily in the shallow and deep intervals and remained stable in the intermediate interval. Increases in concentration at this location are expected as the contamination moves downgradient thus no changes to the containment system were deemed necessary. MW-65B is sampled to ensure minimal vertical migration beneath the high concentration portion of the LL2 RDX plume, which was confirmed by the 2010 RDX detection that was half that of historical detection results.

The 2010 LL3 plume monitoring well locations did not have any statistically significant increase or decrease from historical results (Table 1-1); however, the following were noted:

- MW-99 is sampled to monitor RDX concentrations upgradient of EW-3, EW-4 and EW-16 and indicated a continued decrease of RDX in each of the three well screen intervals. Decreasing concentrations are expected at this location as FEW-14 begins to pull the plume to the southwest.
- MW-130 is sampled to monitor sidegradent of the LL3 RDX Plume near EW-16. The RDX detection in the shallow and deep well screen intervals of MW-130 remained below the Final Target Groundwater Cleanup Goals and consistent with historic detections. RDX in the intermediate well screen interval showed a decreasing concentration trend compared to previous results and has remained below the Final Target Groundwater Cleanup Goals since Fourth Quarter 2009. Decreasing concentrations are also expected at this location as FEW-14 begins to pull the plume to the southwest.

3.4.6 Interior Load Line 4 Plume Monitoring Well Analytical Results for the 2010 Sampling Events

The interior plume monitoring wells within the LL4 plume are evaluated to monitor changes within the plumes and to identify any significant increases in contaminant concentrations upgradient of the extraction wells. The LL4 plume also includes the AMA and landfill areas. A total of seven new well locations were established in 2010 and included MW-151, MW-152, MW-153, MW-154, MW-155, MW-156, and MW-157. A total of 65 monitoring wells sampled in 2010 were classified as interior LL4 plume monitoring wells during the five 2010 sampling events. Figure 3-7 presents the locations of the interior LL4 plume monitoring wells. Groundwater sample results from the 2010 Interior LL4 plume monitoring wells are presented in Table 3-7.

The TCE results from locations MW-09 and MW-43 represented a statistically significantly increase from historical results. In addition, the following increase and/or decrease in TCE and/or RDX were noted.

- MW-09 sampling results are used to delineate the western boundary of AMA TCE plume. The shallow well screen interval at this location showed a statistically significant increase for TCE in the Third Quarter compared to the calculated mean for all historic results with a detection of 410 µg/L. Concentration increases at this location are expected as the AMA TCE plume shifts to the southwest as it migrates downgradient towards the extraction wells.
- MW-18C, the shallow well screen interval, continues to indicate a decreasing concentration trend for both TCE and RDX. Concentration decreases at this location are expected as the AMA TCE plume shifts to the southwest as it migrates downgradient towards the extraction wells.
- MW-40 is sampled to monitor concentration trends in the AMA TCE Plume. The shallow well screen interval at this location showed a decreasing concentration trend for TCE. Concentration decreases at this location are also expected as the AMA TCE plume shifts to the southwest as it migrates downgradient towards the extraction wells.
- MW-42 is sampled to monitor LL4 RDX plume and inside western edge of the AMA TCE plume. The intermediate well screen continues to indicate an increase in TCE over the past three years as shown in the trend chart located in Appendix A. This increase is expected as the AMA TCE plume shifts to the southwest as it migrates downgradient towards the extraction wells. Based on the statistically analysis, RDX has an increasing concentration trend for both the intermediate and deep well screen intervals compared to the calculated mean of the historical data, however; the RDX detections are similar to detected results observed in these wells since 2005. RDX concentrations at this location are predicted to remain at the currently observed levels for several years and eventually begin to decrease as the LL4 RDX plumes migrates downgradient towards the extraction wells.
- MW-43 is sampled to monitor the separation of the eastern portion of TCE plume downgradient from the Landfill Area and AMA plume and potential southwest shift of RDX plume originating from landfill. First Quarter 2010 TCE results from the deep well screen interval at this location indicated a statistically significant increase compared to the calculated mean from historic results. Both TCE and RDX have decreased in the shallow and intermediate zones at this location while the deep well increased in concentrations. This is likely due to nearby irrigation wells screened into the bedrock in this area.
- MW-104 is sampled to monitor the concentration and location of AMA plume axis in Platte Valley. The shallow and intermediate well screen interval samples show a continued decrease in TCE concentrations, but an increasing concentration trend for RDX. RDX concentrations at this location are predicted to increase in concentration as the LL4 RDX plumes migrates downgradient.

- MW-109 is sampled to monitor the LL4 plume concentration near Johnson Creek. Both RDX and TCE show a decreasing concentration trend within the shallow and intermediate well screen intervals, as shown in the trend charts presented in Appendix A. A decrease in concentration of both TCE and RDX is expected in this area as the plume shifts to the southwest as it migrates downgradient towards EW-1.
- MW-111 is monitored to evaluate the eastern side of the LL4 TCE plume between Johnson and Clear Creeks. TCE in both the shallow and intermediate well screen intervals continue to show a slight decreasing concentration trend. A decrease in concentration of TCE is also expected in this area as the plume shifts to the southwest as it migrates downgradient towards EW-1.

3.4.7 Monitoring Wells Associated with Focused Extraction Well Analytical Results for the 2010 Sampling Events

A total of 31 monitoring wells sampled in 2010 were classified as monitoring wells associated with focused extraction wells (FEW-11, FEW-14 and FEW-15) during the 2010 sampling events. These wells monitor concentrations of RDX and/or TCE in the vicinity of the respective focused extraction wells. Figure 3-8 presents the locations of the monitoring wells associated with focused extraction wells. The focused extraction monitoring wells monitor focused extraction well performance and identify any significant increases in contaminant concentrations in the vicinity of these extraction wells.

Groundwater sample results for the focused extraction monitoring wells are presented in Table 3-8. Evaluation of focused extraction well performance will be presented in the 2010 Annual Containment Evaluation Report scheduled to be submitted in June 2011. Results from two focused extraction monitoring well locations represented a statistically significant change (increase) from historical results. In addition, the following increase and/or decrease in TCE and/or RDX were noted:

- TCE and RDX were detected in the shallow well screen intervals at MW-120, MW-121, MW-122, and MW-123, which are all associated with FEW-11 located in the LL1 plume. With the exception of MW-120, TCE and RDX are decreasing as shown on the trend charts in Appendix A. The statistical analysis specifically identified a decreasing concentration trend for TCE in the shallow well screen interval for MW-123. Detections associated with MW-120 are similar to historical results.
- MW-128, MW-131 and MW-132 are associated with FEW-14, located within the LL3 plume. MW-128 and MW-131 have a decreasing RDX concentration trend in the shallow and intermediate well screen intervals. The statistical analysis specifically identified a decreasing concentration trend for RDX in the shallow well screen interval for MW-128. Other RDX detections are consistent with historical results for these locations.
- MW-133, MW-134, and MW-135 are located within the AMA plume and are associated with FEW-15. The TCE detected in the intermediate well screen intervals for MW-133 and MW-134 decreased from historical detections. MW-135 has a decreasing TCE concentration trend in both the shallow and deep well screen interval, as shown in the trend charts in Appendix A.

3.4.8 Upgradient, Sidegradient and Downgradient Monitoring Wells Analytical Results for the 2010 Sampling Events

A total of 45 monitoring wells were sampled in 2010 that were classified as upgradient, sidegradient and downgradient monitoring wells. These wells are used to evaluate concentrations of RDX and/or TCE located upgradient, sidegradient and downgradient of the various contaminant plumes. Figure 3-9 presents the locations of the upgradient, sidegradient and downgradient monitoring wells. Groundwater sample results from the 2010 monitoring wells located upgradient, sidegradient and downgradient of the various contaminant plumes are presented in Table 3-9.

TCE detections in three of these wells exceeded the Final Target Groundwater Cleanup Goal during the quarterly sampling events, however RDX did not. The results from the 2010 monitoring well locations did not represent a statistically significant change (increase or decrease) from historical results. However, the following increase and/or decrease in TCE and/or RDX, including exceedances of the Final Target Groundwater Cleanup Goals were noted.

- MW-25 and MW-89 had TCE detected in one screen interval that exceeded the Final Target Groundwater Cleanup Goal of 5 µg/L. RDX was detected in MW-89, however, it did not exceed the associated Final Target Groundwater Cleanup Goal of 2 µg/L. MW-25 is east of the LL1 plume, and MW-89 is immediately west of the LL1 plume. Both locations are upgradient of the extraction wells, therefore no changes to the containment system were deemed necessary.
- MW-80 had a detection of TCE in the shallow well screen intervals that showed a decreasing concentration trend for TCE. This well is located immediately downgradient of the LL1 Plume. Decreasing concentrations of TCE are expected at this location due to the pumping of EW-12.
- MW-33 showed decreasing concentration trends for RDX in the shallow and intermediate well screen intervals. This well is located on the eastern side of the LL3 Plume. Decreasing concentrations of RDX are expected at this location as the LL3 plume shifts to the southwest as it migrates downgradient towards extraction wells EW-3, EW-4, FEW-14, and EW-16.

3.4.9 Non-Program Monitoring Well Sampling

Three non-program monitoring wells were sampled during the Second, Third and Fourth Quarter 2010 sampling events In November 2009, the M.U.D. sampled groundwater monitoring wells, that are not part of GMP, located between the former NOP site and the Platte West Well Field. Three of these wells had inconsistent TCE results and one had inconsistent RDX results.

CENWK and M.U.D. collected groundwater samples from these wells in February 2010 and the results did not indicate any detectable levels of contamination related to the Site. During the First Quarter 2010 GMP sampling event samples from 32 monitoring wells in the vicinity of the M.U.D. wells were collected. This included wells located on the perimeter of the groundwater plume. Results from these 32 wells indicated no detectable levels of contamination related to the site, however; the three M.U.D non-program monitoring wells were sampled on a quarterly basis through 2010 as a precautionary measure. During the 2010 sampling of the M.U.D wells, neither RDX nor TCE were detected. Table 3-10 presents the non-program monitoring well results.

4.0 SUMMARY OF 2010 WATER SUPPLY WELL SAMPLING EVENTS

This section presents the background for the water supply well sampling program, field sampling procedures, and a summary of the analytical results for four 2010 quarterly water supply well sampling events. Additionally, a graphical presentation of the water supply well results and a summary of the water supply well data including 2010 results are presented. A list of the water supply well locations, the planned and actual sample collection, and analyses for the four 2010 water supply well sampling events are presented in the 2010 Water Supply Wells QCSRs.

4.1 Background of the Water Supply Sampling Program

Results of remedial investigations (Woodward-Clyde, 1993a and Woodward-Clyde, 1993b) at the Site revealed the presence of groundwater contamination in redeveloped areas and a baseline risk assessment indicated the potential for impacts to human health. The OU2 ROD identifies major components of the selected remedy, including the monitoring of groundwater elevations and water quality, and requires an alternate potable water supply to local groundwater users whose water supply at any point contained RDX and/or TCE exceeding the Lifetime Health Advisory (HA) Level and/or the maximum contaminant level (MCL). These MCLs and/or HAs are the same as the OU2 ROD Final Target Groundwater Cleanup Goals for TCE and RDX discussed in Section 2.0.

Procedures were implemented to ensure that residents with private water supply wells located in the vicinity of the Site would not consume groundwater with RDX and/or TCE exceeding the associated Final Target Groundwater Cleanup Goals. As required by the OU2 ROD, the residential groundwater quality is regularly monitored in the vicinity of the Site to protect individual well owners.

In an effort to determine whether any new residences or water users are present at the Site that may be impacted by contamination, the following activities are also performed throughout the year:

- Survey of the State of Nebraska Well Registry Database for any new potable water wells in the vicinity of the Site;
- A review of the Building Permit Applications submitted to the Saunders County Building Department; and
- Regular visual inspections of the local area to determine if any new potable water wells have been installed.

Copies of the State of Nebraska Well Registry Database survey results and the Saunders County Building Department Building Permit Applications for 2010 that identify new wells for possible inclusion in the water supply well sampling program have been reviewed. Documents containing any residential information are not presented in this Report due to privacy concerns.

In addition to the periodic surveys of the State of Nebraska Well Registry Database for new potable wells in the vicinity of the Site and reviews of the Saunders County Building Department for Building Permit Applications, a reconnaissance of the area is routinely performed during quarterly monitoring well and water supply well sampling events. The reconnaissance is

conducted Site-Wide and is intended to identify new construction sites or activities that may indicate the installation of new potable water wells, especially within the known groundwater contaminant plumes and one mile downgradient or sidegradient of the groundwater contaminant plume boundaries. As a result of these searches, water supply well (WSW)-116 and WSW-117 were added to the monitoring program in 2010. WSW-116 was added to the program during the First Quarter 2010, and WSW-117 was added during the Third Quarter 2010.

Seventy-eight (78) water supply wells were monitored during 2010 at or within close proximity to the Site (Figure 2-1). Site-Wide water supply well monitoring has generally been performed at least semi-annually, and in some cases quarterly, from December 1993 to December 2010. These wells are located within one mile of the groundwater contaminant plume extents (exceeding Final Target Groundwater Cleanup Goals) along the east and south boundaries. Water supply wells are grouped into two general categories: 1) domestic and university supply wells, and 2) domestic wells with granular activated carbon (GAC) units. No university water supply locations are equipped with CENWK-supplied GAC units. Domestic and university supply wells are sampled at a location convenient to the owner, which is either an interior faucet, an outside spigot, or at the wellhead. Five non-program water supply wells were sampled due to the detections of TCE and RDX in M.U.D. monitoring wells detailed in Section 4.4.9.

Domestic wells WSW-52A, WSW-52C, WSW-53, and WSW-54 are equipped with GAC units and are sampled semi-annually. Samples are collected from sampling ports located after the primary carbon treatment vessel prior to the secondary carbon treatment vessel to monitor for treatment effectiveness (discussed in Section 5.0 - Summary of 2010 AWSS). Samples are also collected from sampling ports before the primary treatment vessel to monitor groundwater contaminant levels prior to treatment. Samples collected before the primary carbon treatment vessel have a "-B" in the sample name. For example, sample "WSW-052A" is collected after treatment, and sample "WSW-052A-B" is collected before treatment. TCE and RDX untreated and post-treatment results are shown on Table 4-1.

Water for university facilities located on the Site are supplied via a distribution system fed by a network of wells (University of Nebraska Lincoln Field Lab [UNFL] wells). The wells are operated by UNL at various times of the year depending on the need for water to conduct routine operations, to irrigate, and to water livestock.

4.2 Field Sampling

Detailed sampling and quality assurance procedures for the collection of groundwater samples from water supply wells were performed in accordance with the *Site-Wide Work Plan* (ECC, 2009). Sampling rationale and selection tables, included in the *Site-Wide Work Plan*, are updated annually. The sampling for 2010 occurred as planned with the following exceptions:

First Quarter

- Six additional sample locations, WSW-063, WSW-064, WSW-090, WSW-093, WSW-102, and WSW-111 were added to the sampling schedule in response to TCE detections in the M.U.D groundwater monitoring wells discussed in Section 3.4.9. One other location, WSW-116, was a new location added to the program as discussed in Section 4.1.

Third Quarter

- Six additional water supply wells (WSW-117, WSW-118, WSW-119, WSW-120, WSW-121 and WSW-122) were sampled during the Third Quarter 2010 sampling event. WSW-117 is a new location added to the sampling program during the sampling event, as discussed in Section 4.1. WSW-118 through WSW-122 are non-program wells sampled in response to TCE detections in the M.U.D groundwater monitoring wells discussed in Section 3.4.9.
- UNFL-27 was listed on the sampling schedule, however this university well location was not operable during the Third Quarter 2010 water supply well sampling event and was not sampled.

4.3 Analytical Results for the 2010 Water Supply Well Sampling Events

This section presents the analytical results from the water supply wells for the four 2010 quarterly events. Detections of RDX and TCE are compared to the associated chemical-specific remediation goals or Final Target Groundwater Cleanup Goals. Four quarterly QCSRs list the planned and actual sampling and analysis activities for the 2010 water supply well sampling events. An Excel spreadsheet of searchable historical detections of TCE and RDX for the water supply wells is provided as Appendix C. Figures 4-1 and 4-2 displays the water supply wells sampled during the 2010 water supply well sampling events and presents the detected TCE and RDX results. The 2010 water supply well results, including additional site specific compounds, are presented in Table 4-2.

RDX was detected in the pre-treatment samples collected from WSWs 52A-B, 53-B and 54-B. TCE was detected in the pretreatment samples collected from WSWs 52C-B, 53-B and 54-B. RDX was also detected in WSWs-29, 29A, 50A, 50B, 51, 51A, 112, and 114, however these detections were all below the Final Target Groundwater Cleanup Goal. TCE was also detected below the Final Target Groundwater Cleanup Goal in WSW-51A during the First and Third Quarters of 2010.

Vinyl chloride (a non COC) was detected in a sampled collected from WSW-93 in August 2010. A sample and field duplicate were collected from this location again in September 2010. Vinyl chloride was not detected in the September 2010 samples. Results for all site specific compounds and COCs are presented in Table 4-2.

4.4 Graphical Presentation of TCE and RDX Water Supply Well Data

TCE and RDX historical data are graphically presented in Appendix A for water supply wells sampled during the 2010 sampling events that have four or more data points. The graphs presented in Appendix A show how the concentrations of TCE and RDX have varied through time for each of the presented water supply wells.

4.5 Water Supply Well Summary

During the 2010 water supply well sampling events, water supply wells were sampled to assess the drinking water supply of residents within the Site and surrounding area as part of the regularly scheduled water supply well sampling events, and to assess the drinking water supplies in an area extending approximately one mile south and east (downgradient and cross gradient, respectively) beyond the extent of the contaminant plumes.

A historical overview of TCE and RDX detections associated with the water supply wells from January 1992 through December 2010 is presented in the historical data spreadsheet found in Appendix C. Figures 4-1 and 4-2 presents the water supply well locations and TCE and RDX detections, respectively. The following water supply wells had detected results above the Final Target Groundwater Cleanup Goals for TCE and/or RDX of 5 µg/L and 2 µg/L respectively:

- WSW-52C is located approximately 2 miles southeast of the LL4 structures and within the TCE plume boundary. TCE was detected in the untreated samples collected before the GAC unit from WSW-52C-B in the First Quarter and Third Quarter 2010 at 140 µg/L and 110 µg/L, respectively. RDX was not detected in the untreated samples during the First and Third Quarters of 2010. Treated samples from WSW-52C were non-detect for TCE and RDX during the First and Third Quarter 2010 water supply well sampling events.
- WSW-53 is located approximately 2 miles southeast of the LL4 structures. TCE was detected in the untreated samples collected before the GAC unit from WSW-53-B during the Third Quarter 2010 water supply well sampling event at 5.4 µg/L. RDX was detected in the untreated samples collected before the GAC unit from WSW-53-B during the First and Third Quarter of 2010 at 8.6 and 10.9 µg/L, respectively. Treated samples from WSW-53 were non-detect for TCE and RDX during the First and Third Quarter 2010 water supply well sampling events.

- WSW-54 is located approximately 2 miles southeast of the LL4 structures. TCE was detected in the untreated samples collected before the GAC unit from WSW-54-B during the First and Third Quarter 2010 water supply well sampling events at 10 µg/L and 15 µg/L, respectively. RDX was detected in the untreated samples collected before the GAC unit from WSW-54-B during the First and Third quarter 2010 water supply well sampling events at 2.6 µg/L and 3.5 µg/L, respectively. Treated samples from WSW-54 were non-detect for TCE and RDX during the First and Third Quarter 2010 water supply well sampling events.

4.5.1 Non-Program Water Supply Well Sampling

As discussed in Section 4.1 and 4.2, five non-program water supply wells were sampled during the Third Quarter 2010 sampling event. These water supply wells are not a part of the water supply well program, however, they were sampled in 2010 as a precautionary measure due to the detections in the M.U.D. monitoring wells, discussed in Section 3.4.9. No site specific compounds were detected in the non-program water supply wells sampled during 2010 as shown on Table 4-3.

5.0 SUMMARY OF 2010 ALTERNATE WATER SUPPLY PROGRAM

This section presents the background and 2010 efforts for the AWSS program. Well owners included in the AWSS are provided with either bottled potable water or GAC units (or both) to treat the water from their potable water wells. Field samples are collected from these locations as part of the water supply well sampling program described in Section 4.0. A list of the AWSS sampling locations along with the planned and actual sample collection, and analyses for the four 2010 water supply well sampling events are presented in the 2010 water supply well QCSRs.

5.1 Background of the Alternate Water Supply Program

In accordance with the requirements of the OU2 ROD, local groundwater users whose potable water supply at any time exceeded the Final Target Groundwater Cleanup Goals for RDX or TCE are provided with bottled potable water and/or GAC units to treat the water from their potable wells, based upon the preference of the resident. Concentrations of TCE and RDX in treated and untreated groundwater at the residences are monitored as part of the Water Supply Well Program discussed in Section 4.0. A total of five residences are part of the AWSS program and are associated with WSW-50B, WSW-52A, WSW-52C, WSW-53, and WSW-54. No new residences were added to the AWSS program, based on the results of the 2010 water supply well sampling. Alternate water supplies are provided in the form of GAC treatment vessels and/or bottled water. GAC treatment vessels are present at the residences associated with WSW-52A, WSW-52C, WSW-53, and WSW-54. Details of GAC treatment unit replacement for the affected well owners is provided in Section 5.2.1 below. Bottled water is provided to residences associated with WSW-52A, WSW-52C and WSW-50B.

Analytical results from the 2010 water supply well sampling events indicated that the residential GAC treatment units effectively treated TCE and RDX impacted groundwater used for drinking water supplies. The concentration of TCE is reduced to less than the MCL for TCE (5 μg/L), and the concentration of RDX is reduced to less than the Lifetime HA Level for RDX (2 μg/L).

5.2 Field Activities

The GAC treatment systems are maintained and sampled in accordance with the *Site-Wide Work Plan* (ECC, 2009). Sampling ports are located before the primary vessel in the influent line and between the primary and secondary vessels at each system. Semi-annual water samples are collected from these sampling ports to provide untreated and post-treatment TCE and RDX analytical results used to verify that each system is performing to specifications. TCE and RDX untreated and post-treatment results are shown on Table 4-1.

5.2.1 Granular Activated Carbon Treatment System Changeout

To minimize the potential for bacterial fouling and possible premature breakthrough, the AWSS program has established a maintenance program in which the GAC vessels are replaced annually (or sooner, if RDX or TCE is detected in the GAC-treated sample). Vessels may be changed more frequently as determined by contaminant concentrations and water throughput volumes.

Several replacement carbon vessels are stored at the Site Main Groundwater Treatment Plant to facilitate response to any GAC system problem and scheduled maintenance activities. The 2010 schedule of GAC vessel replacements and other maintenance activities are presented in Table 5-1.

6.0 SUMMARY OF 2010 SURFACE WATER SAMPLING EVENTS

This section presents the background of the surface water sampling program, field sample collection activities and the analytical results for the four 2010 quarterly surface water sampling events conducted at the Site. This section also presents the graphical presentation of historical surface water results and a summary of the 2010 surface water data. Figure 6-1 presents the surface water sample locations with TCE and RDX result ranges.

6.1 Background of the Surface Water Sampling Program

Thirteen surface water locations were monitored quarterly during 2010 at or within close proximity to the Site (Figure 1-2). Surface water sampling locations for 2010 were collected as planned and consistent with previous GMP sampling events with the exception that no samples were collected at surface water (SW)-01, SW-15 and SW-16 locations. SW-01 located along Johnson Creek upgradient of the Lower Platte North Natural Resources District Reservoir has been historically non-detect and was removed from the GMP in 2008. SW-15 and SW-16 were removed from the surface water sampling program during the Fourth Quarter of 2009. SW-15 and SW-16 surface water locations were added and collected in conjunction with past drain tile sampling events that were also removed from the program at the same time.

Surface water sampling locations were selected for one or more of the following specific objectives:

- To establish upstream background surface water concentrations;
- To continue monitoring locations where COCs have been detected in past sampling events; and
- To monitor locations where discharge of COCs from contaminant plumes into surface water bodies is possible.

6.2 Field Sampling

Detailed sampling and quality assurance procedures for the collection of surface water samples are described in the *Site-Wide Work Plan* (ECC, 2009). All field and QC samples were collected as planned.

6.3 Analytical Results for the 2010 Surface Water Sampling Event

The analytical results discussed below include four quarterly sampling events during 2010. TCE results are compared to the NDEQ surface water criteria (chronic) "for the protection of aquatic life and their uses (e.g., fish consumption)," which is 810 μg/L (NDEQ, 2009). This source does not establish a value for RDX. Therefore, RDX analytical results for surface water samples are compared to the Final Effluent Limitations Monitoring Requirements provided by the State of Nebraska on October 5, 1998, which is 100 μg/L (NDEQ, 1998). TCE and RDX were not detected at levels exceeding these criteria in any surface water samples collected in 2010. Figure 6-1 presents the detected results for TCE and RDX. Table 6-1 presents the analytical results for all site specific compounds and COCs from the 2010 surface water sampling events.

6.4 Graphical Presentation of TCE and RDX Surface Water Data

TCE and RDX historical data are graphically presented in Appendix A for the surface water locations sampled during the 2010 surface water sampling events. These graphs show how the concentrations of TCE and RDX have varied over time for each of the surface water locations presented. TCE did not exceed 810 µg/L and RDX did not exceed 100 µg/L at any surface water locations in 2010.

6.5 Surface Water Summary

Surface water samples were collected and analyzed during the four quarterly sampling events in 2010 to identify potential groundwater contaminant migration into nearby streams. TCE and RDX analytical results for surface water samples were below the established criteria discussed in Section 7.3. During the four surface water 2010 sampling events, TCE concentrations were below 810 µg/L, and RDX concentrations were below 100 µg/L. The interactive spreadsheet presented as Appendix C also summarizes the TCE and RDX detections from previous surface water sampling events conducted since November 2004.

As shown in Figure 6-1, three surface water locations were sampled along Silver Creek (SCW-04, -05 and -06) in 2010 and four surface water locations were sampled along Clear Creek (SW-09, -11, -12, and -13) during four quarterly sampling events. Four surface water locations were sampled in 2010 along Johnson Creek (SW-05, -06, -08 and -10) and one Artesian location approximately 3/8 mile west of Johnson Creek was sampled quarterly during 2010. Surface water location SKI-01 was sampled and analyzed during the Fourth Quarter 2010 sampling event, and was non-detect for the COCs.

- The highest concentrations of TCE and RDX in surface water were detected in the Artesian well. TCE was detected between 110 and 140 µg/L, and RDX was detected between 2.1 and 2.4 µg/L, which are similar results and the detection range identified in 2009.
- Clear Creek sample locations SW-12 and SW-13 had RDX and TCE detections in each of the four quarters. At sample location SW-12, RDX ranged from 0.28 to 0.58 µg/L and TCE ranged from 2.3 to 4.9 µg/L. At sample location SW-13, RDX ranged from 0.24 to 0.50 µg/L and TCE ranged from 1.6 to 3.6 µg/L.
- Johnson Creek sample locations SW-06, -08 and -10 all had RDX and TCE detected in at least one quarter. Sample location SW-05 had RDX detected in one quarter. Sample location SW-05 had RDX detected at 0.044 µg/L in the Third Quarter 2010 only. Sample location SW-08 had RDX and TCE detected in all four quarterly sampling events. Sample locations SW-08 and SW-10 had the highest RDX and TCE detections along Johnson Creek. The highest RDX and TCE detections at SW-08 occurred in the Fourth Quarter and were 1.4 µg/L and 25 µg/L, respectively. The highest RDX detections at SW-10 occurred in the Third Quarter and was 1.3 µg/L and TCE was detected at this location during the Fourth Quarter at 17 µg/L.

7.0 SUMMARY

The objectives of the Site-Wide GMP consist of the following:

1. To monitor and evaluate potential changes in the concentrations of COCs defined in the *Record of Decision*, (Woodward-Clyde, 1996);
2. To monitor and evaluate the concentration of contaminant groundwater plumes; and
3. To provide data for evaluating whether contaminant plume(s) are being contained by the groundwater extraction well network.

Objective 1 was completed with a total of 263 of the 324 active wells being sampled during 2010. Statistically significant changes and trending analysis for TCE and RDX were evaluated and have been summarized in Table 1-1. Appendix A contains the trend charts generated with historical data and Appendix B contains the statistical analysis that indicates statistically significant increases or decreases based on comparing the 2010 data points individually to the mean calculated using all previous well data in concentrations of TCE and RDX. These trends will be further evaluated within the 2010 Groundwater Model Update scheduled to be submitted in May 2011.

Objective 2 was completed through monitoring of the interior plume monitoring wells, pre-treatment sampling locations from water supply wells located within the plumes, and monitoring wells associated with focused extraction wells. Table 1-1 presents results for statistically significant increases and trend analysis for TCE and RDX. Four samples that showed statistically significant increases were from interior plume monitoring wells and one sample was from a pre-treatment water supply well location. Twelve samples that showed statistically decreasing trends were from interior plume monitoring wells and three samples were from a pre-treatment water supply well location.

Objective 3 was completed through the sampling of perimeter and compliance wells throughout the Site. No perimeter or compliance monitoring well detections exceeded the Final Target Groundwater Cleanup Goals during the 2010 monitoring well sampling events. The 2010 Annual Containment Evaluation Report scheduled to be submitted in August of 2011 will further evaluate these wells to ensure this ROD objective is met.

7.1 Summary of Groundwater Monitoring Well Program

At the start of 2010, the Site groundwater monitoring well network consisted of 324 monitoring wells.

- Thirty-eight new monitoring wells were installed during 2010.
- A total of 33 monitoring wells were abandoned during 2010.

Sampling of the groundwater monitoring wells occurred as planned; except for the non-program monitoring wells sampled due to the M.U.D. detections of TCE, as discussed in Section 3.4.9. Also, three monitoring well locations (MW-133,-134 and -135) were not sampled in the first three quarters of 2010 because FEW-15 was not fully operational in 2010; however, these wells

were sampled in the Fourth Quarter 2010. Insufficient volume at three well locations (MW-20, MW-102 and MW-103) resulted in only VOC analysis of the groundwater and elimination of the planned explosive analysis.

The 38 newly installed wells were sampled during the baseline monitoring well sampling event in September 2010 and Fourth Quarter 2010. The samples were collected using passive sampling technology, with approximately 10% of the samples also collected using low-flow sampling. The results for the samples were incorporated into the discussion regarding the 2010 analytical results by well type as discussed in Section 3.4.1. The *Passive Groundwater Sampling Study Report* (ECC, 2010g) evaluates the use of the passive sampling technology against the use of low-flow sampling techniques.

Analytical data from perimeter and compliance wells helped verify hydraulic containment of the plumes, as required by the ROD, because none of these wells had detections exceeding the Final Target Groundwater Cleanup Goals. MW-147 and MW-159 were installed as new perimeter wells in 2010 and are located south of the LL2 plume and east of the LL4 plume, respectively. MW-158 was a new compliance well installed in 2010 and is located south of the LL4 plume. The results from the perimeter and compliance wells will be further evaluated in the *Aquifer Characterization Report* (ECC, 2011c).

Interior plume monitoring wells are evaluated to monitor changes within the plumes and to identify any statistically significant increases in contaminant concentrations upgradient of the extraction well network. Statistically significant increases in TCE were observed at four interior plume monitoring well locations. Statistically significant increases in RDX were observed at one monitoring well location and one pre-treatment water supply well location. Statistically decreases in TCE were observed at nine interior plume monitoring well locations and two pre-treatment water supply wells. Statistically decreases in RDX were observed in three monitoring well locations and one pre-treatment water supply well location.

Upgradient, sidegradient and downgradient monitoring wells were sampled to evaluate the associated areas for each of the plume COCs. Though RDX was detected in some of the monitoring wells, only TCE had detections that exceeded the Final Target Groundwater Cleanup Goals. The two well locations that exceeded the TCE cleanup goal are located immediately west of the LL1 plume. These monitoring well results are similar to those from previous sampling events.

7.2 Summary of Water Supply Well Sampling

As required by the OU2 ROD, procedures were implemented to ensure that residents located in the vicinity of the Site with private water supply wells would not consume groundwater with TCE or RDX exceeding the Final Target Groundwater Cleanup Goals. Data searches and visual site reconnaissance was conducted to determine any new residences or water users that may be impacted by the Site. Two new water supply wells were added to the monitoring program in 2010 based on this evaluation, but no new residences were added to the AWSS program. The UNFL-27 well location was not operational during the Third Quarter sampling event; therefore, it was not sampled. RDX and TCE were detected above their associated Final Target

Groundwater Cleanup Goals in pre-treatment samples at WSW-53-B and 54-B. Results from the pre-treatment sample collected from WSW-53-B showed a statistically significant increase for RDX. TCE was also detected above the Final Target Groundwater Cleanup Goal at WSW-52C-B. These water supply wells each have a GAC unit as part of the AWSS, and bottled water is provided to the residence at WSW-52C. After the GAC treatment, RDX and TCE were not detected in the water, which confirms that the residential GAC treatment units are effectively treating the groundwater used for drinking water.

7.3 Summary of Surface Water Sampling

Surface water samples were collected from one flowing artesian well, one lake, and 11 locations along Johnson Creek, Clear Creek and Silver Creek during the 2010 quarterly sampling events to identify potential groundwater contaminant migration into nearby streams. During the quarterly surface water 2010 sampling events, all TCE concentrations were below the comparison criteria of 810 μg/L and all RDX concentrations were below the comparison criteria of 100 μg/L as described in Section 6.3.

7.4 2010 Groundwater Monitoring Program Data Validation

A Data Quality Assessment of the 2010 GMP analytical data is included as Appendix D to this report. In accordance with the *Site-Wide Work Plan* (ECC, 2009), completeness of the data was assessed. Rinsate samples were collected in the field to assess decontamination procedures. Field duplicate samples were collected at a rate of one per 10 samples to assess field collection precision and the consistency and quality of data produced by the laboratory. MS/MSD samples were collected at a rate of one per 20 samples to determine if the sample matrix had any effect on results. Prepared TBs were placed in each cooler containing samples designated for VOC analysis to assess the potential for cross-contamination. During the Fourth Quarter of 2010 Proficiency Test samples were submitted to the laboratory. Results of the Proficiency Test samples are presented in Table 7-1. Sample cooler temperature was determined by measuring the temperature of a field sample at the laboratory with a calibrated infrared thermometer. Data from sampling events were validated in accordance with project required criteria and appropriate qualifiers were assigned to data. Data validation for the Site was performed in accordance with the *Mead Validation Guidelines* (ECC, 2007) which includes an evaluation of holding times, a comparison of both field and laboratory duplicate results, a review of TB results, and an evaluation of other QC measurements reported by the laboratory. The QCSRs present the field data completeness and analytical (acceptable data and quality data) completeness percentages for the GMP sampling events, target goals for completeness percentages, as well as field and analytical data completeness results for the GMP sampling events are presented in the quarterly QCSRs for the GMP program. All target completeness goals for the 2010 GMP sampling events were met.

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TABLES

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List of Abbreviations Acronyms for Tables
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

Term	Definition
µg/L	micrograms per liter
1,2-DCP	1,2-dichloropropane
2,4-DNT	2,4-dinitrotoluene
2ADNT	2-amino-4,6-dinitrotoluene
4ADNT	4-amino-2,6-dinitrotoluene
AMA	Altlas Missile Area
CIS-1,2-DCE	cis-1,2-dichloroethene
COC	contaminant of concern
J	estimated
LL	Load Line
MW	monitoring well
ND	non detect
RDX	hexahydro-1,3,5-trinitro-1,3,5-triazine
SCW	Silver Creek water
SSI	statically significant increase
SW	surface water
TCE	trichloroethene
TNB	1,3,5-trinitrobenzene
TNT	2,4,6-trinitrotoluene
Trans-1,2-DCE	trans-1,2-dichloroethene
VOC	volatile organic compound
WSW	water supply well

All results are reported in µg/L

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Table 1-1
2010 Results of Statistical Analysis
Former Nebraska Ordnance Plant, Mead, Nebraska

WELL		TCE		RDX	
	Location	Trend	SSI 2010 Quarter(s)	Trend	SSI 2010 Quarter(s)
MW-83B	Perimeter			Decreasing	
MW-118A	Perimeter			Increasing	
MW-118B	Perimeter			Increasing	
MW-21A	Interior LL1	Increasing			
MW-21B	Interior LL1	Decreasing			
MW-21D	Interior LL1	Increasing			
MW-24A	Interior LL1	Increasing			
MW-24B	Interior LL1	Increasing			1st and 3rd
MW-90A	Interior LL1	Increasing			
MW-90B	Interior LL1	Increasing		Increasing	
MW-90D	Interior LL1	Increasing	1st		
MW-29A	Interior LL2/LL3			Decreasing	
MW-32B	Interior LL2/LL3			Increasing	
MW-32D	Interior LL2/LL3			Increasing	
MW-130A	Interior LL2/LL3			Decreasing	
MW-9B	Interior LL4/AMA	Increasing	3rd		
MW-18C	Interior LL4/AMA	Decreasing			
MW-40B	Interior LL4/AMA	Decreasing			
MW-42A	Interior LL4/AMA	Increasing		Increasing	
MW-42D	Interior LL4/AMA			Increasing	
MW-43A	Interior LL4/AMA	Increasing			
MW-43B	Interior LL4/AMA	Decreasing			
MW-43D	Interior LL4/AMA	Increasing	1st		
MW-44A	Interior LL4/AMA	Increasing			
MW-44B	Interior LL4/AMA	Increasing			
MW-44D	Interior LL4/AMA	Increasing			
MW-72A	Interior LL4/AMA	Decreasing			
MW-73A	Interior LL4/AMA	Decreasing			
MW-111B	Interior LL4/AMA	Decreasing			
MW-139B	Interior LL4/AMA	Decreasing			
MW-123B	Focused Extraction Well	Decreasing			
MW-128B	Focused Extraction Well			Decreasing	
MW-33A	Sidegradient			Decreasing	
MW-33B	Sidegradient			Decreasing	
MW-89B	Sidegradient	Increasing			
MW-80A	Downgradient	Decreasing			
MW-80B	Downgradient	Decreasing			
WSW-52C-B	NA	Decreasing			
WSW-53-B	NA			Increasing	1st and 3rd
WSW-54-B	NA	Decreasing		Decreasing	

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Table 2-1
Final Target Groundwater Cleanup Goals
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

COCs	Final Target Groundwater Cleanup Goal (μg/L)
Volatile Organic Compounds	
Methylene chloride	5
1,2-Dichloropropane	5
TCE	5
Explosive Compounds	
Trinitrobenzene (TNB)	0.778
2,4-Dinitrotoluene (2,4-DNT)	1.24
RDX	2
2,4,6-Trinitrotoluene (TNT)	2

Notes: *Source: Woodward-Clyde, Mead ROD, 1996*
Italics = Indicator compounds used to define groundwater contamination at the former Nebraska Ordnance Plant

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Table 2-2
Water Level Measurements
March 2010, August 2010 and October 2010 Monitoring Well Sampling Events
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample ID	Zone Designation	Top of Casing (TOC) Elevation (fteet AMSL)	Date	Depth to Water from TOC (feet) March 2010	Groundwater Elevation (ft AMSL) March 2010	Date	Depth to Water from TOC (feet) August 2010	Groundwater Elevation (ft AMSL) August 2010	Date	Depth to Water from TOC (feet) October 2010	Groundwater Elevation (ft AMSL) October 2010
EW-1		1079.43	3/29/10	9.13	1068.20	8/26/10	10.73	1068.70	10/29/10	11.63	1067.80
EW-2		1104.28	3/29/10	24.08	1080.20	NM	NM	NM	NM	NM	NM
EW-3		1150.01	3/29/10	72.91	1078.00	8/26/10	72.31	1077.70	10/29/10	71.91	1078.10
EW-4		1148.68	3/29/10	83.88	1064.80	8/26/10	83.88	1064.80	10/29/10	83.88	1064.80
EW-5		1153.98	3/29/10	58.28	1095.70	NM	NM	NM	NM	NM	NM
EW-6		1147.98	3/29/10	56.58	1090.20	8/26/10	56.58	1091.40	10/29/10	56.58	1091.40
EW-7		1148.38	3/29/10	72.58	1075.80	8/26/10	72.58	1075.80	10/29/10	71.08	1077.30
EW-8		1160.39	NM	NM	NM	NM	NM	NM	NM	NM	NM
EW-9		1154.67	3/29/10	76.87	1077.80	8/26/10	75.87	1078.80	10/29/10	75.27	1079.40
EW-10		1150.64	3/29/10	53.94	1075.00	8/26/10	51.64	1099.00	10/29/10	51.24	1099.40
FEW-11		1162.77	3/29/10	66.37	1098.70	8/26/10	65.17	1097.60	10/29/10	65.77	1097.00
EW-12		1113.72	3/29/10	66.39	1069.54	8/26/10	74.78	1038.94	10/29/10	76.08	1037.64
EW-13		NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
FEW-14		1155.99	3/29/10	82.29	1073.40	8/26/10	82.29	1073.70	10/29/10	81.79	1074.20
FEW-15		1169.64	3/29/10	44.44	1125.20	8/26/10	55.14	1114.50	10/29/10	58.14	1111.50
EW-16		1146.97	3/29/10	68.07	1079.40	8/26/10	68.67	1078.30	10/29/10	67.97	1079.00
MW-01A	Intermediate	1176.88	3/29/10	42.90	1133.98	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-01B	Shallow	1176.73	3/29/10	42.91	1133.82	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-02A	Intermediate	1174.77	3/29/10	41.40	1133.37	8/26/10	40.83	1133.94	10/29/10	40.11	1134.66
MW-02B	Shallow	1175.18	3/29/10	41.80	1133.38	8/26/10	41.26	1133.92	10/29/10	40.51	1134.67
MW-03A	Intermediate	1177.06	3/29/10	44.55	1132.51	8/26/10	44.10	1132.96	10/29/10	43.37	1133.69
MW-03B	Shallow	1177.23	3/29/10	44.65	1132.58	8/26/10	44.24	1132.99	10/29/10	43.51	1133.72
MW-04A	Intermediate	1168.73	3/29/10	37.81	1130.92	8/26/10	36.72	1132.01	10/29/10	36.25	1132.48
MW-04B	Shallow	1168.85	3/29/10	37.96	1130.89	8/26/10	36.85	1132.00	10/29/10	36.36	1132.49
MW-05A	Intermediate	1168.12	3/29/10	35.97	1132.15	8/26/10	34.90	1133.22	10/29/10	34.56	1133.56
MW-05B	Shallow	1168.18	3/29/10	36.18	1132.00	8/26/10	35.01	1133.17	10/29/10	34.68	1133.50
MW-06A	Intermediate	1165.46	3/29/10	40.01	1125.45	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-06B	Shallow	1165.61	3/29/10	40.19	1125.42	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-07A	Intermediate	1164.85	3/29/10	39.03	1125.82	8/26/10	38.61	1126.24	10/29/10	38.07	1126.78
MW-07B	Shallow	1164.64	3/29/10	38.79	1125.85	8/26/10	38.38	1126.26	10/29/10	37.83	1126.81
MW-08A	Intermediate	1165.92	3/29/10	47.07	1118.85	8/26/10	46.47	1119.45	10/29/10	46.47	1119.45
MW-08B	Shallow	1165.92	3/29/10	47.09	1118.83	8/26/10	46.43	1119.49	10/29/10	46.49	1119.43
MW-09A	Intermediate	1171.46	3/29/10	52.20	1119.26	8/26/10	51.62	1119.84	10/29/10	51.58	1119.88
MW-09B	Shallow	1171.60	3/29/10	52.14	1119.46	8/26/10	51.57	1120.03	10/29/10	51.54	1120.06

Table 2-2
Water Level Measurements
March 2010, August 2010 and October 2010 Monitoring Well Sampling Events
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample ID	Zone Designation	Top of Casing (TOC) Elevation (fteet AMSL)	Date	Depth to Water from TOC (feet) March 2010	Groundwater Elevation (ft AMSL) March 2010	Date	Depth to Water from TOC (feet) August 2010	Groundwater Elevation (ft AMSL) August 2010	Date	Depth to Water from TOC (feet) October 2010	Groundwater Elevation (ft AMSL) October 2010
MW-09D	Deep	1171.28	3/29/10	51.93	1119.35	8/26/10	51.38	1119.90	10/29/10	51.37	1119.91
MW-10A	Intermediate	1150.35	3/29/10	40.05	1110.30	8/26/10	40.04	1110.31	10/29/10	39.83	1110.52
MW-10B	Shallow	1150.31	3/29/10	40.00	1110.31	8/26/10	39.97	1110.34	10/29/10	39.76	1110.55
MW-11	Intermediate	1153.22	3/29/10	27.68	1125.54	8/26/10	27.30	1125.92	10/29/10	27.98	1125.24
MW-12	Shallow	1178.55	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-13	Shallow	1175.20	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-14	Shallow	1178.94	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-15	Shallow	1170.06	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-16B	Intermediate	1188.68	3/29/10	35.45	1153.23	8/26/10	34.20	1154.48	10/29/10	35.54	1153.14
MW-16C	Shallow	1189.40	3/29/10	36.22	1153.18	8/26/10	34.97	1154.43	10/29/10	34.30	1155.10
MW-17A	Deep	1128.60	3/29/10	8.17	1120.43	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-17B	Intermediate	1128.50	3/29/10	8.15	1120.35	8/26/10	8.02	1120.48	10/29/10	7.88	1120.62
MW-17C	Shallow	1128.40	3/29/10	6.70	1121.70	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-18A	Deep	1145.43	3/29/10	42.69	1102.74	8/26/10	41.71	1103.72	10/29/10	41.08	1104.35
MW-18B	Intermediate	1145.57	3/29/10	43.20	1102.37	8/26/10	42.19	1103.38	10/29/10	41.53	1104.04
MW-18C	Shallow	1146.05	3/29/10	40.60	1105.45	8/26/10	39.10	1106.95	10/29/10	38.75	1107.30
MW-19A	Deep	1158.65	3/29/10	11.72	1146.93	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-19B	Intermediate	1158.59	3/29/10	11.91	1146.68	8/26/10	10.98	1147.61	10/29/10	10.60	1147.99
MW-19C	Shallow	1159.26	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-20A	Deep	1160.42	3/29/10	61.41	1099.01	8/26/10	60.26	1100.16	10/29/10	59.72	1100.70
MW-20B	Intermediate	1160.29	3/29/10	61.03	1099.26	8/26/10	60.11	1100.18	10/29/10	59.57	1100.72
MW-20C	Shallow	1160.29	3/29/10	59.76	1100.53	8/26/10	58.45	1101.84	10/29/10	57.89	1102.40
MW-21A	Intermediate	1165.63	3/29/10	37.75	1127.88	8/26/10	36.94	1128.69	10/29/10	36.44	1129.19
MW-21B	Shallow	1165.59	3/29/10	37.75	1127.84	8/26/10	36.94	1128.65	10/29/10	36.49	1129.10
MW-21D	Deep	1165.57	3/29/10	37.74	1127.83	8/26/10	36.96	1128.61	10/29/10	36.48	1129.09
MW-22A	Intermediate	1176.78	3/29/10	32.67	1144.11	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-22B	Shallow	1176.67	3/29/10	32.69	1143.98	8/26/10	31.61	1145.06	10/29/10	31.10	1145.57
MW-23A	Intermediate	1173.56	3/29/10	32.22	1141.34	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-23B	Shallow	1173.93	3/29/10	32.59	1141.34	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-24A	Intermediate	1163.41	3/29/10	42.51	1120.90	8/26/10	41.53	1121.88	10/29/10	41.25	1122.16
MW-24B	Deep	1163.46	3/29/10	42.32	1121.14	8/26/10	41.31	1122.15	10/29/10	40.99	1122.47
MW-25A	Intermediate	1175.25	3/29/10	46.05	1129.20	8/26/10	45.70	1129.55	10/29/10	44.72	1130.53
MW-25B	Shallow	1174.71	3/29/10	45.45	1129.26	NM	45.11	1129.60	10/29/10	44.16	1130.55
MW-25D	Deep	1175.46	3/29/10	46.30	1129.16	8/26/10	46.04	1129.42	10/29/10	45.04	1130.42

Table 2-2
Water Level Measurements
March 2010, August 2010 and October 2010 Monitoring Well Sampling Events
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample ID	Zone Designation	Top of Casing (TOC) Elevation (fteet AMSL)	Date	Depth to Water from TOC (feet) March 2010	Groundwater Elevation (ft AMSL) March 2010	Date	Depth to Water from TOC (feet) August 2010	Groundwater Elevation (ft AMSL) August 2010	Date	Depth to Water from TOC (feet) October 2010	Groundwater Elevation (ft AMSL) October 2010
MW-26A	Intermediate	1174.15	3/29/10	34.82	1139.33	8/26/10	33.92	1140.23	10/29/10	33.31	1140.84
MW-26B	Shallow	1174.16	3/29/10	34.86	1139.30	8/26/10	34.02	1140.14	10/29/10	33.36	1140.80
MW-27A	Intermediate	1176.05	3/29/10	39.89	1136.16	NM	38.70	1137.35	10/29/10	38.34	1137.71
MW-27B	Shallow	1176.06	3/29/10	39.63	1136.43	NM	38.71	1137.35	10/29/10	38.29	1137.77
MW-28A	Intermediate	1172.22	3/29/10	52.34	1119.88	8/26/10	51.70	1120.52	10/29/10	51.22	1121.00
MW-28B	Shallow	1172.52	3/29/10	52.91	1119.61	8/26/10	52.31	1120.21	10/29/10	51.81	1120.71
MW-28D	Deep	1171.99	3/29/10	52.12	1119.87	8/26/10	51.53	1120.46	10/29/10	50.98	1121.01
MW-29A	Intermediate	1160.06	3/29/10	52.15	1107.91	8/26/10	50.44	1109.62	10/29/10	49.98	1110.08
MW-29B	Shallow	1161.03	3/29/10	51.24	1109.79	8/26/10	51.35	1109.68	10/29/10	50.91	1110.12
MW-30A	Intermediate	1168.55	3/29/10	40.64	1127.91	NM	NM	NM	10/29/10	39.61	1128.94
MW-30B	Shallow	1168.38	3/29/10	40.46	1127.92	NM	NM	NM	10/29/10	39.42	1128.96
MW-31A	Intermediate	1167.38	3/29/10	49.98	1117.40	8/26/10	48.95	1118.43	10/29/10	48.57	1118.81
MW-31B	Shallow	1166.95	3/29/10	50.14	1116.81	8/26/10	49.12	1117.83	10/29/10	48.72	1118.23
MW-32A	Intermediate	1154.17	3/29/10	50.86	1103.31	8/26/10	49.92	1104.25	10/29/10	49.41	1104.76
MW-32B	Shallow	1154.10	3/29/10	50.78	1103.32	8/26/10	49.88	1104.22	10/29/10	49.36	1104.74
MW-32D	Deep	1154.02	3/29/10	50.71	1103.31	8/26/10	49.81	1104.21	10/29/10	49.30	1104.72
MW-33A	Intermediate	1160.32	3/29/10	52.91	1107.41	8/26/10	52.45	1107.87	10/29/10	52.13	1108.19
MW-33B	Shallow	1160.37	3/29/10	52.96	1107.41	8/26/10	52.47	1107.90	10/29/10	52.07	1108.30
MW-33D	Deep	1160.24	NM	NM	NM	8/26/10	52.21	1108.03	10/29/10	51.82	1108.42
MW-34A	Intermediate	1156.79	3/29/10	61.40	1095.39	8/26/10	60.82	1095.97	10/29/10	60.30	1096.49
MW-34B	Shallow	1157.00	3/29/10	61.61	1095.39	8/26/10	60.87	1096.13	10/29/10	60.50	1096.50
MW-34D	Deep	1156.73	3/29/10	61.40	1095.33	8/26/10	60.82	1095.91	10/29/10	60.25	1096.48
MW-35A	Intermediate	1139.81	3/29/10	55.41	1084.40	8/26/10	54.57	1085.24	10/29/10	54.10	1085.71
MW-35B	Shallow	1139.57	3/29/10	55.30	1084.27	8/26/10	54.37	1085.20	10/29/10	53.90	1085.67
MW-35D	Deep	1139.67	3/29/10	55.22	1084.45	8/26/10	54.42	1085.25	10/29/10	53.93	1085.74
MW-36A	Intermediate	1076.62	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-36B	Shallow	1076.65	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-36D	Deep	1076.79	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-37A	Intermediate	1085.20	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-37B	Shallow	1085.19	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-37D	Deep	1085.06	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-38A	Intermediate	1082.32	3/29/10	4.75	1077.57	8/26/10	6.24	1076.08	10/29/10	6.42	1075.90
MW-38D	Deep	1081.92	3/29/10	4.30	1077.62	8/26/10	5.80	1076.12	10/29/10	5.97	1075.95
MW-39A	Intermediate	1082.82	3/29/10	2.31	1080.51	8/26/10	4.21	1078.61	10/29/10	4.43	1078.39

Table 2-2
Water Level Measurements
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MW-39D	Deep	1082.95	3/29/10	2.44	1080.51	8/26/10	4.31	1078.64	10/29/10	4.52	1078.43
MW-40A	Intermediate	1172.09	3/29/10	41.19	1130.90	8/26/10	40.69	1131.40	10/29/10	40.57	1131.52
MW-40B	Shallow	1172.34	3/29/10	41.51	1130.83	8/26/10	41.00	1131.34	10/29/10	40.76	1131.58
MW-41A	Intermediate	1168.63	3/29/10	38.30	1130.33	NM	NM	NM	10/29/10	37.58	1131.05
MW-41B	Shallow	1168.68	3/29/10	38.34	1130.34	NM	NM	NM	10/29/10	37.62	1131.06
MW-41D	Deep	1168.61	3/29/10	38.35	1130.26	NM	NM	NM	10/29/10	37.59	1131.02
MW-42A	Intermediate	1146.53	3/29/10	52.75	1093.78	8/26/10	51.20	1095.33	10/29/10	50.84	1095.69
MW-42B	Shallow	1146.64	3/29/10	52.86	1093.78	8/26/10	51.35	1095.29	10/29/10	50.94	1095.70
MW-42D	Deep	1146.20	3/29/10	52.68	1093.52	8/26/10	51.00	1095.20	10/29/10	50.65	1095.55
MW-43A	Intermediate	1142.90	3/29/10	45.34	1097.56	8/26/10	43.94	1098.96	10/29/10	43.39	1099.51
MW-43B	Shallow	1142.74	3/29/10	45.23	1097.51	8/26/10	43.65	1099.09	10/29/10	43.17	1099.57
MW-43D	Deep	1142.95	3/29/10	45.40	1097.55	8/26/10	44.00	1098.95	10/29/10	43.43	1099.52
MW-44A	Intermediate	1093.66	3/29/10	9.43	1084.23	8/26/10	9.02	1084.64	10/29/10	8.72	1084.94
MW-44B	Shallow	1094.14	3/29/10	7.02	1087.12	8/26/10	9.52	1084.62	10/29/10	10.08	1084.06
MW-44D	Deep	1092.43	3/29/10	8.20	1084.23	8/26/10	7.80	1084.63	10/29/10	7.51	1084.92
MW-45A	Intermediate	1081.53	3/29/10	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-45B	Shallow	1081.54	3/29/10	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-45D	Deep	1081.44	3/29/10	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-46A	Intermediate	1082.70	3/29/10	3.12	1079.58	8/26/10	4.38	1078.32	10/29/10	4.22	1078.48
MW-46B	Shallow	1082.81	3/29/10	2.24	1080.57	8/26/10	4.48	1078.33	10/29/10	4.32	1078.49
MW-46D	Deep	1082.65	3/29/10	3.07	1079.58	8/26/10	4.31	1078.34	10/29/10	4.16	1078.49
MW-47A	Intermediate	1201.73	3/29/10	26.99	1174.74	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-47B	Shallow	1201.67	3/29/10	26.87	1174.80	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-52A	Intermediate	1155.22	3/29/10	36.43	1118.79	8/26/10	35.45	1119.77	10/29/10	35.79	1119.43
MW-52B	Shallow	1155.65	3/29/10	37.11	1118.54	8/26/10	36.07	1119.58	10/29/10	36.36	1119.29
MW-53A	Intermediate	1136.36	3/29/10	26.90	1109.46	8/26/10	26.00	1110.36	10/29/10	25.48	1110.88
MW-53B	Shallow	1136.91	3/29/10	25.66	1111.25	8/26/10	24.30	1112.61	10/29/10	24.04	1112.87
MW-54A	Intermediate	1121.58	3/29/10	10.06	1111.52	8/26/10	9.22	1112.36	10/29/10	8.81	1112.77
MW-54B	Shallow	1121.59	3/29/10	7.29	1114.30	8/26/10	6.62	1114.97	10/29/10	6.43	1115.16
MW-55A	Intermediate	1126.49	3/29/10	16.87	1109.62	8/26/10	16.05	1110.44	10/29/10	15.51	1110.98
MW-55B	Shallow	1127.27	3/29/10	17.40	1109.87	8/26/10	16.65	1110.62	10/29/10	16.05	1111.22
MW-56A	Intermediate	1125.96	3/21/10	17.05	1108.91	8/26/10	16.15	1109.81	10/29/10	15.62	1110.34
MW-56B	Shallow	1126.24	3/21/10	15.47	1110.77	8/26/10	14.28	1111.96	10/29/10	14.10	1112.14
MW-57B	Shallow	1196.27	3/21/10	39.83	1156.44	8/26/10	40.54	1155.73	10/29/10	37.95	1158.32

Table 2-2
Water Level Measurements
March 2010, August 2010 and October 2010 Monitoring Well Sampling Events
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample ID	Zone Designation	Top of Casing (TOC) Elevation (fteet AMSL)	Date	Depth to Water from TOC (feet) March 2010	Groundwater Elevation (ft AMSL) March 2010	Date	Depth to Water from TOC (feet) August 2010	Groundwater Elevation (ft AMSL) August 2010	Date	Depth to Water from TOC (feet) October 2010	Groundwater Elevation (ft AMSL) October 2010
MW-60A	Intermediate	1145.83	3/29/10	55.71	1090.12	8/26/10	54.40	1091.43	10/29/10	53.35	1092.48
MW-60B	Shallow	1146.15	3/29/10	56.01	1090.14	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-61A	Intermediate	1108.96	3/29/10	5.71	1103.25	8/26/10	6.23	1102.73	10/29/10	6.21	1102.75
MW-61B	Shallow	1108.96	3/29/10	5.77	1103.19	8/26/10	6.30	1102.66	10/29/10	6.27	1102.69
MW-61D	Deep	1108.96	3/29/10	5.53	1103.43	8/26/10	6.00	1102.96	10/29/10	5.99	1102.97
MW-62A	Intermediate	1078.66	NM	NM	NM	8/26/10	4.18	1074.48	10/29/10	4.22	1074.44
MW-62B	Shallow	1078.57	NM	NM	NM	8/26/10	4.10	1074.47	10/29/10	4.12	1074.45
MW-62D	Deep	1078.89	NM	NM	NM	8/26/10	4.42	1074.47	10/29/10	4.45	1074.44
MW-63B	Shallow	1177.45	3/29/10	19.88	1157.57	8/26/10	25.40	1152.05	10/29/10	25.27	1152.18
MW-64B	Shallow	1144.20	NM	NM	NM	NM	Abandoned	Abandoned	NM	Abandoned	Abandoned
MW-65A	Intermediate	1165.02	3/29/10	35.22	1129.80	8/26/10	33.98	1131.04	10/29/10	33.63	1131.39
MW-65B	Shallow	1165.01	3/29/10	35.24	1129.77	8/26/10	34.01	1131.00	10/29/10	33.69	1131.32
MW-66B	Shallow	1163.08	3/29/10	34.43	1128.65	8/26/10	33.18	1129.90	10/29/10	32.87	1130.21
MW-71B	Shallow	1166.34	3/29/10	36.75	1129.59	8/26/10	35.51	1130.83	10/29/10	35.18	1131.16
MW-72A	Intermediate	1170.37	3/29/10	29.95	1140.42	8/26/10	39.45	1130.92	10/29/10	39.28	1131.09
MW-72B	Shallow	1169.92	3/29/10	29.50	1140.42	8/26/10	38.99	1130.93	10/29/10	38.81	1131.11
MW-73A	Intermediate	1166.95	3/29/10	39.90	1127.05	8/26/10	36.41	1130.54	10/29/10	36.30	1130.65
MW-73B	Shallow	1166.90	3/29/10	36.88	1130.02	8/26/10	36.45	1130.45	10/29/10	36.19	1130.71
MW-74A	Intermediate	1166.94	3/29/10	37.00	1129.94	8/26/10	36.41	1130.53	10/29/10	36.30	1130.64
MW-74B	Shallow	1167.04	3/29/10	36.91	1130.13	8/26/10	36.51	1130.53	10/29/10	36.34	1130.70
MW-75A	Intermediate	1167.13	3/29/10	37.05	1130.08	8/26/10	36.59	1130.54	10/29/10	36.39	1130.74
MW-75B	Shallow	1167.30	3/29/10	37.22	1130.08	8/26/10	36.73	1130.57	10/29/10	36.56	1130.74
MW-76A	Intermediate	1166.24	3/29/10	36.18	1130.06	8/26/10	35.68	1130.56	10/29/10	35.52	1130.72
MW-76B	Shallow	1166.48	3/29/10	36.35	1130.13	8/26/10	35.77	1130.71	10/29/10	35.70	1130.78
MW-77A	Intermediate	1165.73	3/29/10	35.65	1130.08	8/26/10	35.11	1130.62	10/29/10	34.98	1130.75
MW-77B	Shallow	1165.79	3/29/10	35.66	1130.13	8/26/10	35.15	1130.64	10/29/10	35.01	1130.78
MW-78A	Intermediate	1165.27	3/29/10	35.11	1130.16	8/26/10	34.60	1130.67	10/29/10	34.43	1130.84
MW-78B	Shallow	1165.35	3/29/10	35.21	1130.14	8/26/10	34.71	1130.64	10/29/10	34.54	1130.81
MW-79A	Intermediate	1109.34	3/29/10	8.72	1100.62	8/26/10	8.97	1100.37	10/29/10	8.95	1100.39
MW-79B	Shallow	1109.39	3/29/10	8.79	1100.60	8/26/10	9.01	1100.38	10/29/10	9.03	1100.36
MW-80A	Intermediate	1107.43	3/29/10	7.04	1100.39	8/26/10	7.30	1100.13	10/29/10	7.65	1099.78
MW-80B	Shallow	1107.65	3/29/10	7.31	1100.34	8/26/10	7.57	1100.08	10/29/10	7.57	1100.08
MW-80D	Deep	1107.40	3/29/10	6.97	1100.43	8/26/10	7.24	1100.16	10/29/10	7.25	1100.15
MW-81A	Intermediate	1108.48	3/29/10	7.90	1100.58	8/26/10	8.18	1100.30	10/29/10	8.06	1100.42

Table 2-2
Water Level Measurements
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Sample ID	Zone Designation	Top of Casing (TOC) Elevation (fteet AMSL)	Date	Depth to Water from TOC (feet) March 2010	Groundwater Elevation (ft AMSL) March 2010	Date	Depth to Water from TOC (feet) August 2010	Groundwater Elevation (ft AMSL) August 2010	Date	Depth to Water from TOC (feet) October 2010	Groundwater Elevation (ft AMSL) October 2010
MW-81B	Shallow	1108.47	3/29/10	9.95	1098.52	8/26/10	8.08	1100.39	10/29/10	8.14	1100.33
MW-81D	Deep	1108.53	3/29/10	7.89	1100.64	8/26/10	8.04	1100.49	10/29/10	8.02	1100.51
MW-82A	Intermediate	1149.14	3/29/10	52.97	1096.17	8/26/10	50.93	1098.21	10/29/10	50.30	1098.84
MW-82B	Shallow	1149.12	3/29/10	52.92	1096.20	8/26/10	50.86	1098.26	10/29/10	50.30	1098.82
MW-82D	Deep	1149.22	3/29/10	52.91	1096.31	8/26/10	51.40	1097.82	10/29/10	50.80	1098.42
MW-83A	Intermediate	1152.41	3/29/10	58.03	1094.38	8/26/10	57.67	1094.74	10/29/10	56.95	1095.46
MW-83B	Shallow	1152.28	3/29/10	59.00	1093.28	8/26/10	57.62	1094.66	10/29/10	56.91	1095.37
MW-83D	Deep	1152.32	3/29/10	58.99	1093.33	8/26/10	57.62	1094.70	10/29/10	56.90	1095.42
MW-84A	Intermediate	1145.34	3/30/10	53.00	1092.34	8/26/10	51.44	1093.90	10/29/10	51.20	1094.14
MW-84B	Shallow	1145.62	3/30/10	52.84	1092.78	8/26/10	51.25	1094.37	10/29/10	51.03	1094.59
MW-84D	Deep	1145.37	3/30/10	53.20	1092.17	8/26/10	51.65	1093.72	10/29/10	51.40	1093.97
MW-85A	Intermediate	1132.58	3/30/10	46.07	1086.51	8/26/10	45.01	1087.57	10/29/10	44.45	1088.13
MW-85B	Shallow	1132.39	3/30/10	45.82	1086.57	8/26/10	44.77	1087.62	10/29/10	44.22	1088.17
MW-85D	Deep	1132.59	3/30/10	46.02	1086.57	8/26/10	45.01	1087.58	10/29/10	44.46	1088.13
MW-86A	Intermediate	1114.15	3/30/10	32.92	1081.23	8/26/10	32.35	1081.80	10/29/10	32.02	1082.13
MW-86B	Shallow	1114.58	3/30/10	33.35	1081.23	8/26/10	32.78	1081.80	10/29/10	32.41	1082.17
MW-86D	Deep	1113.90	3/30/10	32.70	1081.20	8/26/10	32.10	1081.80	10/29/10	31.75	1082.15
MW-87A	Intermediate	1078.38	3/30/10	3.85	1074.53	8/26/10	4.24	1074.14	10/29/10	4.24	1074.14
MW-87B	Shallow	1078.38	3/30/10	3.88	1074.50	8/26/10	4.25	1074.13	10/29/10	4.26	1074.12
MW-87D	Deep	1078.39	3/30/10	3.89	1074.50	8/26/10	4.28	1074.11	10/29/10	4.27	1074.12
MW-88A	Intermediate	1081.22	3/30/10	4.50	1076.72	8/26/10	6.00	1075.22	10/29/10	6.27	1074.95
MW-88B	Shallow	1081.27	3/30/10	4.50	1076.77	8/26/10	6.05	1075.22	10/29/10	6.32	1074.95
MW-88D	Deep	1081.30	3/30/10	4.64	1076.66	8/26/10	6.18	1075.12	10/29/10	6.44	1074.86
MW-89A	Intermediate	1160.99	3/30/10	56.45	1104.54	8/26/10	56.07	1104.92	10/29/10	55.81	1105.18
MW-89B	Shallow	1161.37	3/30/10	56.87	1104.50	8/26/10	56.60	1104.77	10/29/10	56.34	1105.03
MW-89D	Deep	1160.65	3/30/10	56.08	1104.57	8/26/10	55.71	1104.94	10/29/10	55.44	1105.21
MW-89E	Intermediate	1157.24	NM	NM	NM	NM	NM	NM	10/29/10	52.39	1104.85
MW-90A	Intermediate	1151.11	3/30/10	46.16	1104.95	8/26/10	45.71	1105.40	10/29/10	45.25	1105.86
MW-90B	Shallow	1150.77	3/30/10	46.20	1104.57	8/26/10	45.71	1105.06	10/29/10	45.36	1105.41
MW-90D	Deep	1151.44	3/30/10	46.60	1104.84	8/26/10	46.08	1105.36	10/29/10	45.75	1105.69
MW-91A	Intermediate	1152.04	3/30/10	47.47	1104.57	8/26/10	46.77	1105.27	10/29/10	46.38	1105.66
MW-91B	Shallow	1151.87	3/30/10	47.50	1104.37	8/26/10	46.75	1105.12	10/29/10	46.43	1105.44
MW-91D	Deep	1151.95	3/30/10	47.31	1104.64	8/26/10	46.77	1105.18	10/29/10	46.31	1105.64
MW-92A	Intermediate	1108.78	3/30/10	7.41	1101.37	8/26/10	7.90	1100.88	10/29/10	7.88	1100.90

Table 2-2
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Sample ID	Zone Designation	Top of Casing (TOC) Elevation (fteet AMSL)	Date	Depth to Water from TOC (feet) March 2010	Groundwater Elevation (ft AMSL) March 2010	Date	Depth to Water from TOC (feet) August 2010	Groundwater Elevation (ft AMSL) August 2010	Date	Depth to Water from TOC (feet) October 2010	Groundwater Elevation (ft AMSL) October 2010
MW-92B	Shallow	1108.65	3/30/10	7.65	1101.00	8/26/10	7.62	1101.03	10/29/10	7.61	1101.04
MW-93A	Intermediate	1124.26	3/30/10	20.78	1103.48	8/26/10	20.12	1104.14	10/29/10	19.97	1104.29
MW-93B	Shallow	1123.90	3/30/10	20.46	1103.44	8/26/10	19.80	1104.10	10/29/10	19.66	1104.24
MW-94A	Intermediate	1153.06	3/31/10	51.10	1101.96	NM	NM	NM	10/29/10	49.05	1104.01
MW-94B	Shallow	1153.09	3/31/10	51.09	1102.00	NM	NM	NM	10/29/10	49.00	1104.09
MW-94D	Deep	1153.25	3/31/10	51.51	1101.74	NM	NM	NM	10/29/10	49.63	1103.62
MW-95A	Intermediate	1156.81	3/29/10	57.16	1099.65	8/26/10	55.54	1101.27	10/29/10	55.02	1101.79
MW-95B	Shallow	1156.46	3/29/10	56.83	1099.63	8/26/10	55.13	1101.33	10/29/10	54.65	1101.81
MW-95D	Deep	1156.82	3/29/10	58.35	1098.47	8/26/10	56.45	1100.37	10/29/10	55.91	1100.91
MW-96A	Intermediate	1148.56	3/31/10	54.94	1093.62	8/26/10	53.19	1095.37	10/29/10	52.41	1096.15
MW-96B	Shallow	1148.56	3/31/10	54.92	1093.64	8/26/10	53.13	1095.43	10/29/10	52.41	1096.15
MW-96D	Deep	1148.58	3/31/10	54.94	1093.64	8/26/10	53.16	1095.42	10/29/10	52.41	1096.17
MW-97A	Intermediate	1143.08	3/29/10	50.77	1092.31	8/26/10	49.56	1093.52	10/29/10	49.10	1093.98
MW-97B	Shallow	1143.18	3/29/10	51.29	1091.89	8/26/10	49.58	1093.60	10/29/10	49.20	1093.98
MW-97D	Deep	1143.18	3/29/10	51.34	1091.84	8/26/10	49.68	1093.50	10/29/10	49.22	1093.96
MW-98A	Intermediate	1141.52	3/29/10	51.99	1089.53	8/26/10	50.55	1090.97	10/29/10	50.02	1091.50
MW-98B	Shallow	1141.58	3/29/10	52.01	1089.57	8/26/10	50.53	1091.05	10/29/10	50.02	1091.56
MW-98D	Deep	1141.58	3/29/10	52.11	1089.47	8/26/10	50.63	1090.95	10/29/10	50.11	1091.47
MW-99A	Intermediate	1163.04	3/29/10	71.62	1091.42	8/26/10	70.63	1092.41	10/29/10	70.16	1092.88
MW-99B	Shallow	1163.19	3/29/10	71.82	1091.37	8/26/10	70.78	1092.41	10/29/10	70.32	1092.87
MW-99D	Deep	1162.76	3/29/10	71.42	1091.34	8/26/10	71.43	1091.33	10/29/10	70.00	1092.76
MW-100A	Intermediate	1141.18	3/29/10	56.43	1084.75	8/26/10	55.10	1086.08	10/29/10	54.78	1086.40
MW-100B	Shallow	1141.12	3/29/10	56.37	1084.75	8/26/10	55.08	1086.04	10/29/10	54.68	1086.44
MW-100D	Deep	1141.22	3/29/10	56.51	1084.71	8/26/10	55.15	1086.07	10/29/10	54.78	1086.44
MW-101A	Intermediate	1107.43	3/29/10	7.26	1100.17	8/26/10	7.60	1099.83	10/29/10	7.68	1099.75
MW-101B	Shallow	1107.44	3/29/10	7.27	1100.17	8/26/10	7.60	1099.84	10/29/10	7.67	1099.77
MW-101D	Deep	1107.45	3/29/10	7.30	1100.15	8/26/10	7.62	1099.83	10/29/10	7.69	1099.76
MW-102A	Intermediate	1170.90	3/29/10	35.63	1135.27	8/26/10	35.00	1135.90	10/29/10	34.62	1136.28
MW-102B	Shallow	1171.13	3/29/10	36.48	1134.65	NM	35.75	1135.38	10/29/10	35.49	1135.64
MW-102D	Deep	1171.08	3/29/10	35.66	1135.42	8/26/10	35.00	1136.08	10/29/10	34.62	1136.46
MW-103A	Intermediate	1173.58	3/29/10	41.60	1131.98	8/26/10	41.00	1132.58	10/29/10	40.76	1132.82
MW-103B	Shallow	1173.80	3/29/10	41.46	1132.34	8/26/10	40.85	1132.95	10/29/10	40.60	1133.20
MW-103D	Deep	1173.22	3/29/10	41.23	1131.99	8/26/10	40.65	1132.57	10/29/10	40.42	1132.80
MW-104A	Intermediate	1081.26	3/29/10	2.48	1078.78	8/26/10	2.85	1078.41	10/29/10	2.66	1078.60

Table 2-2
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MW-104B	Shallow	1081.27	3/29/10	2.50	1078.77	8/26/10	2.89	1078.38	10/29/10	2.67	1078.60
MW-104D	Deep	1081.87	3/29/10	3.02	1078.85	8/26/10	3.44	1078.43	10/29/10	3.23	1078.64
MW-104O	Overburden	1081.69	3/29/10	4.22	1077.47	8/26/10	4.56	1077.13	10/29/10	4.48	1077.21
MW-105A	Intermediate	1079.60	3/29/10	3.22	1076.38	8/26/10	3.95	1075.65	10/29/10	3.83	1075.77
MW-105B	Shallow	1079.77	3/29/10	3.39	1076.38	8/26/10	4.10	1075.67	10/29/10	4.01	1075.76
MW-105O	Overburden	1080.04	3/29/10	6.44	1073.60	8/26/10	7.60	1072.44	10/29/10	7.83	1072.21
MW-106A	Intermediate	1118.06	3/29/10	17.94	1100.12	8/26/10	17.29	1100.77	10/29/10	16.50	1101.56
MW-106B	Shallow	1117.98	3/29/10	17.52	1100.46	8/26/10	16.65	1101.33	10/29/10	16.07	1101.91
MW-106D	Deep	1118.18	3/29/10	18.19	1099.99	8/26/10	19.60	1098.58	10/29/10	16.76	1101.42
MW-107A	Intermediate	1135.79	3/29/10	39.33	1096.46	8/26/10	39.00	1096.79	10/29/10	38.04	1097.75
MW-107B	Shallow	1136.72	3/29/10	40.79	1095.93	8/26/10	39.11	1097.61	10/29/10	38.61	1098.11
MW-107D	Deep	1136.35	3/29/10	38.90	1097.45	8/26/10	39.54	1096.81	10/29/10	38.59	1097.76
MW-108A	Intermediate	1126.74	3/29/10	31.30	1095.44	8/26/10	31.09	1095.65	10/29/10	38.14	1088.60
MW-108B	Shallow	1126.98	3/29/10	31.72	1095.26	8/26/10	30.28	1096.70	10/29/10	29.89	1097.09
MW-108D	Deep	1126.87	3/29/10	31.45	1095.42	8/26/10	31.32	1095.55	10/29/10	30.28	1096.59
MW-109A	Intermediate	1086.25	3/29/10	2.00	1084.25	8/26/10	2.55	1083.70	10/29/10	2.19	1084.06
MW-109B	Shallow	1085.98	3/29/10	1.71	1084.27	8/26/10	2.14	1083.84	10/29/10	1.93	1084.05
MW-109O	Overburden	1085.88	3/29/10	5.32	1080.56	8/26/10	6.86	1079.02	10/29/10	6.36	1079.52
MW-110A	Intermediate	1094.10	3/29/10	5.49	1088.61	8/26/10	6.05	1088.05	10/29/10	5.47	1088.63
MW-110B	Shallow	1094.49	3/29/10	5.84	1088.65	8/26/10	6.22	1088.27	10/29/10	5.79	1088.70
MW-110D	Deep	1094.36	3/29/10	5.70	1088.66	8/26/10	6.21	1088.15	10/29/10	5.68	1088.68
MW-111A	Intermediate	1082.82	3/29/10	2.51	1080.31	8/26/10	4.21	1078.61	10/29/10	4.28	1078.54
MW-111B	Shallow	1082.61	3/29/10	2.27	1080.34	8/26/10	4.48	1078.13	10/29/10	4.03	1078.58
MW-111O	Overburden	1082.48	3/29/10	4.95	1077.53	8/26/10	6.70	1075.78	10/29/10	6.26	1076.22
MW-112A	Intermediate	1082.03	NM	NM	NM	8/26/10	0.78	1081.25	10/29/10	0.61	1081.42
MW-112B	Shallow	1082.02	3/29/10	-0.48	1082.50	8/26/10	0.72	1081.30	10/29/10	0.55	1081.47
MW-113A	Intermediate	1080.47	3/29/10	-0.49	1080.96	8/26/10	0.72	1079.75	10/29/10	0.55	1079.92
MW-113B	Shallow	1080.42	3/29/10	-0.53	1080.95	8/26/10	0.65	1079.77	10/29/10	0.53	1079.89
MW-113D	Deep	1080.49	3/29/10	-0.36	1080.85	8/26/10	0.72	1079.77	10/29/10	0.61	1079.88
MW-114A	Intermediate	1080.32	3/29/10	2.61	1077.71	8/26/10	3.72	1076.60	10/29/10	3.76	1076.56
MW-114B	Shallow	1080.43	3/29/10	2.75	1077.68	8/26/10	3.88	1076.55	10/29/10	3.91	1076.52
MW-114D	Deep	1080.23	3/29/10	2.47	1077.76	8/26/10	3.59	1076.64	10/29/10	3.62	1076.61
MW-115A	Intermediate	1081.67	3/29/10	4.45	1077.22	8/26/10	5.91	1075.76	10/29/10	6.12	1075.55
MW-115B	Shallow	1081.77	3/29/10	4.55	1077.22	8/26/10	6.01	1075.76	10/29/10	6.23	1075.54

Table 2-2
Water Level Measurements
March 2010, August 2010 and October 2010 Monitoring Well Sampling Events
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

Sample ID	Zone Designation	Top of Casing (TOC) Elevation (fteet AMSL)	Date	Depth to Water from TOC (feet) March 2010	Groundwater Elevation (ft AMSL) March 2010	Date	Depth to Water from TOC (feet) August 2010	Groundwater Elevation (ft AMSL) August 2010	Date	Depth to Water from TOC (feet) October 2010	Groundwater Elevation (ft AMSL) October 2010
MW-115D	Deep	1081.66	3/29/10	4.45	1077.21	8/26/10	5.87	1075.79	10/29/10	6.10	1075.56
MW-116A	Intermediate	1080.53	3/29/10	4.22	1076.31	8/26/10	5.65	1074.88	10/29/10	5.26	1075.27
MW-116B	Shallow	1080.49	NM	NM	NM	8/26/10	5.48	1075.01	10/29/10	5.24	1075.25
MW-116D	Deep	1080.46	3/29/10	4.11	1076.35	8/26/10	5.35	1075.11	10/29/10	5.27	1075.19
MW-117A	Intermediate	1122.26	3/29/10	39.38	1082.88	8/26/10	38.53	1083.73	10/29/10	38.25	1084.01
MW-117B	Shallow	1122.06	3/29/10	39.22	1082.84	8/26/10	38.30	1083.76	10/29/10	38.02	1084.04
MW-117D	Deep	1122.41	3/29/10	39.58	1082.83	8/26/10	38.71	1083.70	10/29/10	38.41	1084.00
MW-118A	Intermediate	1143.87	3/29/10	53.00	1090.87	8/26/10	51.90	1091.97	10/29/10	51.65	1092.22
MW-118B	Shallow	1143.91	3/29/10	53.01	1090.90	8/26/10	51.90	1092.01	10/29/10	51.67	1092.24
MW-119A	Intermediate	1159.14	3/29/10	44.98	1114.16	8/26/10	43.75	1115.39	10/29/10	43.61	1115.53
MW-119B	Deep	1159.28	3/29/10	45.05	1114.23	8/26/10	43.84	1115.44	10/29/10	43.72	1115.56
MW-120A	Intermediate	1166.32	3/29/10	53.69	1112.63	8/26/10	52.64	1113.68	10/29/10	52.47	1113.85
MW-120B	Shallow	1166.33	3/29/10	53.74	1112.59	8/26/10	52.60	1113.73	10/29/10	52.51	1113.82
MW-120D	Deep	1166.62	3/29/10	54.10	1112.52	8/26/10	53.07	1113.55	10/29/10	52.90	1113.72
MW-120E	Intermediate	1166.43	3/29/10	53.88	1112.55	8/26/10	52.73	1113.70	10/29/10	52.65	1113.78
MW-121A	Intermediate	1170.04	3/29/10	56.36	1113.68	8/26/10	55.24	1114.80	10/29/10	55.21	1114.83
MW-121B	Shallow	1170.13	3/29/10	56.44	1113.69	8/26/10	55.31	1114.82	10/29/10	55.26	1114.87
MW-121E	Intermediate	1170.07	3/29/10	56.12	1113.95	8/26/10	55.03	1115.04	10/29/10	55.01	1115.06
MW-122A	Intermediate	1165.76	3/29/10	54.72	1111.04	8/26/10	54.00	1111.76	10/29/10	53.68	1112.08
MW-122B	Shallow	1166.52	3/29/10	55.51	1111.01	8/26/10	54.80	1111.72	10/29/10	54.45	1112.07
MW-123A	Intermediate	1168.99	3/29/10	56.02	1112.97	8/26/10	54.61	1114.38	10/29/10	54.73	1114.26
MW-123B	Shallow	1168.97	3/29/10	55.94	1113.03	8/26/10	54.50	1114.47	10/29/10	54.65	1114.32
MW-124A	Intermediate	1161.89	3/29/10	43.68	1118.21	8/26/10	42.87	1119.02	10/29/10	42.56	1119.33
MW-124B	Shallow	1161.59	3/29/10	43.40	1118.19	8/26/10	42.54	1119.05	10/29/10	42.29	1119.30
MW-124D	Deep	1161.82	3/29/10	43.96	1117.86	8/26/10	43.15	1118.67	10/29/10	42.88	1118.94
MW-125A	Intermediate	1162.05	3/29/10	47.05	1115.00	8/26/10	45.86	1116.19	10/29/10	45.87	1116.18
MW-125B	Shallow	1162.14	3/29/10	47.21	1114.93	8/26/10	46.00	1116.14	10/29/10	46.02	1116.12
MW-125D	Deep	1161.52	3/29/10	46.80	1114.72	8/26/10	45.59	1115.93	10/29/10	45.29	1116.23
MW-126A	Intermediate	1170.87	3/29/10	41.70	1129.17	8/26/10	41.20	1129.67	10/29/10	40.46	1130.41
MW-126B	Shallow	1171.29	3/29/10	42.03	1129.26	8/26/10	41.53	1129.76	10/29/10	40.86	1130.43
MW-126D	Deep	1170.26	3/29/10	41.00	1129.26	8/26/10	40.41	1129.85	10/29/10	39.41	1130.85
MW-127A	Intermediate	1168.95	3/29/10	34.16	1134.79	8/26/10	33.47	1135.48	10/29/10	32.63	1136.32
MW-127B	Shallow	1169.37	3/29/10	34.32	1135.05	8/26/10	33.84	1135.53	10/29/10	32.97	1136.40
MW-127E	Shallow	1169.40	3/29/10	34.51	1134.89	8/26/10	34.00	1135.40	10/29/10	33.18	1136.22

Table 2-2
Water Level Measurements
March 2010, August 2010 and October 2010 Monitoring Well Sampling Events
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Former Nebraska Ordnance Plant, Mead, Nebraska

Sample ID	Zone Designation	Top of Casing (TOC) Elevation (fteet AMSL)	Date	Depth to Water from TOC (feet) March 2010	Groundwater Elevation (ft AMSL) March 2010	Date	Depth to Water from TOC (feet) August 2010	Groundwater Elevation (ft AMSL) August 2010	Date	Depth to Water from TOC (feet) October 2010	Groundwater Elevation (ft AMSL) October 2010
MW-128A	Intermediate	1156.97	3/29/10	62.94	1094.03	8/26/10	62.07	1094.90	10/29/10	61.75	1095.22
MW-128B	Shallow	1156.94	3/29/10	62.95	1093.99	8/26/10	62.07	1094.87	10/29/10	61.71	1095.23
MW-128D	Deep	1156.84	3/29/10	62.75	1094.09	8/26/10	61.87	1094.97	10/29/10	61.55	1095.29
MW-129A	Intermediate	1149.77	3/29/10	62.35	1087.42	8/26/10	61.66	1088.11	10/29/10	61.12	1088.65
MW-129B	Shallow	1149.72	3/29/10	62.35	1087.37	8/26/10	61.66	1088.06	10/29/10	61.08	1088.64
MW-129D	Deep	1149.46	3/29/10	61.95	1087.51	8/26/10	61.22	1088.24	10/29/10	60.60	1088.86
MW-130A	Intermediate	1145.47	3/29/10	60.24	1085.23	8/26/10	59.59	1085.88	10/29/10	59.10	1086.37
MW-130B	Shallow	1145.92	3/29/10	60.72	1085.20	8/26/10	59.94	1085.98	10/29/10	59.45	1086.47
MW-130D	Deep	1145.15	3/29/10	59.96	1085.19	8/26/10	59.14	1086.01	10/29/10	58.70	1086.45
MW-131A	Intermediate	1148.09	3/29/10	57.81	1090.28	8/26/10	57.00	1091.09	10/29/10	56.55	1091.54
MW-131B	Shallow	1147.94	3/29/10	57.66	1090.28	8/26/10	56.67	1091.27	10/29/10	56.35	1091.59
MW-131D	Deep	1148.10	3/29/10	57.80	1090.30	8/26/10	56.73	1091.37	10/29/10	56.47	1091.63
MW-132A	Intermediate	1160.09	3/29/10	67.86	1092.23	8/26/10	66.74	1093.35	10/29/10	66.42	1093.67
MW-132B	Shallow	1159.81	3/29/10	67.49	1092.32	8/26/10	66.46	1093.35	10/29/10	66.11	1093.70
MW-132D	Deep	1160.44	3/29/10	68.28	1092.16	8/26/10	67.10	1093.34	10/29/10	66.76	1093.68
MW-133A	Intermediate	1167.41	3/29/10	41.93	1125.48	8/26/10	43.35	1124.06	10/29/10	43.01	1124.40
MW-133B	Shallow	1167.55	3/29/10	41.91	1125.64	8/26/10	43.30	1124.25	10/29/10	42.98	1124.57
MW-133D	Deep	1167.19	3/29/10	41.97	1125.22	8/26/10	43.36	1123.83	10/29/10	43.04	1124.15
MW-134A	Intermediate	1168.44	3/29/10	45.31	1123.13	8/26/10	45.95	1122.49	10/29/10	45.43	1123.01
MW-134B	Shallow	1168.55	3/29/10	45.37	1123.18	8/26/10	45.95	1122.60	10/29/10	45.45	1123.10
MW-134D	Deep	1168.68	3/29/10	45.35	1123.33	8/26/10	45.80	1122.88	10/29/10	45.32	1123.36
MW-135A	Intermediate	1165.77	3/29/10	40.75	1125.02	8/26/10	42.50	1123.27	10/29/10	42.23	1123.54
MW-135B	Shallow	1165.71	3/29/10	40.72	1124.99	8/26/10	42.36	1123.35	10/29/10	42.18	1123.53
MW-135D	Deep	1165.51	3/29/10	40.51	1125.00	8/26/10	41.70	1123.81	10/29/10	41.40	1124.11
MW-136A	Intermediate	1167.96	3/31/10	41.22	1126.74	8/26/10	42.17	1125.79	10/29/10	41.89	1126.07
MW-136B	Shallow	1168.14	3/31/10	41.20	1126.94	8/26/10	42.10	1126.04	10/29/10	41.74	1126.40
MW-136D	Deep	1167.61	3/31/10	40.82	1126.79	8/26/10	41.76	1125.85	10/29/10	41.40	1126.21
MW-136E	Shallow	1168.29	3/31/10	41.35	1126.94	8/26/10	42.20	1126.09	10/29/10	41.88	1126.41
MW-137A	Intermediate	1166.31	3/31/10	35.70	1130.61	8/26/10	35.38	1130.93	10/29/10	35.06	1131.25
MW-137B	Shallow	1166.04	3/31/10	35.62	1130.42	8/26/10	35.33	1130.71	10/29/10	34.99	1131.05
MW-137D	Deep	1165.98	3/31/10	35.46	1130.52	8/26/10	35.16	1130.82	10/29/10	NM	NM
MW-137E	Shallow	1166.17	3/31/10	35.74	1130.43	8/26/10	35.43	1130.74	10/29/10	35.10	1131.07
MW-138A	Intermediate	1175.83	3/31/10	42.80	1133.03	8/26/10	42.20	1133.63	10/29/10	41.92	1133.91
MW-138B	Shallow	1176.22	3/31/10	43.20	1133.02	8/26/10	42.55	1133.67	10/29/10	42.26	1133.96

Table 2-2
Water Level Measurements
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MW-139A	Intermediate	1180.32	3/31/10	44.58	1135.74	8/26/10	43.88	1136.44	10/29/10	43.56	1136.76
MW-139B	Shallow	1180.61	3/31/10	44.91	1135.70	8/26/10	44.21	1136.40	10/29/10	43.88	1136.73
MW-140A	Intermediate	1092.50	3/31/10	5.70	1086.80	8/26/10	6.10	1086.40	10/29/10	5.74	1086.76
MW-140B	Shallow	1092.42	3/31/10	5.50	1086.92	8/26/10	5.92	1086.50	10/29/10	5.54	1086.88
MW-140D	Deep	1092.30	3/31/10	5.46	1086.84	8/26/10	5.88	1086.42	10/29/10	5.51	1086.79
MW-140O	Overburden	1092.60	3/31/10	8.29	1084.31	8/26/10	9.60	1083.00	10/29/10	9.48	1083.12
MW-141A	Intermediate	1162.07	NM	NM	NM	8/26/10	38.22	1123.85	10/29/10	37.61	1124.46
MW-141B	Shallow	1162.10	NM	NM	NM	8/26/10	38.20	1123.90	10/29/10	37.58	1124.52
MW-141E	Intermediate	1162.07	NM	NM	NM	8/26/10	38.22	1123.85	10/29/10	37.57	1124.50
MW-142A	Intermediate	1154.43	NM	NM	NM	8/26/10	47.22	1107.21	10/29/10	46.65	1107.78
MW-142E	Intermediate	1154.15	NM	NM	NM	8/26/10	46.94	1107.21	10/29/10	46.38	1107.77
MW-143B	Shallow	1155.87	NM	NM	NM	8/26/10	46.44	1109.43	10/29/10	46.04	1109.83
MW-144A	Intermediate	1164.17	NM	NM	NM	8/26/10	41.14	1123.03	10/29/10	40.34	1123.83
MW-144E	Intermediate	1164.47	NM	NM	NM	8/26/10	40.74	1123.73	10/29/10	40.62	1123.85
MW-145A	Intermediate	1160.75	NM	NM	NM	8/26/10	49.40	1111.35	10/29/10	48.61	1112.14
MW-145E	Intermediate	1160.89	NM	NM	NM	8/26/10	49.25	1111.64	10/29/10	48.75	1112.14
MW-146A	Intermediate	1148.18	NM	NM	NM	8/26/10	49.40	1098.78	10/29/10	48.74	1099.44
MW-146B	Shallow	1148.01	NM	NM	NM	8/26/10	49.20	1098.81	10/29/10	48.55	1099.46
MW-147A	Intermediate	1148.92	NM	NM	NM	8/26/10	51.95	1096.97	10/29/10	51.29	1097.63
MW-147B	Shallow	1148.74	NM	NM	NM	8/26/10	51.80	1096.94	10/29/10	51.14	1097.60
MW-147D	Deep	1148.52	NM	NM	NM	8/26/10	51.54	1096.98	10/29/10	50.87	1097.65
MW-148B	Shallow	1160.53	NM	NM	NM	8/26/10	43.82	1116.71	10/29/10	43.23	1117.30
MW-149A	Intermediate	1152.23	NM	NM	NM	8/26/10	46.20	1106.03	10/29/10	49.73	1102.50
MW-150A	Intermediate	1147.59	NM	NM	NM	8/26/10	49.00	1098.59	10/29/10	48.58	1099.01
MW-150B	Shallow	1147.51	NM	NM	NM	8/26/10	48.96	1098.55	10/29/10	48.44	1099.07
MW-151A	Intermediate	1158.65	NM	NM	NM	8/26/10	43.40	1115.25	10/29/10	42.65	1116.00
MW-151B	Shallow	1158.72	NM	NM	NM	8/26/10	43.46	1115.26	10/29/10	42.71	1116.01
MW-152B	Shallow	1148.37	NM	NM	NM	8/26/10	39.75	1108.62	10/29/10	39.23	1109.14
MW-153A	Intermediate	1146.17	NM	NM	NM	8/26/10	44.10	1102.07	10/29/10	43.59	1102.58
MW-153B	Shallow	1146.28	NM	NM	NM	8/26/10	44.25	1102.03	10/29/10	43.68	1102.60
MW-154A	Intermediate	1141.11	NM	NM	NM	8/26/10	46.60	1094.51	10/29/10	45.75	1095.36
MW-154B	Shallow	1141.16	NM	NM	NM	8/26/10	46.10	1095.06	10/29/10	45.03	1096.13
MW-155A	Intermediate	1141.95	NM	NM	NM	8/26/10	46.00	1095.95	10/29/10	45.52	1096.43
MW-155E	Intermediate	1141.78	NM	NM	NM	8/26/10	45.85	1095.93	10/29/10	45.37	1096.41

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MW-156A	Intermediate	1093.89	NM	NM	NM	8/26/10	5.50	1088.39	10/29/10	4.94	1088.95
MW-156B	Shallow	1093.96	NM	NM	NM	8/26/10	4.90	1089.06	10/29/10	5.04	1088.92
MW-157A	Intermediate	1102.64	NM	NM	NM	8/26/10	19.00	1083.64	10/29/10	18.63	1084.01
MW-157B	Shallow	1101.91	NM	NM	NM	8/26/10	18.30	1083.61	10/29/10	17.88	1084.03
MW-158A	Intermediate	1076.69	NM	NM	NM	8/26/10	2.35	1074.34	10/29/10	2.27	1074.42
MW-158B	Shallow	1076.36	NM	NM	NM	8/26/10	2.10	1074.26	10/29/10	1.96	1074.40
MW-158D	Deep	1076.63	NM	NM	NM	8/26/10	2.35	1074.28	10/29/10	2.25	1074.38
MW-159A	Intermediate	1163.51	NM	NM	NM	8/26/10	47.50	1116.01	10/29/10	47.02	1116.49
MW-159B	Shallow	1163.57	NM	NM	NM	8/26/10	47.65	1115.92	10/29/10	47.16	1116.41
OW-01	Intermediate	1161.41	3/31/10	47.15	1114.26	NM	NM	NM	10/29/10	45.81	1115.60
OW-02	Intermediate	1161.57	3/31/10	47.20	1114.37	8/26/10	46.01	1115.56	10/29/10	45.87	1115.70
OW-03	Intermediate	1161.69	3/31/10	47.25	1114.44	8/26/10	46.03	1115.66	10/29/10	45.94	1115.75
OW-04	Intermediate	1161.75	3/31/10	47.45	1114.30	8/26/10	45.97	1115.78	10/29/10	46.14	1115.61
OW-05	Intermediate	1080.35	3/23/10	8.09	1072.26	8/26/10	9.47	1070.88	10/29/10	9.19	1071.16
OW-06	Intermediate	1079.22	3/23/10	5.49	1073.73	8/26/10	6.70	1072.52	10/29/10	6.42	1072.80
OW-07	Intermediate	1079.06	3/23/10	4.89	1074.17	8/26/10	6.00	1073.06	10/29/10	5.78	1073.28
OW-08	Intermediate	1078.43	3/23/10	3.86	1074.57	8/26/10	4.92	1073.51	10/29/10	4.71	1073.72
OW-09	Intermediate	1080.96	3/23/10	7.11	1073.85	8/26/10	8.30	1072.66	10/29/10	8.07	1072.89
OW-10	Intermediate	1079.79	3/31/10	5.23	1074.56	8/26/10	6.22	1073.57	10/29/10	6.09	1073.70
OW-11	Intermediate	1078.66	3/31/10	3.58	1075.08	8/26/10	4.51	1074.15	10/29/10	4.45	1074.21
OW-12	Intermediate	1080.19	3/29/10	3.76	1076.43	8/26/10	5.01	1075.18	10/29/10	5.09	1075.10
OW-13	Intermediate	1081.25	3/29/10	7.30	1073.95	8/26/10	8.51	1072.74	10/29/10	8.27	1072.98
OW-14	Intermediate	1080.52	3/29/10	5.71	1074.81	8/26/10	6.80	1073.72	10/29/10	6.63	1073.89
OW-15	Intermediate	1080.66	3/29/10	5.60	1075.06	8/26/10	6.61	1074.05	10/29/10	6.49	1074.17
OW-16	Intermediate	1078.22	3/29/10	1.47	1076.75	8/26/10	1.65	1076.57	10/29/10	1.52	1076.70
OW-17	Intermediate	1161.58	3/29/10	46.92	1114.66	8/26/10	45.64	1115.94	10/29/10	45.52	1116.06
OW-18	Intermediate	1162.21	3/29/10	47.82	1114.39	8/26/10	46.49	1115.72	10/29/10	46.47	1115.74
OW-19	Intermediate	1172.28	3/29/10	59.25	1113.03	8/26/10	57.82	1114.46	10/29/10	57.96	1114.32
OW-20	Intermediate	1162.79	3/29/10	48.45	1114.34	8/26/10	47.22	1115.57	10/29/10	47.11	1115.68
OW-21	Intermediate	1159.81	3/29/10	45.89	1113.92	8/26/10	44.70	1115.11	10/29/10	44.57	1115.24
OW-22	Intermediate	1161.24	3/29/10	47.12	1114.12	8/26/10	46.04	1115.20	10/29/10	45.86	1115.38
OW-23	Intermediate	1162.08	3/29/10	46.89	1115.19	NM	NM	NM	10/29/10	45.52	1116.56
OW-24	Intermediate	1153.07	3/29/10	69.46	1083.61	8/26/10	68.71	1084.36	10/29/10	68.17	1084.90
OW-25	Intermediate	1155.71	3/29/10	71.57	1084.14	8/26/10	70.85	1084.86	10/29/10	70.28	1085.43

Table 2-2
Water Level Measurements
March 2010, August 2010 and October 2010 Monitoring Well Sampling Events
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Former Nebraska Ordnance Plant, Mead, Nebraska

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OW-26	Intermediate	1148.64	3/29/10	63.29	1085.35	8/26/10	62.50	1086.14	10/29/10	62.00	1086.64
OW-27	Intermediate	1153.30	3/29/10	69.54	1083.76	8/26/10	68.71	1084.59	10/29/10	68.17	1085.13
OW-28	Intermediate	1153.81	3/29/10	69.90	1083.91	8/26/10	69.36	1084.45	10/29/10	68.55	1085.26
OW-30	Intermediate	1131.58	3/29/10	46.82	1084.76	8/26/10	46.41	1085.17	10/29/10	45.49	1086.09
OW-31	Intermediate	1155.78	3/29/10	60.97	1094.81	8/26/10	59.89	1095.89	10/29/10	59.55	1096.23
OW-32	Intermediate	1153.87	3/29/10	59.12	1094.75	8/26/10	57.93	1095.94	10/29/10	57.60	1096.27
OW-33	Intermediate	1154.67	3/29/10	59.99	1094.68	8/26/10	58.75	1095.92	10/29/10	58.50	1096.17
OW-34	Intermediate	1154.70	3/29/10	60.33	1094.37	8/26/10	59.29	1095.41	10/29/10	58.45	1096.25
OW-35	Intermediate	1154.10	3/29/10	59.69	1094.41	8/26/10	58.66	1095.44	10/29/10	58.30	1095.80
OW-36	Intermediate	1157.23	3/29/10	63.37	1093.86	8/26/10	62.15	1095.08	10/29/10	61.90	1095.33
OW-37	Intermediate	1157.36	3/29/10	63.35	1094.01	8/26/10	62.50	1094.86	10/29/10	62.10	1095.26
OW-38	Intermediate	1151.19	3/29/10	61.36	1089.83	8/26/10	60.09	1091.10	10/29/10	59.00	1092.19
OW-39	Intermediate	1151.39	3/29/10	61.45	1089.94	8/26/10	57.89	1093.50	10/29/10	56.90	1094.49
OW-40	Intermediate	1157.66	3/29/10	63.99	1093.67	8/26/10	62.60	1095.06	10/29/10	61.81	1095.85
OW-41	Intermediate	1150.22	3/29/10	61.28	1088.94	8/26/10	60.00	1090.22	10/29/10	58.85	1091.37
OW-42	Intermediate	1151.21	3/29/10	59.99	1091.22	8/26/10	58.63	1092.58	10/29/10	57.60	1093.61
OW-43	Intermediate	1156.74	3/29/10	63.71	1093.03	8/26/10	62.39	1094.35	10/29/10	61.70	1095.04
OW-44	Intermediate	1147.84	3/29/10	53.79	1094.05	8/26/10	52.36	1095.48	10/29/10	52.03	1095.81
OW-45	Intermediate	1152.47	3/29/10	55.68	1096.79	8/26/10	53.63	1098.84	10/29/10	53.13	1099.34
OW-46	Intermediate	1151.55	3/29/10	54.49	1097.06	8/26/10	52.43	1099.12	10/29/10	51.91	1099.64
OW-47	Intermediate	1153.44	3/29/10	55.84	1097.60	8/26/10	53.74	1099.70	10/29/10	53.28	1100.16
OW-48	Intermediate	1153.38	3/29/10	56.65	1096.73	8/26/10	54.55	1098.83	10/29/10	54.05	1099.33
OW-49	Intermediate	1154.09	3/29/10	57.61	1096.48	8/26/10	55.51	1098.58	10/29/10	55.00	1099.09
OW-50	Intermediate	1151.16	3/29/10	55.10	1096.06	8/26/10	52.70	1098.46	10/29/10	52.25	1098.91
OW-51	Intermediate	1149.86	3/29/10	53.96	1095.90	8/26/10	51.95	1097.91	10/29/10	51.40	1098.46
OW-52	Intermediate	1107.14	3/29/10	13.61	1093.53	8/26/10	12.50	1094.64	10/29/10	11.99	1095.15
OW-53	Intermediate	1107.13	3/29/10	11.73	1095.40	8/26/10	10.80	1096.33	10/29/10	10.38	1096.75
OW-54	Intermediate	1115.39	3/29/10	12.45	1102.94	8/26/10	12.00	1103.39	10/29/10	11.88	1103.51
OW-55	Intermediate	1107.05	3/29/10	14.81	1092.24	8/26/10	13.48	1093.57	10/29/10	12.93	1094.12
OW-56	Intermediate	1112.15	3/29/10	9.43	1102.72	8/26/10	9.11	1103.04	10/29/10	8.99	1103.16
OW-57	Intermediate	1114.84	3/29/10	11.91	1102.93	8/26/10	11.50	1103.34	10/29/10	11.39	1103.45
OW-58	Intermediate	1109.00	3/29/10	8.02	1100.98	8/26/10	7.90	1101.10	10/29/10	7.79	1101.21
OW-59	Intermediate	1110.50	3/29/10	8.57	1101.93	8/26/10	8.38	1102.12	10/29/10	8.31	1102.19
OW-60	Intermediate	1149.15	3/29/10	60.19	1088.96	8/26/10	59.80	1089.35	10/29/10	59.40	1089.75

Table 2-2
Water Level Measurements
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Sample ID	Zone Designation	Top of Casing (TOC) Elevation (fteet AMSL)	Date	Depth to Water from TOC (feet) March 2010	Groundwater Elevation (ft AMSL) March 2010	Date	Depth to Water from TOC (feet) August 2010	Groundwater Elevation (ft AMSL) August 2010	Date	Depth to Water from TOC (feet) October 2010	Groundwater Elevation (ft AMSL) October 2010
OW-61	Intermediate	1148.81	3/29/10	59.80	1089.01	8/26/10	58.90	1089.91	10/29/10	58.41	1090.40
OW-62	Intermediate	1151.40	3/29/10	61.61	1089.79	8/26/10	60.66	1090.74	10/29/10	60.15	1091.25
OW-63	Intermediate	1152.90	3/29/10	63.50	1089.40	8/26/10	62.61	1090.29	10/29/10	62.11	1090.79
OW-64	Intermediate	1148.12	3/29/10	59.71	1088.41	8/26/10	59.01	1089.11	10/29/10	58.37	1089.75
OW-65	Intermediate	1147.36	3/29/10	59.45	1087.91	8/26/10	58.71	1088.65	10/29/10	58.20	1089.16
OW-66	Intermediate	1147.09	3/29/10	53.05	1094.04	8/26/10	51.68	1095.41	10/29/10	51.43	1095.66
OW-67	Intermediate	1149.64	3/29/10	55.59	1094.05	8/26/10	54.15	1095.49	10/29/10	53.92	1095.72
OW-68	Intermediate	1146.89	3/29/10	53.38	1093.51	8/26/10	51.95	1094.94	10/29/10	51.62	1095.27
OW-69	Intermediate	1147.02	3/29/10	53.02	1094.00	8/26/10	51.68	1095.34	10/29/10	51.43	1095.59
OW-70	Intermediate	1146.14	3/29/10	52.34	1093.80	8/26/10	50.88	1095.26	10/29/10	50.70	1095.44
OW-71	Intermediate	1158.23	3/29/10	64.15	1094.08	8/26/10	62.85	1095.38	10/29/10	62.62	1095.61
OW-72	Intermediate	1156.05	3/29/10	62.64	1093.41	8/26/10	60.90	1095.15	10/29/10	60.29	1095.76
OW-73	Intermediate	1157.61	3/29/10	62.43	1095.18	8/26/10	61.62	1095.99	10/29/10	61.00	1096.61
OW-74	Intermediate	1148.38	3/29/10	53.00	1095.38	8/26/10	51.02	1097.36	10/29/10	50.44	1097.94
OW-75	Intermediate	1154.51	3/29/10	60.46	1094.05	8/26/10	58.71	1095.80	10/29/10	58.10	1096.41
OW-76	Intermediate	1148.68	3/29/10	54.30	1094.38	8/26/10	52.56	1096.12	10/29/10	51.91	1096.77
OW-77	Intermediate	1157.82	3/29/10	64.59	1093.23	8/26/10	63.17	1094.65	10/29/10	62.40	1095.42
OW-78	Intermediate	1163.94	3/29/10	54.57	1109.37	8/26/10	53.21	1110.73	10/29/10	53.38	1110.56
OW-79	Intermediate	1167.29	3/29/10	55.90	1111.39	NM	NM	NM	10/29/10	54.70	1112.59
OW-80	Intermediate	1169.30	3/29/10	56.32	1112.98	8/26/10	54.92	1114.38	10/29/10	55.03	1114.27
OW-81	Intermediate	1164.13	3/29/10	51.90	1112.23	8/26/10	50.54	1113.59	10/29/10	50.68	1113.45
OW-82	Intermediate	1169.05	3/29/10	56.35	1112.70	8/26/10	55.23	1113.82	10/29/10	55.13	1113.92
OW-83	Intermediate	1173.20	3/29/10	59.30	1113.90	8/26/10	58.19	1115.01	10/29/10	58.17	1115.03
OW-89	Intermediate	1092.56	3/29/10	12.61	1079.95	8/26/10	12.65	1079.91	10/29/10	12.36	1080.20
OW-90	Intermediate	1153.30	3/29/10	61.41	1091.89	8/26/10	60.70	1092.60	10/29/10	60.37	1092.93
OW-92	Intermediate	1154.30	3/29/10	60.70	1093.60	8/26/10	59.91	1094.39	10/29/10	59.60	1094.70
OW-93	Intermediate	1156.87	3/29/10	65.20	1091.67	8/26/10	64.64	1092.23	10/29/10	64.29	1092.58
OW-94	Intermediate	1153.21	3/29/10	59.78	1093.43	8/26/10	59.01	1094.20	10/29/10	58.70	1094.51
OW-95	Intermediate	1150.04	3/29/10	56.91	1093.13	8/26/10	56.15	1093.89	10/29/10	55.80	1094.24
OW-96	Intermediate	1146.64	3/29/10	59.95	1086.69	8/26/10	59.36	1087.28	10/29/10	58.80	1087.84
OW-97	Intermediate	1146.21	3/29/10	59.92	1086.29	8/26/10	59.22	1086.99	10/29/10	58.70	1087.51
OW-98	Intermediate	1150.67	3/29/10	63.98	1086.69	8/26/10	63.20	1087.47	10/29/10	62.63	1088.04
OW-99	Intermediate	1146.97	3/29/10	61.03	1085.94	NM	60.34	1086.63	10/29/10	59.80	1087.17
OW-100	Intermediate	1147.39	3/31/10	61.95	1085.44	8/26/10	61.17	1086.22	10/29/10	66.65	1080.74

Table 2-2
Water Level Measurements
March 2010, August 2010 and October 2010 Monitoring Well Sampling Events
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

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OW-101	Intermediate	1168.26	3/31/10	42.52	1125.74	8/26/10	46.00	1122.26	10/29/10	54.98	1113.28
OW-102	Intermediate	1166.49	3/31/10	40.63	1125.86	8/26/10	42.70	1123.79	10/29/10	42.59	1123.90
OW-103	Intermediate	1169.13	3/31/10	42.51	1126.62	8/26/10	43.09	1126.04	10/29/10	42.91	1126.22
OW-104	Intermediate	1167.73	3/31/10	42.67	1125.06	8/26/10	44.65	1123.08	10/29/10	44.55	1123.18
OW-105	Intermediate	1165.40	3/31/10	41.11	1124.29	8/26/10	42.11	1123.29	10/29/10	41.89	1123.51
PZ-01	Intermediate	1116.38	3/29/10	32.55	1083.83	8/26/10	32.47	1083.91	10/29/10	31.89	1084.49
PZ-02	Intermediate	1130.80	3/29/10	44.55	1086.25	8/26/10	43.49	1087.31	10/29/10	43.43	1087.37
PZ-03	Intermediate	1087.27	3/29/10	0.85	1086.42	8/26/10	0.65	1086.62	10/29/10	0.36	1086.91
PZ-04	Intermediate	1086.65	3/29/10	3.61	1083.04	8/26/10	4.58	1082.07	10/29/10	4.32	1082.33
PZ-05	Intermediate	1085.66	3/29/10	2.79	1082.87	8/26/10	4.51	1081.15	10/29/10	4.70	1080.96
PZ-06	Intermediate	1088.42	3/29/10	2.36	1086.06	8/26/10	3.43	1084.99	10/29/10	3.16	1085.26
PZ-11	Deep	1094.18	NM	NM	NM	8/26/10	5.65	1088.53	10/29/10	5.12	1089.06
PZ-12	Deep	1101.36	NM	NM	NM	8/26/10	17.90	1083.46	10/29/10	17.43	1083.93
PZ-13	Intermediate	1081.23	NM	NM	NM	8/26/10	1.70	1079.53	10/29/10	1.40	1079.83
PZ-14	Intermediate	1080.52	NM	NM	NM	8/26/10	1.00	1079.52	10/29/10	0.79	1079.73
TH-EW-12	Intermediate	1107.37	3/29/10	27.28	1080.09	8/26/10	24.50	1082.87	10/29/10	23.40	1083.97
TH-EW-13	Intermediate	1111.04	3/29/10	9.26	1101.78	8/26/10	9.07	1101.97	10/29/10	8.98	1102.06
TH-EW-14R1	Intermediate	1156.72	3/29/10	64.92	1091.80	8/26/10	64.13	1092.59	10/29/10	64.00	1092.72
TH-EW-14R2	Intermediate	1151.08	3/29/10	58.32	1092.76	8/26/10	57.44	1093.64	10/29/10	57.05	1094.03
TH-EW-15	Intermediate	1172.51	3/29/10	43.27	1129.24	8/26/10	48.65	1123.86	10/29/10	48.66	1123.85
TH-EW-16	Intermediate	1147.71	3/29/10	61.99	1085.72	8/26/10	61.50	1086.21	10/29/10	60.85	1086.86

Notes:

NM = Not Measured
ft = feet
AMSL = above mean sea level
TOC = Top of Casing
OW = Observation Well
EW = Extraction Well

MW = Monitoring well
TH = Test Hole
PZ = Piezometer

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Table 2-3
Potentiometric Surface Directions and Gradients
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

	March 2010	**August 2010**	**October 2010**
Groundwater Flow Direction	Southeast	Southeast	Southeast
Groundwater Gradient (foot vertical per foot horizontal)	0.0023	0.0024	0.0024
Groundwater Gradient (feet per mile)	12.15	12.43	12.43

Note: Horizontal gradients were measured between monitoring wells MW-08A and MW-87A, a horizontal distance of 19,225 feet.

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Table 2-4
Monitoring Well Cluster Vertical Groundwater Flow Directions
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

Sampling Event	**March 2010**		**August 2010**		**October 2010**	
Saturated Zones	Shallow to Intermediate	Intermediate to Deep	Shallow to Intermediate	Intermediate to Deep	Shallow to Intermediate	Intermediate to Deep
Total Number of Well Clusters	110	68	114	68	117	68
Well Clusters with Upward Flow	50	35	43	33	44	29
Well Clusters with Downward Flow	49	31	33	5	69	37
Well Clusters with no Vertical Gradient	11	2	7	2	4	2

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Table 2-5
2010 Vertical Gradient Directions and Values
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

Monitoring Event	Vertical Flow Direction	Flow Between Shallow Zone and Intermediate Zone		Flow Between Intermediate Zone and Deep Zone	
		Well Cluster	Gradient*	Well Cluster	Gradient*
March 2010	Downward Flow**	MW-53	0.0375	MW-83	0.0847
		MW-54	0.0587	MW-84	0.0283
		MW-56	0.0445	MW-95	0.0409
		MW-107	0.0242	MW-97	0.0319
		MW-108	0.0289	MW-133	0.0208
		MW-154	0.0262		
		MW-156	0.0388		
		MW-84	0.0232		
		MW-154	0.0262		
	Upward Flow**	MW-52	-0.0322	MW-107	-0.0687
		MW-111	-0.0298		
August 2010	Downward Flow	MW-29	0.0322	MW-84	0.0300
		MW-44	0.2364	MW-95	0.0312
		MW-46	0.0808	MW-99	0.0755
		MW-53	0.0298	MW-106	0.1510
		MW-54	0.0625		
		MW-56	0.0385		
		MW-73	0.0692		
		MW-84	0.0217		
	Upward Flow	MW-52	-0.0424	MW-116	-0.0214
		MW-81	-0.0394	MW-131	-0.0251
		MW-83	-0.0383	MW-134	-0.0233
		MW-97	-0.0240	MW-135	-0.0366
October 2010	Downward Flow	MW-53	0.0332	MW-84	0.0283
		MW-54	0.0537	MW-95	0.0305
		MW-56	0.0373	MW-124	0.0207
		MW-84	0.0222	MW-133	0.0200
		MW-154	0.0366		
	Upward Flow	MW-44	-0.0723	MW-80	-0.0230
		MW-52	-0.0237	MW-134	-0.0209
				MW-135	-0.0386

* Positive gradient indicates downward flow between the two zones. Negative gradient indicates upward flow between the two zones.

MW = monitoring well

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Table 3-1 - 2010 Baseline Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-141A	Intermediate	Baseline 2010	ND	ND	ND	0.54 J	ND	ND
MW-141B	Shallow	Baseline 2010	ND	3.2	9.7	58.0	0.20 J	ND
MW-141E	Intermediate	Baseline 2010	ND	0.29 J	4.6 J	29.8	ND	ND
MW-142A	Intermediate	Baseline 2010	ND	ND	ND	0.49	ND	ND
MW-142E	Shallow	Baseline 2010	ND	ND	ND	1.1	ND	ND
MW-143B	Shallow	Baseline 2010	ND	0.39 J	3.1	16.2	ND	ND
MW-144A	Intermediate	Baseline 2010	ND	0.062 J	0.18 J	21.4	ND	ND
MW-144E	Intermediate	Baseline 2010	ND	2.7	0.93	47.3	ND	ND
MW-145A	Intermediate	Baseline 2010	ND	ND	0.67 J	63.2	ND	ND
MW-145E	Intermediate	Baseline 2010	ND	ND	1.5	97.0	ND	ND
MW-146A	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-146B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147A	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147D	Deep	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-148B	Shallow	Baseline 2010	ND	0.048 J	5.4	49.8	ND	ND
MW-149A	Intermediate	Baseline 2010	ND	ND	0.56	12.0	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-1 - 2010 Baseline Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-150A	Intermediate	Baseline 2010	ND	0.16 J	1.4	12.8	ND	ND
MW-150B	Shallow	Baseline 2010	ND	0.097 J	0.88	9.5	ND	ND
MW-151A	Intermediate	Baseline 2010	ND	0.061 J	ND	ND	ND	ND
MW-151B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-152B	Shallow	Baseline 2010	ND	ND	ND	1.5	ND	ND
MW-153A	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-153B	Shallow	Baseline 2010	ND	ND	ND	0.38 J	ND	ND
MW-154A	Intermediate	Baseline 2010	ND	0.084 J	0.16 J	4.8	ND	ND
MW-154B	Shallow	Baseline 2010	ND	ND	0.092 J	3.2	ND	ND
MW-155A	Intermediate	Baseline 2010	ND	ND	ND	0.13 J	ND	ND
MW-155E	Intermediate	Baseline 2010	ND	ND	ND	0.25 J	ND	ND
MW-156A	Intermediate	Baseline 2010	ND	0.17 J	0.91	9.5	ND	ND
MW-156B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-157A	Intermediate	Baseline 2010	ND	ND	ND	1.5	ND	ND
MW-157B	Shallow	Baseline 2010	ND	ND	ND	0.26 J	ND	ND
MW-158A	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-1 - 2010 Baseline Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-158D	Deep	Baseline 2010	ND	0.082 J	ND	ND	ND	ND
MW-159A	Deep	Baseline 2010	0.31 J	ND	ND	ND	ND	ND
MW-159B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-89E	Intermediate	Baseline 2010	ND	ND	ND	0.32 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-1 - 2010 Baseline Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-141A	Intermediate	Baseline 2010	ND	17.0	ND	6300	ND	ND
MW-141B	Shallow	Baseline 2010	ND	10.0 J	ND	8800	ND	ND
MW-141E	Intermediate	Baseline 2010	ND	18.0	ND	10000	3.5 J	ND
MW-142A	Intermediate	Baseline 2010	ND	1.5 J	ND	900	ND	ND
MW-142E	Shallow	Baseline 2010	ND	2.3 J	ND	1800	ND	ND
MW-143B	Shallow	Baseline 2010	ND	ND	ND	0.22 J	ND	ND
MW-144A	Intermediate	Baseline 2010	ND	ND	ND	0.35 J	ND	ND
MW-144E	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-145A	Intermediate	Baseline 2010	ND	ND	ND	0.58 J	ND	ND
MW-145E	Intermediate	Baseline 2010	ND	ND	ND	0.23 J	ND	ND
MW-146A	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-146B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147A	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147D	Deep	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-148B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-149A	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-1 - 2010 Baseline Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-150A	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-150B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-151A	Intermediate	Baseline 2010	ND	6.6	ND	1000	ND	ND
MW-151B	Shallow	Baseline 2010	ND	6.4	ND	960	ND	ND
MW-152B	Shallow	Baseline 2010	ND	2.5	ND	21.0	ND	ND
MW-153A	Intermediate	Baseline 2010	ND	4.2 J	ND	910	ND	ND
MW-153B	Shallow	Baseline 2010	ND	2.2 J	ND	440	ND	ND
MW-154A	Intermediate	Baseline 2010	ND	1.2	ND	31.0	ND	ND
MW-154B	Shallow	Baseline 2010	ND	0.55 J	ND	15	ND	ND
MW-155A	Intermediate	Baseline 2010	ND	3.2 J	ND	690	ND	ND
MW-155E	Intermediate	Baseline 2010	ND	2.7 J	ND	630	ND	ND
MW-156A	Intermediate	Baseline 2010	ND	0.30 J	ND	4.2	ND	ND
MW-156B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-157A	Intermediate	Baseline 2010	ND	0.25 J	ND	46.0	ND	ND
MW-157B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158A	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-1 - 2010 Baseline Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-158D	Deep	Baseline 2010	ND	ND	ND	ND	ND	0.71 J
MW-159A	Deep	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-159B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-89E	Intermediate	Baseline 2010	ND	ND	ND	190	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-2
2010 Comparison of Passive and Low Flow Sample Results
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Event**	**Sampling Method**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-153A	Baseline 2010	Low Flow	ND	**0.22 J**	**0.14 J**	**1.7 J**	ND	**0.21 J**
		Hydrasleeve	ND	ND	ND	ND	ND	ND
MW-153B	Baseline 2010	Low Flow	ND	ND	ND	**0.48 J**	ND	ND
		Hydrasleeve	ND	ND	ND	**0.38 J**	ND	ND
MW-154A	Baseline 2010	Low Flow	ND	ND	**0.13 J**	**4.5 J**	ND	ND
		Hydrasleeve	ND	**0.084 J**	**0.16 J**	**4.8**	ND	ND
MW-154B	Baseline 2010	Low Flow	ND	ND	ND	**3.1 J**	ND	ND
		Hydrasleeve	ND	ND	**0.092 J**	**3.2**	ND	ND
MW-153A	Fourth Quarter 2010	Low Flow	ND	ND	ND	**0.068 J**	ND	ND
		Hydrasleeve	ND	ND	ND	ND	ND	ND
MW-154A	Fourth Quarter 2010	Low Flow	ND	**0.075 J**	**0.24**	**7.1**	ND	ND
		Hydrasleeve	ND	**0.063 J**	**0.25 J**	**6.9**	ND	ND
MW-154B	Fourth Quarter 2010	Low Flow	ND	**0.018 J**	**0.071 J**	**2.8**	ND	ND
		Hydrasleeve	ND	ND	**0.13 J**	**3.1**	ND	ND
MW-158A	Fourth Quarter 2010	Low Flow	ND	ND	ND	ND	ND	ND
		Hydrasleeve	ND	ND	ND	ND	ND	ND
MW-158B	Fourth Quarter 2010	Low Flow	ND	ND	ND	ND	ND	ND
		Hydrasleeve	ND	ND	ND	ND	ND	ND
MW-158D	Fourth Quarter 2010	Low Flow	ND	ND	**0.13 J**	ND	ND	ND
		Hydrasleeve	ND	**0.036 J**	**0.13 J**	ND	ND	ND

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Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-102A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-102B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-102D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	0.21 J	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-103B	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106A	Intermediate	First Quarter 2010	ND	ND	ND	0.039 J	ND	ND
		Second Quarter 2010	ND	ND	ND	0.18 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.12 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106D	Deep	First Quarter 2010	ND	ND	ND	0.11 J	ND	ND
		Second Quarter 2010	ND	ND	ND	0.11 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.095 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-107A	Intermediate	First Quarter 2010	ND	ND	ND	0.12 J	ND	ND
		Second Quarter 2010	ND	ND	ND	0.055 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.088 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-108B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-110A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-110B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-110D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-110D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-115A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-116A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-116B	Shallow	First Quarter 2010	ND	ND	0.042 J	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-116D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-118A	Intermediate	First Quarter 2010	ND	ND	ND	0.23 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-118A	Intermediate	Second Quarter 2010	ND	ND	0.044 J	0.27 J	ND	ND
		Third Quarter 2010	ND	ND	0.051 J	0.37	ND	ND
		Fourth Quarter 2010	ND	ND	0.049 J	0.29 J	ND	ND
MW-118B	Shallow	First Quarter 2010	ND	ND	0.10 J	0.82	ND	ND
		Second Quarter 2010	ND	ND	0.13 J	0.84	ND	ND
		Third Quarter 2010	ND	ND	0.16 J	0.89	ND	ND
		Fourth Quarter 2010	ND	ND	0.15 J	0.86	ND	ND
MW-35A	Intermediate	First Quarter 2010	ND	ND	ND	0.21 J	ND	ND
		Second Quarter 2010	ND	ND	ND	0.22 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.20 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.20	ND	ND
MW-35B	Shallow	First Quarter 2010	ND	ND	ND	0.20 J	ND	ND
		Second Quarter 2010	ND	ND	ND	0.16 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.096 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.14 J	ND	ND
MW-35D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-35D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-38A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-38D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-41B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-46A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-46B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-46D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-81A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-81B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-81D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-83A	Intermediate	First Quarter 2010	ND	ND	ND	0.30	ND	ND
		Second Quarter 2010	ND	ND	ND	0.24	ND	ND
		Third Quarter 2010	ND	ND	ND	0.16 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.092 J	ND	ND
MW-83B	Shallow	First Quarter 2010	ND	ND	ND	0.051 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-83B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-83D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	0.041 J	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-84A	Intermediate	First Quarter 2010	ND	ND	ND	0.29	ND	ND
		Second Quarter 2010	ND	ND	ND	0.25	ND	ND
		Third Quarter 2010	ND	ND	ND	0.18 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.22	ND	ND
MW-84B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-84D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-84D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-85A	Intermediate	First Quarter 2010	ND	ND	ND	0.94	ND	ND
		Second Quarter 2010	ND	ND	ND	0.83	ND	ND
		Third Quarter 2010	ND	ND	ND	0.88	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.68	ND	ND
MW-85B	Shallow	First Quarter 2010	ND	ND	0.053 J	1.3	ND	ND
		Second Quarter 2010	ND	ND	0.060 J	1.2	ND	ND
		Third Quarter 2010	ND	ND	0.071 J	1.4	ND	ND
		Fourth Quarter 2010	ND	ND	0.11 J	1.4	ND	ND
MW-85D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-95A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	0.046 J	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-147A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147D	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-159A	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	0.31 J	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-159B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-112A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-112B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-102A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-102B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-102D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-103B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.41 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-106D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107D	Deep	First Quarter 2010	ND	ND	1.0 J	ND	0.60 J	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-108A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-110A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-110B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-110D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-115A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-116A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	1.2	ND	ND
MW-116B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-116B	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-116D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-117D	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-118A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-118B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-35A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-35B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-35D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-38A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-38D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-41B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-46A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-46B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-46D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-46D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-81A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-81B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-81D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-83A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-83A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-83B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-83D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-84A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-84B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-84D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-85A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-85B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-85D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-95A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-147A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147D	Deep	Fourth Quarter 2010	ND	ND	ND	0.42 J	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-159A	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	0.44 J
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-159B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-112A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.66 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-112B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.37 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.38 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.58 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-3 - 2010 Perimeter Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-113D	Deep	Third Quarter 2010	ND	ND	ND	0.30 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Table 3-4 - 2010 Compliance Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-100A	Intermediate	First Quarter 2010	ND	ND	ND	0.17 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.059 J	ND	ND
MW-100B	Shallow	First Quarter 2010	ND	ND	ND	0.11 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.087 J	ND	ND
MW-100D	Deep	First Quarter 2010	ND	ND	ND	0.093 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.069 J	ND	ND
MW-101A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-101B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-101D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-20A	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-20B	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-20C	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-4 - 2010 Compliance Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-61A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.46	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-61B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-61D	Deep	First Quarter 2010	ND	ND	ND	ND	0.022 J	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-4 - 2010 Compliance Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-62D	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-86A	Intermediate	First Quarter 2010	ND	ND	ND	0.46	ND	ND
		Third Quarter 2010	ND	ND	ND	0.41	ND	ND
MW-86B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-86D	Deep	First Quarter 2010	ND	ND	ND	1.3	ND	ND
		Third Quarter 2010	ND	ND	ND	1.3	ND	ND
MW-88A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-88B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-4 - 2010 Compliance Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-88D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97B	Shallow	First Quarter 2010	ND	ND	ND	0.039 J	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-4 - 2010 Compliance Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-98B	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-158A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158D	Deep	Fourth Quarter 2010	ND	ND	0.13 J	ND	ND	ND
		Baseline 2010	ND	0.036 J	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-4 - 2010 Compliance Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-100A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-100B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-100D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-101A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-101B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-101D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-20A	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-20B	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-4 - 2010 Compliance Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-20B	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-20C	Shallow	First Quarter 2010	ND	ND	0.26 J	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	1.8	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.71 J	ND	ND
MW-61A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-61B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-61D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	2.7	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-4 - 2010 Compliance Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-62B	Shallow	Third Quarter 2010	ND	ND	ND	0.99 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	1.4	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-86A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-86B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-86D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-4 - 2010 Compliance Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-88A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-88B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-88D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-4 - 2010 Compliance Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-97D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-158A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158D	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-5 - 2010 LL1 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-21A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-21B	Shallow	First Quarter 2010	0.11 J	0.50 J	9.8	9.5	0.078 J	ND
		Third Quarter 2010	0.074 J	0.30 J	9.5	9.8	ND	ND
MW-21D	Deep	First Quarter 2010	0.078 J	ND	0.21 J	0.32 J	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-24A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	0.058 J	ND	ND	ND
MW-24B	Shallow	First Quarter 2010	0.055 J	0.099 J	2.6	5.0	0.11 J	ND
		Third Quarter 2010	ND	0.16 J	3.2	8.9	0.073 J	ND
MW-90A	Intermediate	First Quarter 2010	ND	ND	ND	0.057 J	ND	ND
		Third Quarter 2010	ND	ND	0.046 J	ND	ND	ND
MW-90B	Shallow	First Quarter 2010	ND	0.024 J	ND	0.20 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.26	ND	ND
MW-90D	Deep	First Quarter 2010	ND	0.23 J	0.075 J	0.079 J	ND	ND
		Third Quarter 2010	ND	0.20 J	0.17 J	0.087 J	0.071 J	ND
MW-141A	Intermediate	Fourth Quarter 2010	ND	ND	0.11 J	2.9	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-5 - 2010 LL1 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-141A	Intermediate	Baseline 2010	ND	ND	ND	0.54 J	ND	ND
MW-141B	Shallow	Fourth Quarter 2010	ND	2.7 J	9.0	67.3	0.42 J	ND
		Baseline 2010	ND	3.2	9.7	58.0	0.20 J	ND
MW-141E	Intermediate	Fourth Quarter 2010	ND	0.35 J	4.7	29.0	0.14 J	ND
		Baseline 2010	ND	0.29 J	4.6 J	29.8	ND	ND
MW-142A	Intermediate	Fourth Quarter 2010	ND	0.031 J	ND	0.58 J	ND	ND
		Baseline 2010	ND	ND	ND	0.49	ND	ND
MW-142E	Shallow	Fourth Quarter 2010	0.085 J	ND	ND	2.3	ND	ND
		Baseline 2010	ND	ND	ND	1.1	ND	ND
MW-124A	Intermediate	Third Quarter 2010	ND	ND	0.039 J	ND	ND	ND
MW-124B	Shallow	Third Quarter 2010	ND	0.017 J	3.0	61.6	0.15 J	ND
MW-124D	Deep	Third Quarter 2010	ND	ND	0.052 J	ND	ND	ND
MW-125A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-125B	Shallow	Third Quarter 2010	ND	ND	4.2 J	9.8 J	0.12 J	ND
MW-125D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-126A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-126B	Shallow	Third Quarter 2010	ND	0.051 J	16.7 J	20.1 J	0.45 J	0.83 J

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-5 - 2010 LL1 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-126D	Deep	Third Quarter 2010	ND	ND	0.060 J	ND	ND	ND
MW-127A	Intermediate	Third Quarter 2010	ND	ND	ND	0.092 J	ND	ND
MW-127B	Shallow	Third Quarter 2010	ND	0.67	0.46	0.52 J	0.57	5.4
MW-127E	Shallow	Third Quarter 2010	0.13 J	3.9 J	2.6 J	19.9 J	156 J	133 J

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-5 - 2010 LL1 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-21A	Intermediate	First Quarter 2010	ND	ND	ND	20.0	ND	ND
		Third Quarter 2010	ND	ND	ND	33.0	ND	ND
MW-21B	Shallow	First Quarter 2010	ND	ND	ND	50.0	ND	ND
		Third Quarter 2010	ND	ND	ND	53.0	ND	ND
MW-21D	Deep	First Quarter 2010	ND	30.0	ND	31.0	39.0	ND
		Third Quarter 2010	ND	2.2 J	ND	250	2.5 J	ND
MW-24A	Intermediate	First Quarter 2010	ND	6.9 J	ND	1200	ND	ND
		Third Quarter 2010	ND	5.9 J	ND	930	ND	ND
MW-24B	Shallow	First Quarter 2010	ND	ND	ND	22.0	ND	ND
		Third Quarter 2010	ND	ND	ND	49.0	ND	ND
MW-90A	Intermediate	First Quarter 2010	ND	ND	ND	260	ND	ND
		Third Quarter 2010	ND	ND	ND	120	ND	ND
MW-90B	Shallow	First Quarter 2010	ND	ND	ND	560	ND	ND
		Third Quarter 2010	ND	ND	ND	450	ND	ND
MW-90D	Deep	First Quarter 2010	ND	ND	ND	390	ND	ND
		Third Quarter 2010	ND	0.38 J	ND	140	ND	ND
MW-141A	Intermediate	Fourth Quarter 2010	ND	13.0	ND	5700	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-5 - 2010 LL1 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-141A	Intermediate	Baseline 2010	ND	17.0	ND	6300	ND	ND
MW-141B	Shallow	Fourth Quarter 2010	ND	9.8 J	ND	8700	ND	ND
		Baseline 2010	ND	10.0 J	ND	8800	ND	ND
MW-141E	Intermediate	Fourth Quarter 2010	ND	18.0 J	ND	10000	3.9 J	ND
		Baseline 2010	ND	18.0	ND	10000	3.5 J	ND
MW-142A	Intermediate	Fourth Quarter 2010	ND	1.2 J	ND	830	ND	ND
		Baseline 2010	ND	1.5 J	ND	900	ND	ND
MW-142E	Shallow	Fourth Quarter 2010	ND	1.8 J	ND	1500	ND	ND
		Baseline 2010	ND	2.3 J	ND	1800	ND	ND
MW-124A	Intermediate	Third Quarter 2010	ND	12.0	ND	3100	ND	ND
MW-124B	Shallow	Third Quarter 2010	ND	24.0 J	ND	16000	ND	ND
MW-124D	Deep	Third Quarter 2010	ND	4.5	ND	650	ND	ND
MW-125A	Intermediate	Third Quarter 2010	ND	4.2	ND	710	ND	ND
MW-125B	Shallow	Third Quarter 2010	ND	3.9 J	ND	2000	ND	ND
MW-125D	Deep	Third Quarter 2010	ND	ND	ND	5.5	ND	ND
MW-126A	Intermediate	Third Quarter 2010	ND	25.0	ND	8000	6.3 J	ND
MW-126B	Shallow	Third Quarter 2010	ND	18.0 J	ND	11000	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-5 - 2010 LL1 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-126D	Deep	Third Quarter 2010	ND	18.0	ND	740	0.52 J	ND
MW-127A	Intermediate	Third Quarter 2010	ND	3.1	ND	28.0	4.4	ND
MW-127B	Shallow	Third Quarter 2010	ND	7.5	ND	160	20.0	ND
MW-127E	Shallow	Third Quarter 2010	ND	ND	ND	21.0	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-6 - 2010 LL2 and LL3 Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-130A	Intermediate	First Quarter 2010	ND	ND	0.13 J	1.5	ND	ND
		Second Quarter 2010	ND	ND	0.12 J	1.4	ND	ND
		Fourth Quarter 2010	ND	ND	0.11 J	1.3	ND	ND
MW-130B	Shallow	First Quarter 2010	ND	ND	0.049 J	0.66	ND	ND
		Second Quarter 2010	ND	ND	ND	0.63	ND	ND
		Fourth Quarter 2010	ND	ND	0.064 J	0.72	ND	ND
MW-130D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-143B	Shallow	Fourth Quarter 2010	ND	0.32 J	2.6	13.3	ND	ND
		Baseline 2010	ND	0.39 J	3.1	16.2	ND	ND
MW-144A	Intermediate	Fourth Quarter 2010	ND	0.12 J	0.22 J	29.5	ND	ND
		Baseline 2010	ND	0.062 J	0.18 J	21.4	ND	ND
MW-144E	Intermediate	Fourth Quarter 2010	ND	2.2	0.34 J	6.7	ND	ND
		Baseline 2010	ND	2.3	0.36 J	11.5	ND	ND
MW-145A	Intermediate	Fourth Quarter 2010	ND	ND	0.68	80.6	ND	ND
		Baseline 2010	ND	ND	0.67 J	63.2	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-6 - 2010 LL2 and LL3 Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-145E	Intermediate	Fourth Quarter 2010	ND	ND	1.6	105	ND	ND
		Baseline 2010	ND	ND	1.5	97.0	ND	ND
MW-148B	Shallow	Fourth Quarter 2010	ND	0.061 J	5.4	43.7	ND	ND
		Baseline 2010	ND	0.048 J	5.3	49.1	ND	ND
MW-149A	Intermediate	Fourth Quarter 2010	ND	0.051 J	0.60	11.7	ND	0.19 J
		Baseline 2010	ND	ND	0.56	12.0	ND	ND
MW-150A	Intermediate	Fourth Quarter 2010	ND	0.16 J	1.4	12.3	ND	ND
		Baseline 2010	ND	0.16 J	1.4	12.8	ND	ND
MW-150B	Shallow	Fourth Quarter 2010	ND	0.076 J	0.88	8.7	ND	ND
		Baseline 2010	ND	0.097 J	0.88	9.5	ND	ND
MW-05B	Shallow	Second Quarter 2010	0.071 J	0.053 J	0.039 J	0.42	0.47	1.6
MW-29A	Intermediate	Second Quarter 2010	ND	0.047 J	0.16 J	2.8	ND	0.68 J
MW-29B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
MW-32A	Intermediate	Second Quarter 2010	ND	ND	0.15 J	5.5	ND	ND
MW-32B	Intermediate	Second Quarter 2010	ND	ND	0.10 J	7.9	ND	ND
MW-32D	Deep	Second Quarter 2010	ND	ND	0.078 J	5.1	ND	ND
MW-65B	Shallow	Second Quarter 2010	0.24	0.34	0.33	22.0	0.028 J	0.23

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-6 - 2010 LL2 and LL3 Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-99A	Intermediate	Second Quarter 2010	ND	ND	0.086 J	1.9	ND	ND
MW-99B	Shallow	Second Quarter 2010	ND	ND	0.12 J	2.9 J	ND	ND
MW-99D	Deep	Second Quarter 2010	ND	ND	0.094 J	3.4	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-6 - 2010 LL2 and LL3 Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-143B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	0.22 J	ND	ND
MW-144A	Intermediate	Fourth Quarter 2010	ND	ND	ND	0.31 J	ND	ND
		Baseline 2010	ND	ND	ND	0.35 J	ND	ND
MW-144E	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-145A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	0.58 J	ND	ND
MW-145E	Intermediate	Fourth Quarter 2010	ND	ND	ND	0.33 J	ND	ND
		Baseline 2010	ND	ND	ND	0.23 J	ND	ND
MW-148B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-149A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-150A	Intermediate	Fourth Quarter 2010	ND	ND	ND	0.32 J	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-150B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-6 - 2010 LL2 and LL3 Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-150B	Shallow	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-05A	Intermediate	Second Quarter 2010	ND	1.2	ND	1.1	ND	ND
MW-05B	Shallow	Second Quarter 2010	ND	ND	ND	1.0	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-104A	Intermediate	First Quarter 2010	ND	ND	0.056 J	2.8	ND	ND
		Third Quarter 2010	ND	ND	ND	4.6	ND	ND
MW-104B	Shallow	First Quarter 2010	ND	ND	0.070 J	2.5	ND	ND
		Third Quarter 2010	ND	ND	0.046 J	8.4	ND	ND
MW-104D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-104O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-105A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-105B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-105O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-109A	Intermediate	First Quarter 2010	ND	ND	0.085 J	2.5	ND	ND
		Third Quarter 2010	ND	ND	0.090 J	1.7	ND	ND
MW-109B	Intermediate	First Quarter 2010	ND	ND	0.076 J	2.0	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-109B	Intermediate	Third Quarter 2010	ND	ND	0.085 J	1.7	ND	ND
MW-109O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-11	Shallow	First Quarter 2010	ND	ND	ND	4.4	ND	ND
MW-111A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-111B	Shallow	First Quarter 2010	ND	ND	ND	0.12 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.069 J	ND	ND
MW-111O	Shallow	First Quarter 2010	ND	ND	ND	ND	0.015 J	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-18A	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-18B	Intermediate	First Quarter 2010	0.12 J	0.055 J	0.80 J	0.30 J	0.17 J	2.7 J
MW-18C	Shallow	First Quarter 2010	ND	ND	ND	4.0	ND	ND
MW-42A	Intermediate	First Quarter 2010	ND	0.044 J	0.098 J	3.9	ND	ND
MW-42B	Shallow	First Quarter 2010	ND	ND	ND	0.23 J	ND	ND
MW-42D	Deep	First Quarter 2010	ND	ND	0.054 J	3.1	ND	ND
MW-43A	Intermediate	First Quarter 2010	ND	ND	0.42 J	0.24 J	0.37 J	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-43B	Shallow	First Quarter 2010	ND	0.50	0.20	2.3	ND	ND
MW-43D	Deep	First Quarter 2010	ND	ND	0.048 J	ND	ND	ND
MW-44A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-44B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-44D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-54A	Intermediate	First Quarter 2010	ND	ND	0.096 J	1.6 J	0.095 J	ND
MW-54B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-151A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	0.061 J	ND	ND	ND	ND
MW-151B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-152B	Shallow	Fourth Quarter 2010	ND	ND	ND	0.31 J	ND	ND
		Baseline 2010	ND	ND	ND	1.5	ND	ND
MW-153A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-153B	Shallow	Fourth Quarter 2010	ND	ND	ND	0.38 J	ND	ND
		Baseline 2010	ND	ND	ND	0.38 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-154A	Intermediate	Fourth Quarter 2010	ND	0.063 J	0.25 J	6.9	ND	ND
		Baseline 2010	ND	0.084 J	0.16 J	4.8	ND	ND
MW-154B	Shallow	Fourth Quarter 2010	ND	ND	0.13 J	3.1	ND	ND
		Baseline 2010	ND	ND	0.092 J	3.2	ND	ND
MW-155A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	0.13 J	ND	ND
MW-155E	Intermediate	Fourth Quarter 2010	ND	ND	ND	0.22 J	ND	ND
		Baseline 2010	ND	ND	ND	0.25 J	ND	ND
MW-156A	Intermediate	Fourth Quarter 2010	ND	0.16 J	0.95	8.9	ND	ND
		Baseline 2010	ND	0.17 J	0.91	9.5	ND	ND
MW-156B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-157A	Intermediate	Fourth Quarter 2010	ND	ND	ND	6.5	ND	ND
		Baseline 2010	ND	ND	ND	1.5	ND	ND
MW-157B	Shallow	Fourth Quarter 2010	ND	ND	ND	0.15 J	ND	ND
		Baseline 2010	ND	ND	ND	0.26 J	ND	ND
MW-09A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-09B	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-09D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-09A	Intermediate	First Quarter 2010	ND	1.4 J	ND	280	ND	ND
		Third Quarter 2010	ND	ND	ND	450	ND	ND
MW-09B	Shallow	First Quarter 2010	ND	ND	ND	28.0	ND	ND
		Third Quarter 2010	ND	ND	ND	410	ND	ND
MW-09D	Deep	First Quarter 2010	ND	2.1 J	ND	500	ND	ND
		Third Quarter 2010	ND	ND	ND	580	ND	ND
MW-104A	Intermediate	First Quarter 2010	ND	0.32 J	ND	31.0	ND	ND
		Third Quarter 2010	ND	0.40 J	ND	10.0	ND	ND
MW-104B	Shallow	First Quarter 2010	ND	ND	ND	110	ND	ND
		Third Quarter 2010	ND	0.56 J	ND	11.0	ND	ND
MW-104D	Deep	First Quarter 2010	ND	ND	ND	1.4	ND	ND
		Third Quarter 2010	ND	ND	ND	2.0	ND	ND
MW-104O	Shallow	First Quarter 2010	ND	1.4	ND	0.72 J	ND	ND
		Third Quarter 2010	ND	1.4	ND	0.51 J	0.18 J	ND
MW-105A	Intermediate	First Quarter 2010	ND	2.0	ND	40.0	ND	ND
		Third Quarter 2010	ND	1.1	ND	22.0	ND	ND
MW-105B	Shallow	First Quarter 2010	ND	1.4	ND	29.0 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-105B	Shallow	Third Quarter 2010	ND	1.5	ND	30.0	ND	ND
MW-105O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-109A	Intermediate	First Quarter 2010	ND	0.32 J	ND	8.7	ND	ND
		Third Quarter 2010	ND	0.30 J	ND	7.9	ND	ND
MW-109B	Intermediate	First Quarter 2010	ND	0.36 J	ND	11.0	ND	ND
		Third Quarter 2010	ND	0.27 J	ND	8.6	ND	ND
MW-109O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.29 J	ND	ND
MW-111A	Intermediate	First Quarter 2010	ND	ND	ND	5.2	ND	ND
		Third Quarter 2010	ND	ND	ND	4.9	ND	ND
MW-111B	Shallow	First Quarter 2010	ND	ND	ND	12.0	ND	ND
		Third Quarter 2010	ND	ND	ND	10.0	ND	ND
MW-111O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-138A	Intermediate	First Quarter 2010	ND	ND	ND	0.46 J	ND	ND
		Third Quarter 2010	ND	ND	ND	3.0	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-138B	Shallow	First Quarter 2010	ND	12.0	ND	1300	ND	ND
		Third Quarter 2010	ND	13.0	ND	2200	ND	ND
MW-139A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	1.4	ND	ND
MW-139B	Shallow	First Quarter 2010	ND	2.8 J	ND	460	ND	ND
		Third Quarter 2010	ND	2.1 J	ND	350	ND	ND
MW-140A	Intermediate	First Quarter 2010	ND	ND	ND	0.21 J	ND	ND
		Third Quarter 2010	ND	ND	0.27 J	ND	ND	ND
MW-140B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-140D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-140O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-18A	Deep	First Quarter 2010	ND	ND	ND	0.78 J	ND	ND
MW-18B	Intermediate	First Quarter 2010	ND	ND	ND	1.3	ND	ND
MW-18C	Shallow	First Quarter 2010	ND	0.41 J	ND	13.0	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-42A	Intermediate	First Quarter 2010	ND	0.39 J	ND	57.0	ND	ND
MW-42B	Shallow	First Quarter 2010	ND	ND	ND	0.91 J	ND	ND
MW-42D	Deep	First Quarter 2010	ND	ND	ND	1.1	ND	ND
MW-43A	Intermediate	First Quarter 2010	ND	ND	ND	7.3	ND	ND
MW-43B	Shallow	First Quarter 2010	ND	ND	ND	3.6	ND	ND
MW-43D	Deep	First Quarter 2010	ND	ND	ND	16.0	ND	ND
MW-44A	Intermediate	First Quarter 2010	ND	2.1 J	ND	170	ND	ND
MW-44B	Shallow	First Quarter 2010	ND	ND	ND	4.4	ND	ND
MW-44D	Deep	First Quarter 2010	ND	ND	ND	14.0	ND	ND
MW-54A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-54B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-151A	Intermediate	Fourth Quarter 2010	ND	1.4	ND	53.0	ND	ND
		Baseline 2010	ND	6.6	ND	1000	ND	ND
MW-151B	Shallow	Fourth Quarter 2010	ND	6.8	ND	1100	ND	ND
		Baseline 2010	ND	6.4	ND	47.0	ND	ND
MW-152B	Shallow	Fourth Quarter 2010	ND	1.4	ND	17.0	ND	ND
		Baseline 2010	ND	2.5	ND	21.0	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-153A	Intermediate	Fourth Quarter 2010	ND	4.4	ND	1100	ND	ND
		Baseline 2010	ND	4.2 J	ND	910	ND	ND
MW-153B	Shallow	Fourth Quarter 2010	ND	2.8 J	ND	480	ND	ND
		Baseline 2010	ND	2.2 J	ND	440	ND	ND
MW-154A	Intermediate	Fourth Quarter 2010	ND	1.2	ND	28.0	ND	ND
		Baseline 2010	ND	1.2	ND	24.0	ND	ND
MW-154B	Shallow	Fourth Quarter 2010	ND	0.71 J	ND	18.0	ND	ND
		Baseline 2010	ND	0.55 J	ND	15.0	ND	ND
MW-155A	Intermediate	Fourth Quarter 2010	ND	3.4	ND	790	ND	ND
		Baseline 2010	ND	3.2 J	ND	690	ND	ND
MW-155E	Intermediate	Fourth Quarter 2010	ND	2.8 J	ND	480	0.74 J	ND
		Baseline 2010	ND	2.7 J	ND	630	ND	ND
MW-156A	Intermediate	Fourth Quarter 2010	ND	0.25 J	ND	4.4	ND	ND
		Baseline 2010	ND	0.30 J	ND	4.2	ND	ND
MW-156B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-157A	Intermediate	Fourth Quarter 2010	ND	0.23 J	ND	22.0	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-7 - 2010 LL4 Interior Plume Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-157A	Intermediate	Baseline 2010	ND	0.25 J	ND	46.0	ND	ND
MW-157B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-40B	Shallow	Second Quarter 2010	ND	1.3 J	ND	110 J	ND	ND
MW-72A	Intermediate	Second Quarter 2010	ND	ND	ND	2.7	ND	ND
MW-72B	Shallow	Second Quarter 2010	ND	14.0 J	ND	2200	ND	ND
MW-73A	Intermediate	Second Quarter 2010	ND	ND	ND	1.0	ND	ND
MW-73B	Shallow	Second Quarter 2010	ND	1.2	ND	230	ND	ND
MW-136A	Intermediate	Third Quarter 2010	ND	ND	ND	15.0	ND	ND
MW-136B	Shallow	Third Quarter 2010	ND	1.6 J	ND	130	ND	ND
MW-136D	Deep	Third Quarter 2010	ND	0.40 J	ND	18.0	ND	ND
MW-136E	Shallow	Third Quarter 2010	ND	2.3 J	ND	370	ND	ND
MW-137A	Intermediate	Third Quarter 2010	ND	ND	ND	5.0	ND	ND
MW-137B	Shallow	Third Quarter 2010	ND	1.5 J	ND	350	ND	ND
MW-137D	Deep	Third Quarter 2010	ND	ND	ND	5.8	ND	ND
MW-137E	Shallow	Third Quarter 2010	ND	12.0	ND	2700	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Table 3-8 - 2010 Monitoring Wells associated with Focused Extraction Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-121B	Shallow	First Quarter 2010	ND	ND	1.4	4.6	ND	ND
		Third Quarter 2010	ND	ND	0.48	0.83	ND	ND
MW-121E	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-122A	Intermediate	First Quarter 2010	ND	ND	0.064 J	ND	ND	ND
		Third Quarter 2010	ND	ND	0.052 J	ND	ND	ND
MW-122B	Intermediate	First Quarter 2010	ND	ND	0.58 J	1.3	ND	ND
		Third Quarter 2010	ND	ND	0.52 J	0.92	ND	ND
MW-123A	Intermediate	First Quarter 2010	ND	0.039 J	0.11 J	ND	ND	ND
		Third Quarter 2010	ND	ND	0.064 J	ND	ND	ND
MW-123B	Shallow	First Quarter 2010	ND	0.066 J	0.75	1.3	ND	ND
		Third Quarter 2010	ND	0.049 J	0.44	0.66	ND	ND
MW-128A	Intermediate	First Quarter 2010	ND	ND	0.72	2.7	ND	ND
		Second Quarter 2010	ND	ND	0.70	2.5	ND	ND
		Fourth Quarter 2010	ND	ND	0.67	2.0	ND	ND
MW-128B	Intermediate	First Quarter 2010	ND	0.034 J	1.4	5.2	ND	ND
		Second Quarter 2010	ND	0.031 J	1.4	4.6	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-8 - 2010 Monitoring Wells associated with Focused Extraction Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-128B	Intermediate	Fourth Quarter 2010	ND	0.020 J	1.2	3.2	ND	ND
MW-128D	Deep	First Quarter 2010	ND	0.027 J	0.11 J	0.25 J	ND	ND
		Second Quarter 2010	ND	ND	0.12 J	0.28 J	ND	ND
		Fourth Quarter 2010	ND	ND	0.10 J	0.27 J	ND	ND
MW-131A	Intermediate	First Quarter 2010	ND	ND	0.43	2.3	ND	ND
		Second Quarter 2010	ND	ND	0.38	2.1	ND	ND
		Fourth Quarter 2010	ND	ND	0.44	2.2	ND	ND
MW-131B	Shallow	First Quarter 2010	ND	ND	0.50	3.0	ND	ND
		Second Quarter 2010	ND	ND	0.51	2.8	ND	ND
		Fourth Quarter 2010	ND	ND	0.26	1.2	ND	ND
MW-131D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-132A	Intermediate	First Quarter 2010	ND	ND	0.44	1.7	ND	ND
		Second Quarter 2010	ND	ND	0.45	1.8	ND	ND
		Fourth Quarter 2010	ND	ND	0.59	2.2	ND	ND
MW-132B	Shallow	First Quarter 2010	ND	ND	0.72	3.1	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-8 - 2010 Monitoring Wells associated with Focused Extraction Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-132B	Shallow	Second Quarter 2010	ND	0.021 J	0.75	3.5	ND	ND
		Fourth Quarter 2010	ND	ND	0.83	3.7	ND	ND
MW-132D	Deep	First Quarter 2010	ND	ND	0.52	2.1	ND	ND
		Second Quarter 2010	ND	ND	0.50	2.0	ND	ND
		Fourth Quarter 2010	ND	ND	0.54	1.9	ND	ND
MW-119A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-119B	Shallow	Third Quarter 2010	ND	0.052 J	0.15 J	ND	ND	ND
MW-120A	Intermediate	Third Quarter 2010	ND	ND	0.051 J	ND	ND	ND
MW-120B	Shallow	Third Quarter 2010	ND	0.030 J	3.5 J	6.4	ND	ND
MW-120D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-120E	Intermediate	Third Quarter 2010	ND	ND	0.59 J	6.9	0.014 J	ND
MW-121A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-8 - 2010 Monitoring Wells associated with Focused Extraction Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-121B	Shallow	First Quarter 2010	ND	ND	ND	1.1	ND	ND
		Third Quarter 2010	ND	ND	ND	0.52 J	ND	ND
MW-121E	Intermediate	First Quarter 2010	ND	ND	ND	1.5	ND	ND
		Third Quarter 2010	ND	ND	ND	0.89 J	ND	ND
MW-122A	Intermediate	First Quarter 2010	ND	2.5 J	ND	230	ND	ND
		Third Quarter 2010	ND	2.3 J	ND	180	ND	ND
MW-122B	Intermediate	First Quarter 2010	ND	3.1 J	ND	820	ND	ND
		Third Quarter 2010	ND	2.3 J	ND	950	ND	ND
MW-123A	Intermediate	First Quarter 2010	ND	0.81 J	ND	7.2	ND	ND
		Third Quarter 2010	ND	0.68 J	ND	6.7	ND	ND
MW-123B	Shallow	First Quarter 2010	ND	0.37 J	ND	15.0	ND	ND
		Third Quarter 2010	ND	0.30 J	ND	11.0	ND	ND
MW-133A	Intermediate	Fourth Quarter 2010	ND	0.21 J	ND	25.0	ND	ND
MW-133B	Shallow	Fourth Quarter 2010	ND	ND	ND	3.0	ND	ND
MW-133D	Deep	Fourth Quarter 2010	ND	1.2 J	ND	150	ND	ND
MW-134A	Intermediate	Fourth Quarter 2010	ND	1.8	ND	44.0	ND	ND
MW-134B	Shallow	Fourth Quarter 2010	ND	11.0	ND	200	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-8 - 2010 Monitoring Wells associated with Focused Extraction Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-134D	Deep	Fourth Quarter 2010	ND	0.26 J	ND	50.0	ND	ND
MW-135A	Intermediate	Fourth Quarter 2010	ND	1.5	ND	70.0	ND	ND
MW-135B	Shallow	Fourth Quarter 2010	ND	20.0	ND	250	ND	ND
MW-135D	Deep	Fourth Quarter 2010	ND	3.6 J	ND	360	ND	ND
MW-119A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-119B	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-120A	Intermediate	Third Quarter 2010	ND	7.2	ND	340	ND	ND
MW-120B	Shallow	Third Quarter 2010	ND	12.0 J	ND	11000	ND	ND
MW-120D	Deep	Third Quarter 2010	ND	0.29 J	ND	ND	ND	ND
MW-120E	Intermediate	Third Quarter 2010	ND	18.0 J	ND	15000	ND	ND
MW-121A	Intermediate	Third Quarter 2010	ND	ND	ND	0.85 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Table 3-9 - 2010 Upgradient, Sidegradient and Downgradient Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-08A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-08B	Shallow	First Quarter 2010	ND	ND	0.057 J	1.1	ND	ND
MW-10A	Intermediate	First Quarter 2010	ND	0.056 J	0.44	0.12 J	ND	ND
MW-10B	Shallow	First Quarter 2010	ND	0.13 J	0.41	0.12 J	0.044 J	0.20
MW-129A	Intermediate	First Quarter 2010	ND	ND	0.067 J	0.26 J	ND	ND
		Second Quarter 2010	ND	ND	0.062 J	0.29 J	ND	ND
		Fourth Quarter 2010	ND	ND	0.033 J	0.20	ND	ND
MW-129B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.060 J	ND	ND
MW-129D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-25A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-25B	Shallow	First Quarter 2010	ND	ND	0.043 J	ND	ND	ND
MW-25D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-9 - 2010 Upgradient, Sidegradient and Downgradient Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-55A	Intermediate	First Quarter 2010	ND	ND	0.032 J	0.43	ND	ND
		Third Quarter 2010	ND	0.27 J	ND	0.26	0.030 J	ND
MW-55B	Shallow	First Quarter 2010	0.032 J	0.040 J	0.055 J	0.058 J	0.020 J	ND
		Third Quarter 2010	ND	ND	ND	0.043 J	ND	ND
MW-64B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-87A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-87B	Shallow	First Quarter 2010	ND	ND	ND	0.21	ND	ND
MW-87D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-146A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-146B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-89E	Intermediate	Fourth Quarter 2010	ND	ND	ND	0.18 J	ND	ND
		Baseline 2010	ND	ND	ND	0.32 J	ND	ND
MW-28A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
MW-28B	Shallow	Second Quarter 2010	ND	ND	ND	2.0	ND	ND
MW-28D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-9 - 2010 Upgradient, Sidegradient and Downgradient Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-33A	Intermediate	Second Quarter 2010	ND	ND	0.057 J	0.21	ND	ND
MW-33B	Shallow	Second Quarter 2010	ND	ND	0.051 J	0.045 J	ND	ND
MW-33D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
MW-94A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-94B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-94D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-9 - 2010 Upgradient, Sidegradient and Downgradient Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-08A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-08B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-10A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-10B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-25A	Intermediate	First Quarter 2010	ND	ND	ND	0.96 J	0.23 J	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-25B	Shallow	First Quarter 2010	ND	0.22 J	ND	20.0	ND	ND
MW-25D	Deep	First Quarter 2010	ND	ND	ND	1.0	0.25 J	ND
MW-55A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-55B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.43 J	ND	ND
MW-64B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-79A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-79B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-9 - 2010 Upgradient, Sidegradient and Downgradient Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-80A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-80B	Shallow	First Quarter 2010	ND	ND	ND	0.77 J	ND	ND
MW-80D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-87A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-87B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-87D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-89A	Intermediate	First Quarter 2010	ND	ND	ND	0.82 J	ND	ND
MW-89B	Shallow	First Quarter 2010	ND	ND	ND	1.7	ND	ND
MW-89D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-91A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-91B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-91D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-92A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-92B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-9 - 2010 Upgradient, Sidegradient and Downgradient Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-93A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-93B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-146A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-146B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-89E	Intermediate	Fourth Quarter 2010	ND	ND	ND	140	ND	ND
		Baseline 2010	ND	ND	ND	190	ND	ND
MW-06A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-10 - 2010 Non-Program Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-06-18D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-18S	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-31A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	0.035 J	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-31B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 3-10 - 2010 Non-Program Monitoring Well Sample Results

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-06-18D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-18S	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-31A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-31B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-1
2010 TCE and RDX Untreated and Post-Treatment Results
Groundwater Monitoring Program
Former Nebraska Ordnance Plant, Mead, Nebraska

Location	Event	TCE	RDX
WSW-52A (After GAC Treatment)	First Quarter 2010	ND	ND
	Third Quarter 2010	ND	ND
WSW-52A-B (Before GAC Treatment)	First Quarter 2010	ND	0.49
	Third Quarter 2010	ND	0.53
WSW-52C (After GAC Treatment)	First Quarter 2010	ND	ND
	Third Quarter 2010	ND	ND
WSW-52C-B (Before GAC Treatment)	First Quarter 2010	140	ND
	Third Quarter 2010	110	ND
WSW-53 (After GAC Treatment)	First Quarter 2010	ND	ND
	Third Quarter 2010	ND	ND
WSW-53-B (Before GAC Treatment)	First Quarter 2010	4.9	8.6
	Third Quarter 2010	5.4	10.9
WSW-54 (After GAC Treatment)	First Quarter 2010	ND	ND
	Third Quarter 2010	ND	ND
WSW-54-B (Before GAC Treatment)	First Quarter 2010	10	2.6
	Third Quarter 2010	15	3.5

Notes:
ND = non-detect
RDX = hexahydro-1,3,5-trinitro-1,3,5-triazine
TCE = trichloroethene
WSW = water supply well

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Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
UNFL-09A	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
UNFL-10A	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
UNFL-12	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
UNFL-27	First Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-100	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-102	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-103	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-104	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-105	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-106	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
WSW-109	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-110	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-111	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-112	First Quarter 2010	0.026 J	ND	0.038 J	0.19 J	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-113	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-115	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-116	First Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-29	First Quarter 2010	ND	ND	ND	0.80	ND	ND
	Third Quarter 2010	ND	ND	ND	0.92	ND	ND
WSW-29A	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	1.0	ND	ND
WSW-50A	First Quarter 2010	ND	ND	ND	0.054 J	ND	ND
	Third Quarter 2010	ND	ND	ND	0.040 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
WSW-50B	First Quarter 2010	ND	ND	ND	0.87	ND	ND
	Third Quarter 2010	ND	ND	ND	1.5	0.016 J	ND
WSW-51	First Quarter 2010	ND	ND	ND	0.063 J	ND	ND
	Third Quarter 2010	ND	ND	ND	0.13 J	ND	ND
WSW-51A	First Quarter 2010	ND	ND	ND	0.66	ND	ND
	Third Quarter 2010	ND	ND	ND	0.96	ND	ND
WSW-52A	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-52A-B	First Quarter 2010	ND	ND	ND	0.49	ND	ND
	Third Quarter 2010	ND	ND	ND	0.53	ND	ND
WSW-52B	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-52C	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-52C-B	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-53	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-53-B	First Quarter 2010	ND	ND	0.10 J	8.6	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
WSW-53-B	Third Quarter 2010	ND	ND	0.22	10.9	ND	ND
WSW-54	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-54-B	First Quarter 2010	ND	ND	0.10 J	2.6	ND	ND
	Third Quarter 2010	ND	0.042 J	0.23	3.5	ND	ND
WSW-55	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-56	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-57	First Quarter 2010	ND	0.038 J	0.045 J	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-58	First Quarter 2010	ND	ND	0.038 J	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-59	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-60	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
WSW-60	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-61	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-62	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-63	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-64	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-65	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-66	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-67	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-68	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-73	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
WSW-74	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-75	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-76	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-77	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-79	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-86	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-87	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-89	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-90	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-91	First Quarter 2010	ND	0.056 J	0.065 J	ND	0.026 J	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
WSW-91	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-92	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-93	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-95	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-96	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-97	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-99	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
UNFL-23	Third Quarter 2010	ND	0.22	0.26	ND	ND	ND
WSW-101	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-107	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-108	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-114	Third Quarter 2010	ND	0.022 J	ND	0.11 J	ND	ND
WSW-117	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
WSW-27	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-32	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-34	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-36	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-80	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-81	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-82	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-94	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
UNFL-09A	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
UNFL-10A	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
UNFL-12	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
UNFL-27	First Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-100	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-102	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-103	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-104	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-105	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-106	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
WSW-109	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-110	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-111	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-112	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-113	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-115	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-116	First Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-29	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-29A	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-50A	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
WSW-50B	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-51	First Quarter 2010	ND	ND	0.35 J	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-51A	First Quarter 2010	ND	ND	ND	0.37 J	ND	ND
	Third Quarter 2010	ND	ND	ND	0.60	ND	ND
WSW-52A	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-52A-B	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-52B	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-52C	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-52C-B	First Quarter 2010	ND	2.1	ND	140	ND	ND
	Third Quarter 2010	ND	2.4	ND	110	ND	ND
WSW-53	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-53-B	First Quarter 2010	ND	0.73	ND	4.9	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
WSW-53-B	Third Quarter 2010	ND	1.2	ND	5.4	ND	ND
WSW-54	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-54-B	First Quarter 2010	ND	0.43 J	ND	10.0	ND	ND
	Third Quarter 2010	ND	0.67	ND	15.0	ND	ND
WSW-55	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-56	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-57	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-58	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-59	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-60	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
WSW-60	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-61	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-62	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-63	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-64	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-65	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-66	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-67	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-68	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-73	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
WSW-74	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-75	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-76	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-77	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-79	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-86	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-87	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-89	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-90	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-91	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
WSW-91	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-92	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-93	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	11.0
WSW-95	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-96	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-97	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-99	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
UNFL-23	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-101	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-107	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-108	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-114	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-117	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-2 - 2010 Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
WSW-27	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-32	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-34	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-36	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-80	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-81	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-82	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-94	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-3 - 2010 Non-Program Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
WSW-118	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-119	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-120	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-121	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-122	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 4-3 - 2010 Non-Program Water Supply Well Sample Results

All Results for the Water Supply Well Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
WSW-118	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-119	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-120	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-121	Third Quarter 2010	ND	ND	ND	ND	ND	ND
WSW-122	Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Table 5-1
2010 Alternate Water Supply Maintenance Activities
Former Nebraska Ordnance Plant, Mead, Nebraska

Water Supply Unit	Approximate GAC Unit Installation Date	2010 GAC Unit Replacement History	Comment
50B	Not Applicable	Not Applicable	Supplied with bottled drinking water
52A	June 1994	December 9, 2010	Primary and secondary GAC vessels replaced by ECC per AWSS maintenance schedule Supplied with bottled drinking water in addition to GAC vessels
52C	April 2003	November 5, 2010	Primary and secondary GAC vessels replaced by ECC per AWSS maintenance schedule Supplied with bottled drinking water in addition to GAC vessels
53	November 1991	September 9, 2010	Primary and secondary GAC vessels replaced by ECC per AWSS maintenance schedule
54	February 1991	October 21, 2010	Primary and Secondary GAC vessels scheduled for replacement by ECC per AWSS maintenance schedule.

Notes:
GAC= Granulated Activated Carbon
AWSS = Alternate Water Supply Support

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Table 6-1 - 2010 Surface Water Sample Results

All Results for the Surface Water Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
ARTESIAN	First Quarter 2010	ND	0.025 J	0.062 J	2.2	ND	ND
	Second Quarter 2010	ND	0.022 J	0.051 J	2.3	ND	ND
	Third Quarter 2010	ND	ND	0.051 J	2.1	ND	ND
	Fourth Quarter 2010	ND	ND	0.064 J	2.4	ND	ND
SCW-04	First Quarter 2010	ND	ND	ND	ND	0.026 J	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SCW-05	First Quarter 2010	ND	ND	ND	ND	0.024 J	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SCW-06	First Quarter 2010	ND	ND	ND	ND	0.031 J	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SW-05	First Quarter 2010	ND	ND	ND	ND	0.074 J	ND

Table 6-1 - 2010 Surface Water Sample Results

All Results for the Surface Water Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
SW-05	Second Quarter 2010	0.25 J	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	0.044 J	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SW-06	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Second Quarter 2010	0.17 J	ND	ND	0.094 J	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	0.057 J	ND
SW-08	First Quarter 2010	ND	ND	0.077 J	1.2	ND	ND
	Second Quarter 2010	ND	ND	0.035 J	0.90	ND	ND
	Third Quarter 2010	ND	ND	ND	0.62	ND	ND
	Fourth Quarter 2010	ND	ND	0.16 J	1.4	ND	ND
SW-09	First Quarter 2010	ND	ND	ND	ND	0.020 J	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SW-10	First Quarter 2010	ND	ND	0.073 J	1.2	ND	ND
	Second Quarter 2010	ND	ND	0.076 J	1.3	ND	ND

Table 6-1 - 2010 Surface Water Sample Results

All Results for the Surface Water Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Explosives					
Location	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
SW-10	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	0.094 J	1.2	ND	ND
SW-11	First Quarter 2010	ND	ND	ND	ND	0.019 J	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SW-12	First Quarter 2010	ND	ND	ND	0.58 J	ND	ND
	Second Quarter 2010	ND	ND	ND	0.28	0.023 J	ND
	Third Quarter 2010	ND	ND	ND	0.34	ND	ND
	Fourth Quarter 2010	ND	ND	ND	0.48	ND	ND
SW-13	First Quarter 2010	ND	ND	ND	0.50 J	ND	ND
	Second Quarter 2010	ND	ND	ND	0.24	0.017 J	ND
	Third Quarter 2010	ND	ND	ND	0.25	ND	ND
	Fourth Quarter 2010	ND	ND	ND	0.49	ND	ND
SKI-001	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Table 6-1 - 2010 Surface Water Sample Results

All Results for the Surface Water Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**Methylene Chloride**	**TRANS-1,2-DCE**	**Vinyl Chloride**	**CIS-1,2-DCE**	**TCE**
ARTESIAN	First Quarter 2010	ND	ND	ND	ND	ND	110
	Second Quarter 2010	ND	ND	ND	ND	0.64 J	130
	Third Quarter 2010	ND	ND	ND	ND	0.96 J	140
	Fourth Quarter 2010	ND	ND	ND	ND	0.63 J	130
SCW-04	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SCW-05	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SCW-06	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SW-05	First Quarter 2010	ND	ND	ND	ND	ND	ND

Table 6-1 - 2010 Surface Water Sample Results

All Results for the Surface Water Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**Methylene Chloride**	**TRANS-1,2-DCE**	**Vinyl Chloride**	**CIS-1,2-DCE**	**TCE**
SW-05	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SW-06	First Quarter 2010	ND	ND	ND	ND	ND	0.28 J
	Second Quarter 2010	ND	ND	ND	ND	ND	0.27 J
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	0.21 J
SW-08	First Quarter 2010	ND	ND	ND	ND	0.36 J	20.0
	Second Quarter 2010	ND	ND	ND	ND	0.44 J	18.0
	Third Quarter 2010	ND	ND	ND	ND	ND	1.5
	Fourth Quarter 2010	ND	ND	ND	ND	0.49 J	25.0
SW-09	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SW-10	First Quarter 2010	ND	ND	ND	ND	0.32 J	15.0
	Second Quarter 2010	ND	ND	ND	ND	0.35 J	13.0

Table 6-1 - 2010 Surface Water Sample Results

All Results for the Surface Water Program

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

		Volatile Organic Compounds					
Location	**Event**	**1,2-DCP**	**Methylene Chloride**	**TRANS-1,2-DCE**	**Vinyl Chloride**	**CIS-1,2-DCE**	**TCE**
SW-10	Third Quarter 2010	ND	ND	ND	ND	ND	0.86 J
	Fourth Quarter 2010	ND	ND	ND	ND	0.34 J	17.0
SW-11	First Quarter 2010	ND	ND	ND	ND	ND	ND
	Second Quarter 2010	ND	ND	ND	ND	ND	ND
	Third Quarter 2010	ND	ND	ND	ND	ND	ND
	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
SW-12	First Quarter 2010	ND	ND	ND	ND	ND	2.3
	Second Quarter 2010	ND	ND	ND	ND	ND	2.6 J
	Third Quarter 2010	ND	ND	ND	ND	ND	4.9
	Fourth Quarter 2010	ND	ND	ND	ND	ND	3.9
SW-13	First Quarter 2010	ND	ND	ND	ND	ND	1.8
	Second Quarter 2010	ND	ND	ND	ND	ND	1.6
	Third Quarter 2010	ND	ND	ND	ND	ND	2.7
	Fourth Quarter 2010	ND	ND	ND	ND	ND	3.6
SKI-001	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Table 7-1
December 2010 Laboratory Proficiency Testing Results
Former Nebraska Ordnance Plant, Mead, Nebraska

	Certified Value	Lab Result	QC Performance Acceptance Limits
EXPLOSIVES - 8330			
RDX	1.86	1.82	1.17-2.23
TNB	8.7	8.36	5.29-10.2
TNT	17.5	17.2	11.6-21.0
2,4-DNT	6.61	6.92	4.7-8.59
2A-DNT	14.3	14.1	10.5-18.3
4A-DNT	11	10.6	7.8-14.0
VOCs - 8260			
TCE	13.7	13	10.2-16.3
1,2-DCP	19.1	19	14.8-23.5
Methylene Chloride	12.9	13	8.97-16.5
Vinyl Chloride	14	12	8.27-20.6
CIS-1,2-DCE	43.3	41	32.4-53.3
TRANS-1,2-DCE	4.63	4.7	3.44-5.79
VOCs - 524.2			
TCE	13.7	13	10.2-16.3
1,2-DCP	19.1	19	14.8-23.5
Methylene Chloride	12.9	13	8.97-16.5
Vinyl Chloride	14	15	8.27-20.6
CIS-1,2-DCE	43.3	45	32.4-53.3
TRANS-1,2-DCE	4.63	4.7	3.44-5.79

All results in micrograms per liter (µg/L)
Explosive and VOC methods 8330 and 8260 respectively were performed by TestAmerica of South Burlington, Vermont
VOC method 524.2 was performed by TestAmerica of Savannah, Georgia

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FIGURES

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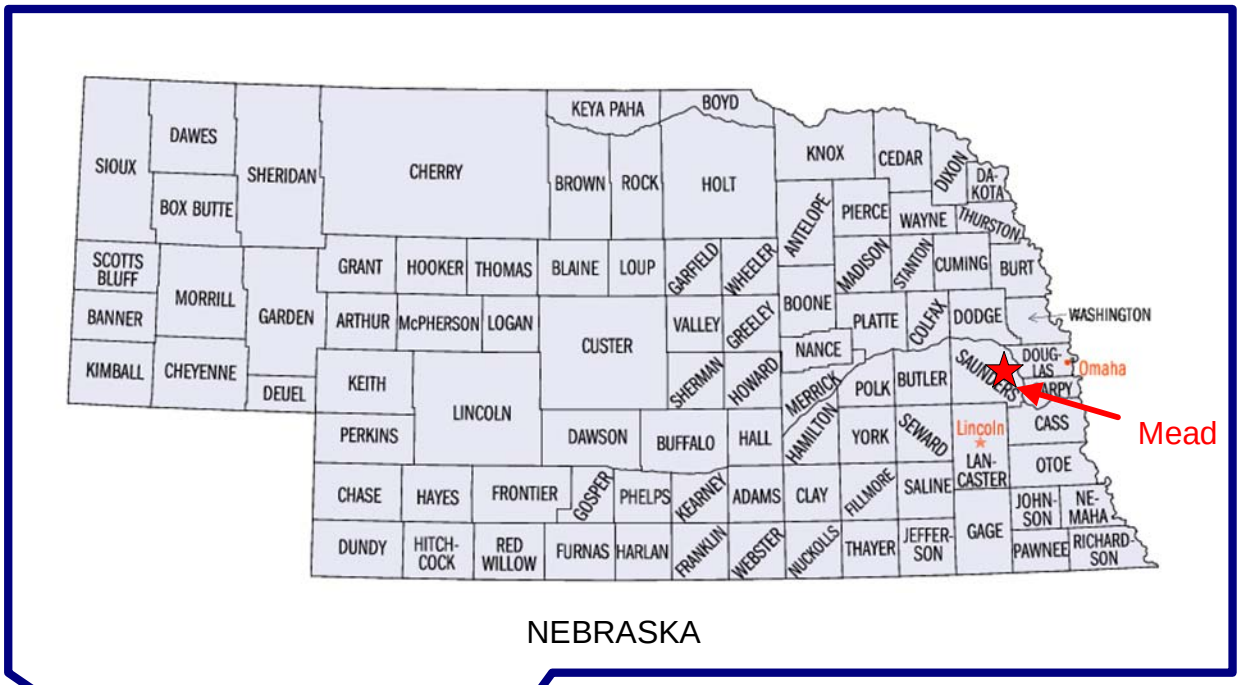

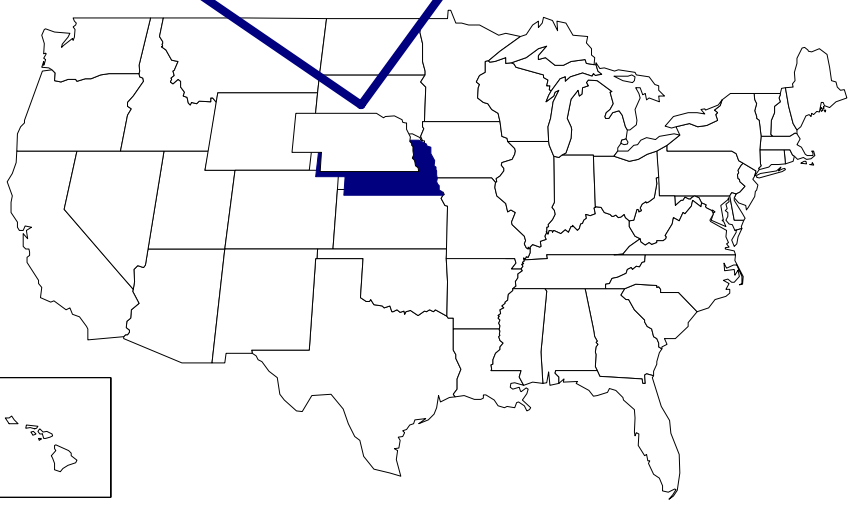

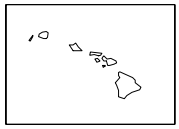

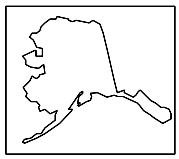

ECC	US Army Corps of Engineers® Kansas City District	
Designed by: DM	FORMER NEBRASKA ORDNANCE PLANT MEAD, NEBRASKA	
Drawn by: ROW	Site Location Map	
Checked by: BB		
Submitted by: MJ	Drawing No: Figure 1-1	Date: 1/8/2010

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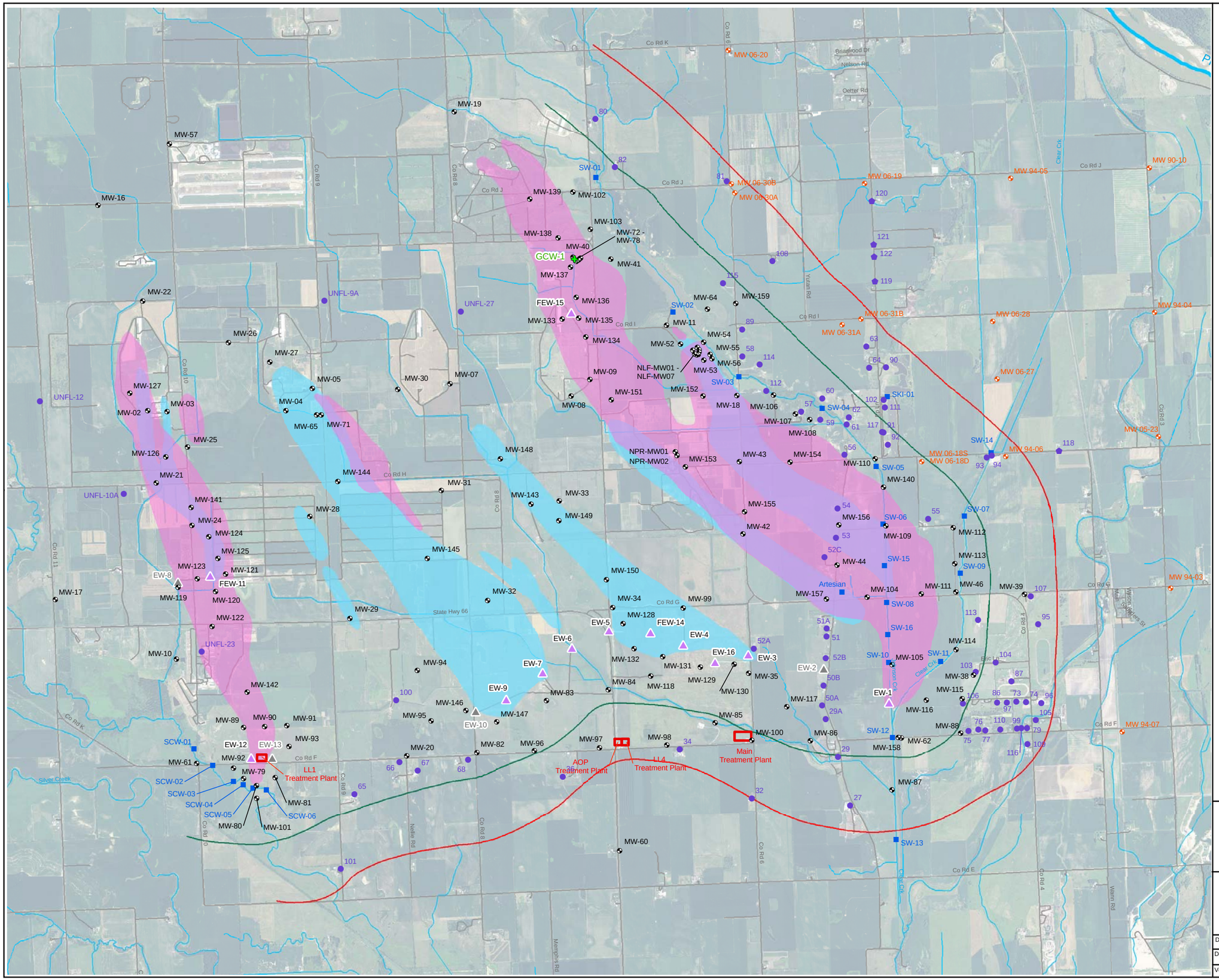

Legend

- **Groundwater Monitoring Well/Well Cluster**
- Water Supply Well
- Non-program Water Supply Well
- **Inactive Groundwater Extraction Well**
- **Active Groundwater Extraction Well**
- **Groundwater Circulation Well**
- **Metropolitan Utility District Monitoring Well**
- **Surface Water Sample**
- **Treatment Plant**
- **One-Mile Buffer Zone**
- **Half-Mile Buffer Zone**

Contaminant Plumes

- Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)
- Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)
- Approximate Area of Both TCE at a Concentration of 5 ug/L or Greater and RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene

RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine

ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000

Feet

US Army Corps of Engineers
Kansas City District

Figure 1-2
Site Layout

Drawn by: M Johanson	Reviewed by: D Dander	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 1/31/2011	Date: 2/4/2011	
Version:	Revision Date / Initials: 2/7/2011 MGJ	

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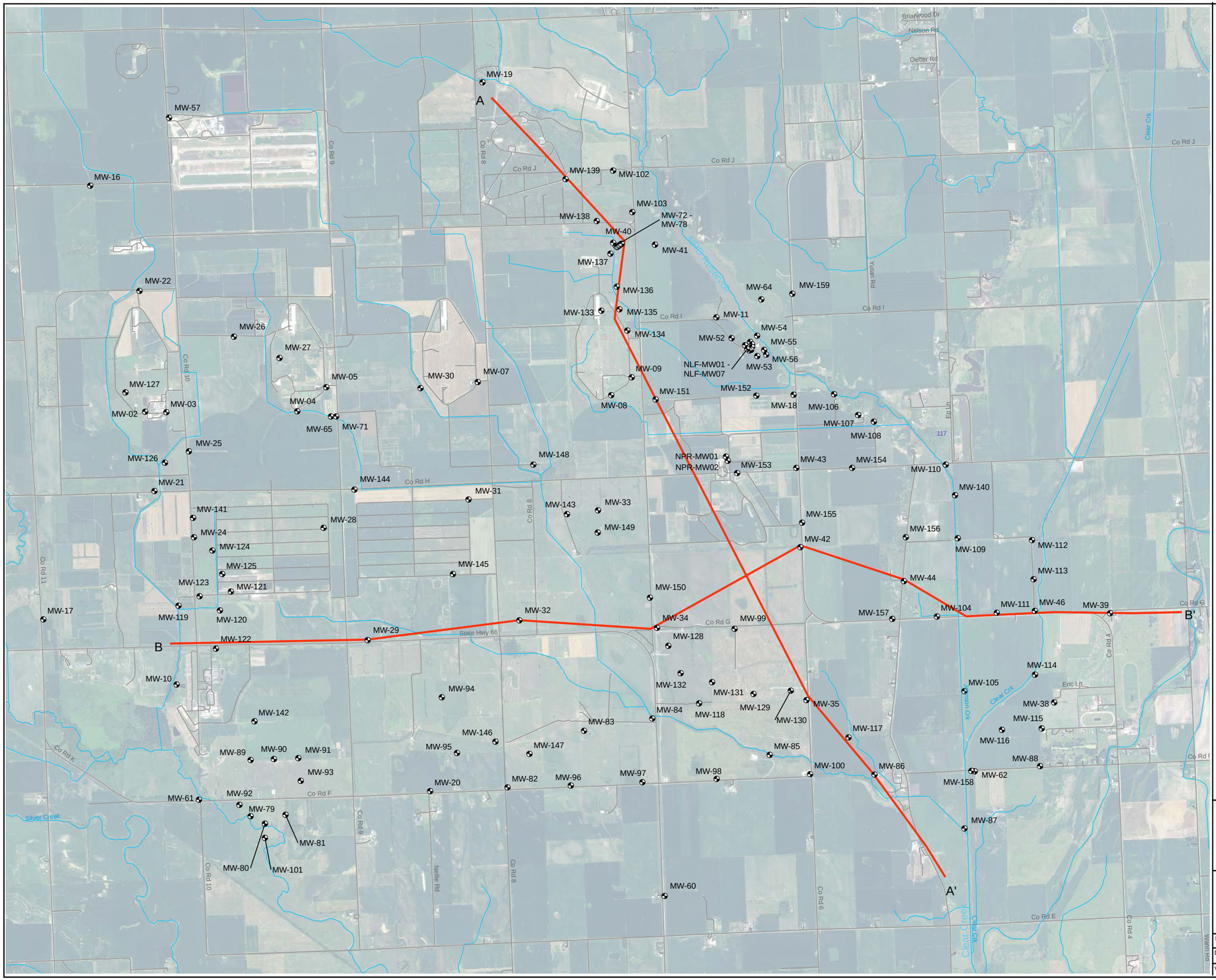

Legend

Groundwater Monitoring Well/Well Cluster

Cross Section Locations

(Note: See Figures 2-2a and 2-2b for cross sections.)

N

0 1,125 2,250 4,500 6,750 9,000

Feet

US Army Corps of Engineers ®
Kansas City District

Figure 2-1
Cross Section Locations

Drawn by: M Johanson	Reviewed by: D Dander	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 1/31/2011	Date: 2/3/2011	
Version:	Revision Date / Initials: 2/8/2011 MGJ	

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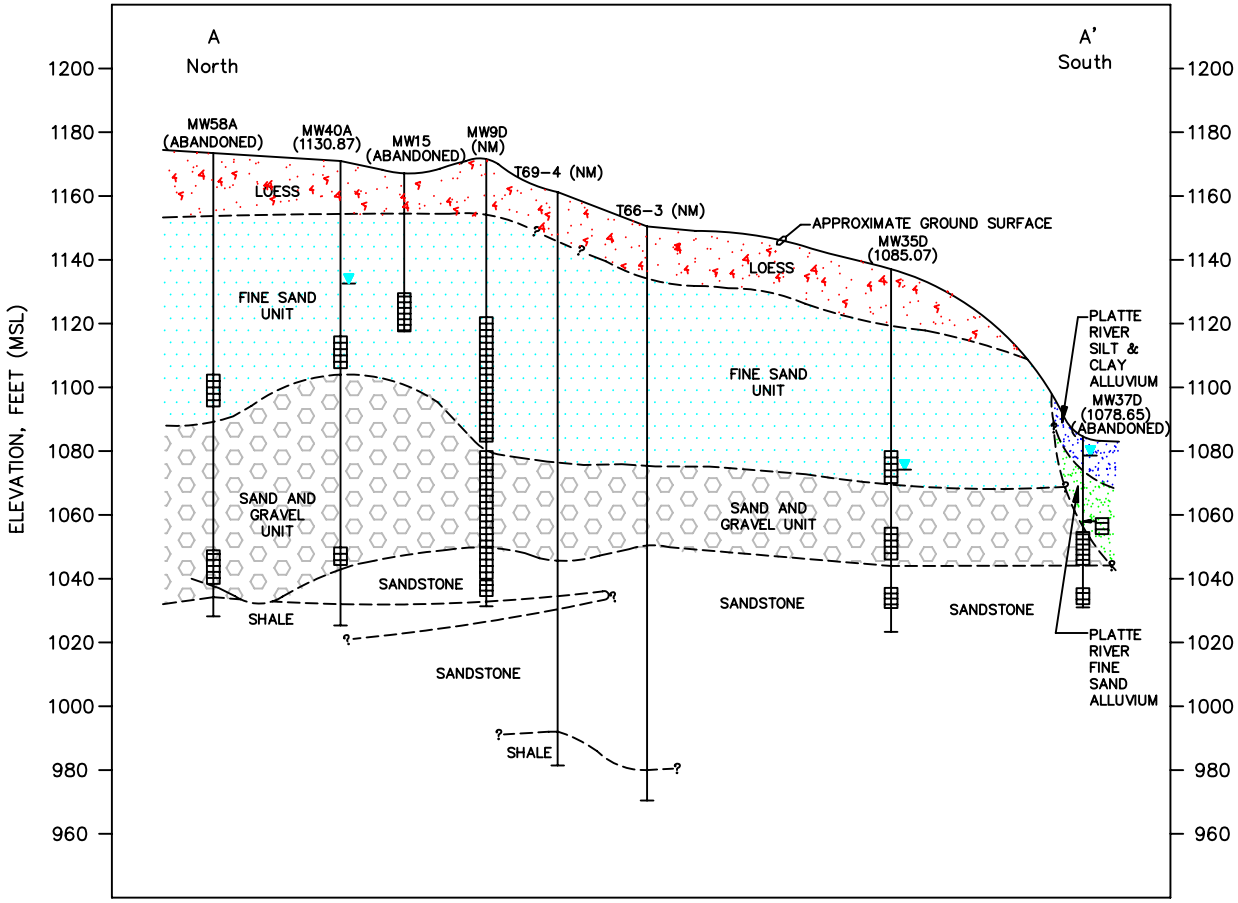

LEGEND:

MW58A	LOCATION OF DEEPEST MONITORING WELL BORING IN EACH CLUSTER
T69-4	ARDC TEST HOLE LOCATION (PISKIN, 1971)
	SCREENED INTERVAL FOR EACH WELL IN CLUSTER
	GROUNDWATER LEVEL FOR INTERMEDIATE ZONE AS MEASURED IN MARCH 2009

NOTES:

1. SUBSURFACE GEOLOGIC CONDITIONS ARE BASED ON SAMPLE DESCRIPTIONS FROM MONITORING WELL BORING LOGS, DOWNHOLE GEOPHYSICAL LOGS OF MONITORING WELLS, AND ARDC TEST HOLE LOGS (PISKIN, 1971). GEOLOGIC CONDITIONS SHOWN AWAY FROM BORINGS ARE INTERPRETIVE.
2. SEE FIGURE 2-1 FOR CROSS-SECTION LOCATIONS.
3. VERTICAL EXAGGERATION 100X.
4. ALL SANDSTONES AND SHALES IN THIS CROSS-SECTION ARE PART OF THE OMADI SANDSTONE FACIES.
5. THE UPPER SCREENED INTERVAL OF THE MW-37 CLUSTER IS SHOWN OFFSET FROM THE WELL.
6. UPDATED FROM CROSS SECTIONS IN REMEDIAL INVESTIGATION REPORTS (WOODWARD-CLYDE, 1993a)

4000 0 4000 8000

SCALE FEET

US Army Corps of Engineers
Kansas City District

Figure 2-2a
Geologic Cross Section A-A'

Drawn by: MGJ	Reviewed by: PLS	Notes and Sources: Units: Feet
Date: February 23, 2009	Date: February 7, 2011	
Version:	Revision Date/Initials: February 8, 2011 MGJ	

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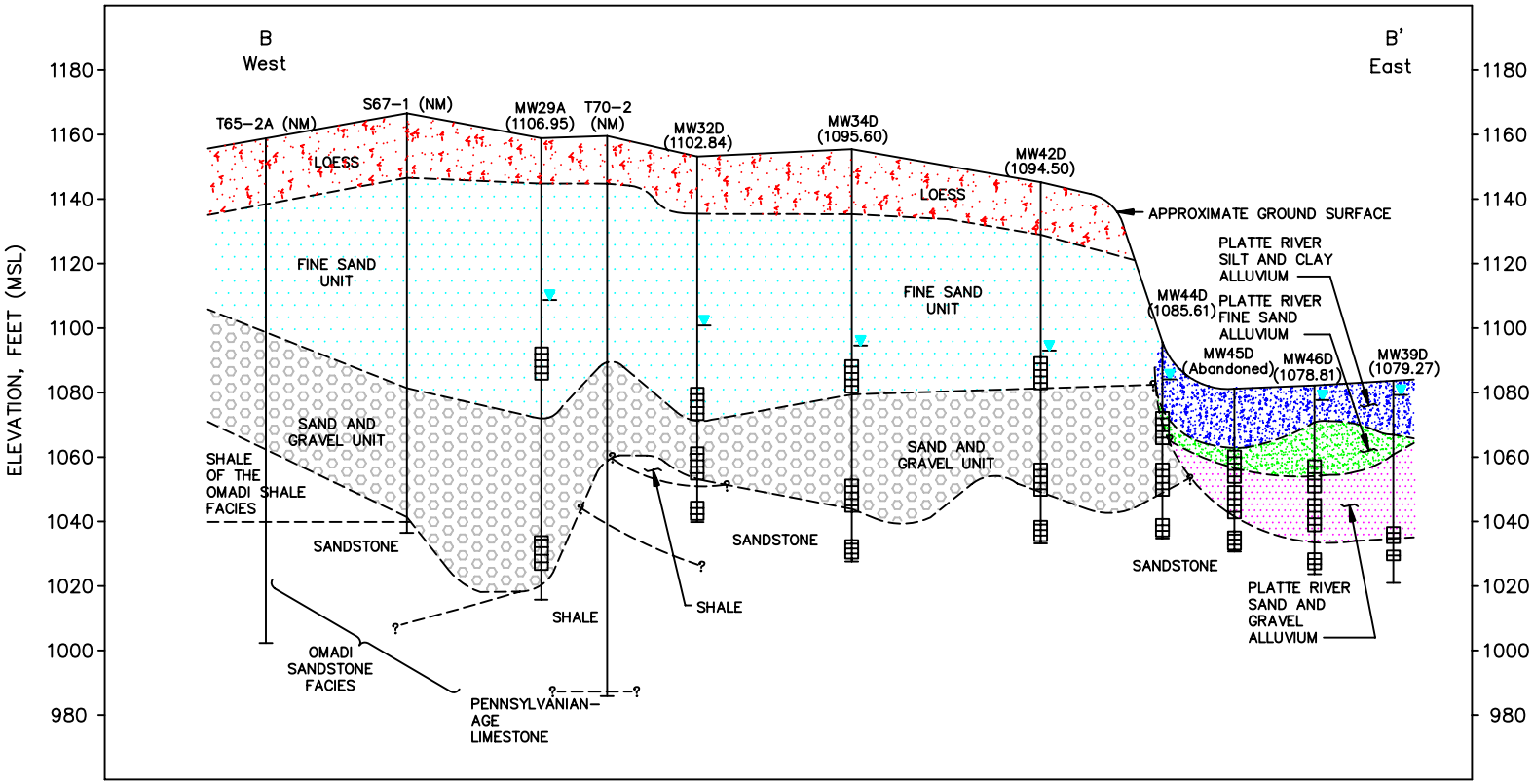

4000 0 4000 8000

SCALE FEET

LEGEND:

MW29A LOCATION OF DEEPEST MONITORING WELL BORING IN EACH CLUSTER

T70-2 ARDC TEST HOLE LOCATION (PISKIN, 1971)

SCREENED INTERVAL FOR EACH WELL IN CLUSTER

GROUNDWATER LEVEL FOR THE INTERMEDIATE ZONE AS MEASURED IN MARCH 2009

NOTES:

1. SUBSURFACE GEOLOGIC CONDITIONS ARE BASED ON SAMPLE DESCRIPTIONS FROM MONITORING WELL BORING LOGS, DOWNHOLE GEOPHYSICAL LOGS OF MONITORING WELLS, AND ARDC TEST HOLE LOGS (PISKIN, 1971). GEOLOGIC CONDITIONS SHOWN AWAY FROM BORINGS ARE INTERPRETIVE.
2. SEE FIGURE 2-1 FOR CROSS-SECTION LOCATIONS.
3. VERTICAL EXAGGERATION 100X.
4. UPDATED FROM CROSS SECTIONS IN REMEDIAL INVESTIGATION REPORTS (WOODWARD-CLYDE, 1993a)

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Figure 2-2b
Geologic Cross Section B-B'

Drawn by: MGJ	Reviewed by: PLS	Notes and Sources: Units: Feet
Date: February 23, 2009	Date: February 7, 2011	
Version:	Revision Date/Initials: February 8, 2011 MGJ	

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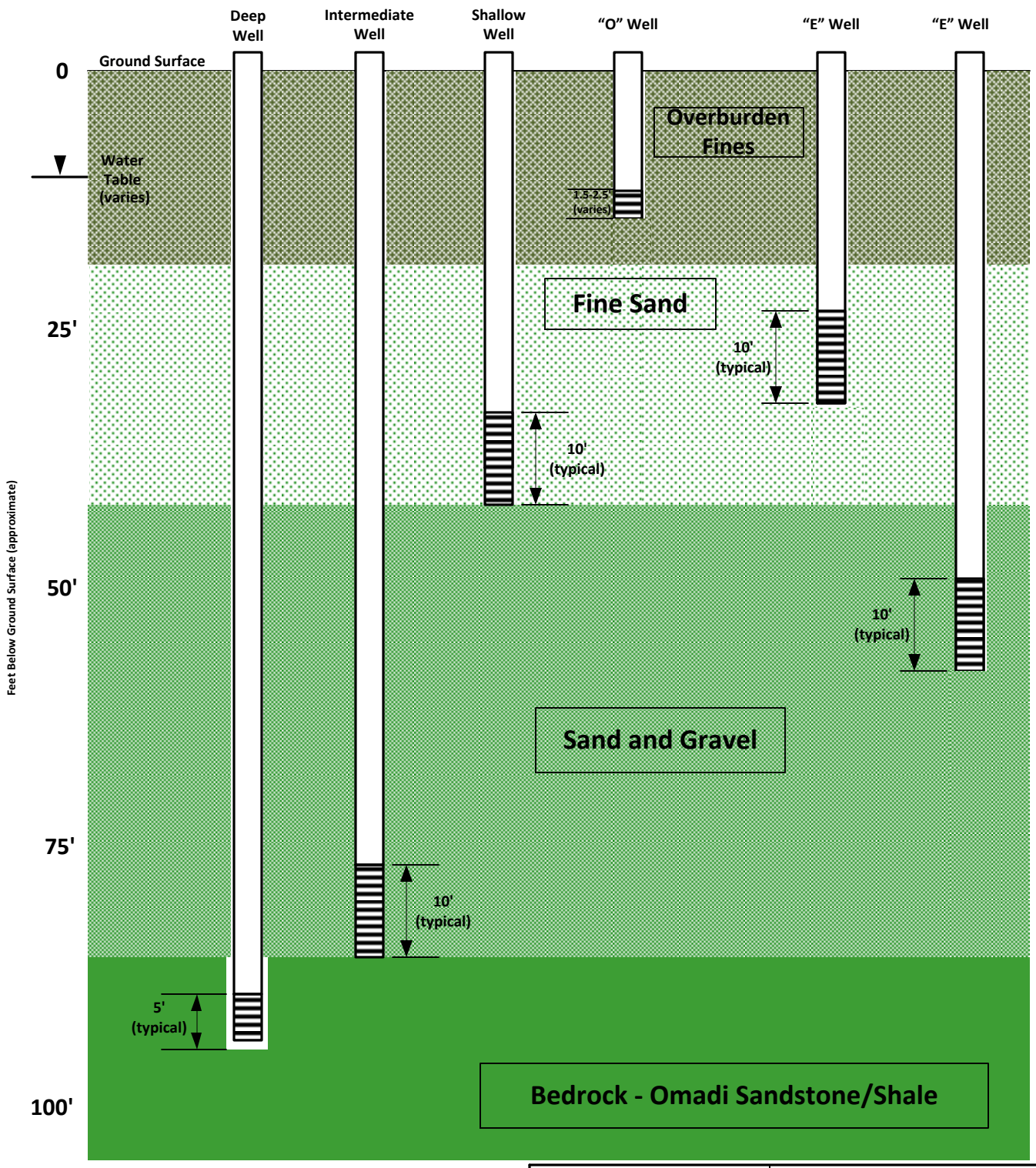

ECC

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Typical Monitoring Well Depth Intervals and Designations

Drawing No:	Date:
Figure 2-3	3/1/2010

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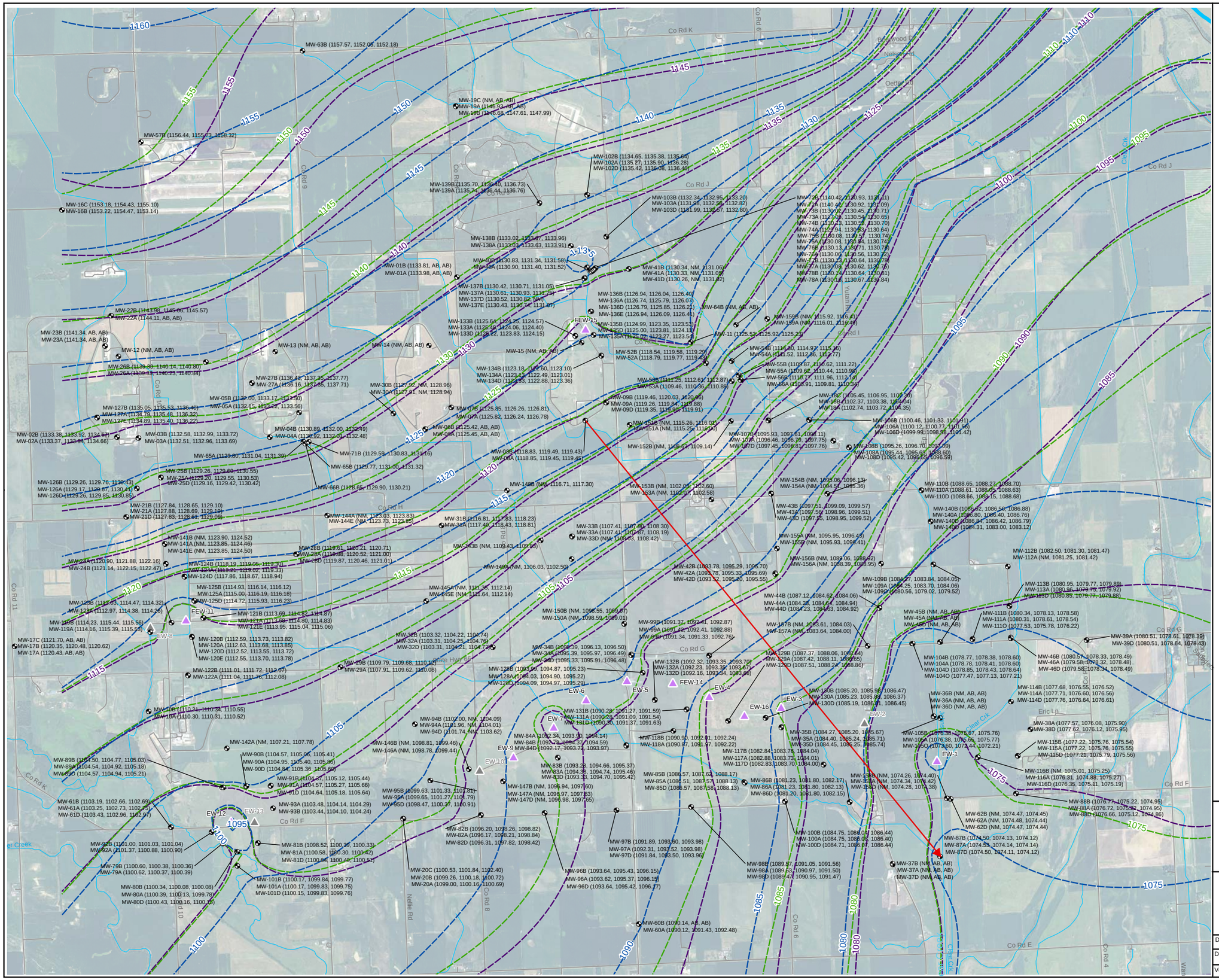

Legend

- Groundwater Monitoring Well/Well Cluster (with March, August, and October 2010 Groundwater Elevations)
- Inactive Groundwater Extraction Well
- Active Groundwater Extraction Well
- March 2010 Potentiometric Contour Lines
- August 2010 Potentiometric Contour Lines
- October 2010 Potentiometric Contour Lines
- Direction of Groundwater Flow and Calculation of Groundwater Gradient

NOTES:

1) Observation wells are not plotted on this map; however, observation well water levels were used in its construction.
2) The 5-foot contour interval does not illustrate drawdown at all extraction wells.
3) Hydraulic Gradient (i) calculations between MW-08A and MW-87A:
   March 2010 = 0.0023
   August, October 2010 = 0.0024

NM = Not Measured
AB = Abandoned

N

0 1,125 2,250 4,500 6,750 9,000
Feet

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Kansas City District

Figure 2-4
Potentiometric Surface of the Intermediate Zone
March, August, and October 2010

Drawn by: M Johanson	Reviewed by: D Dander	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 2/4/2011	Date: 2/7/2011	
Version:	Revision Date / Initials: 2/8/2011 MGJ	

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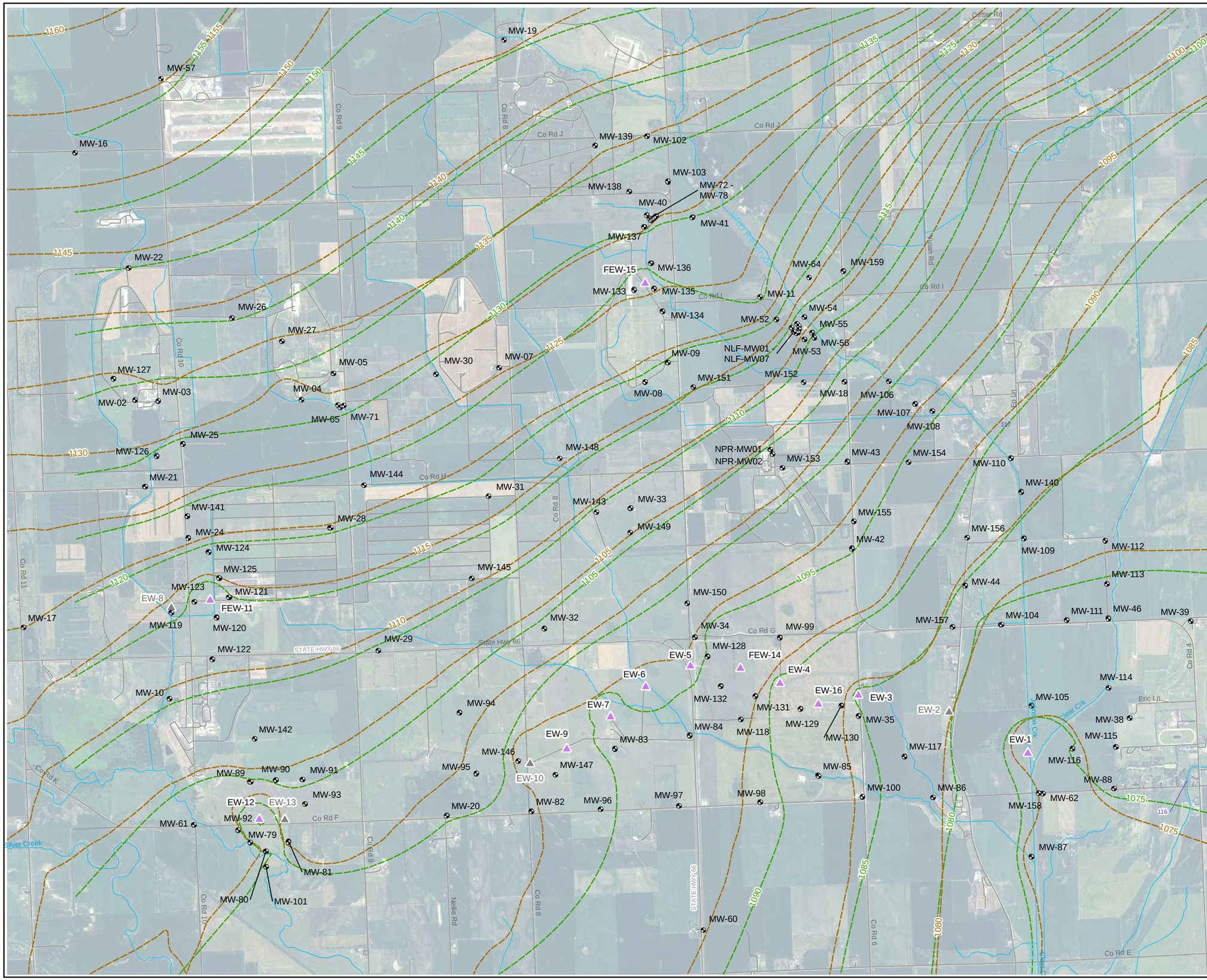

Legend

- Groundwater Monitoring Well/Well Cluster
- Inactive Groundwater Extraction Well
- Active Groundwater Extraction Well
- August 2009 Potentiometric Contour Lines
- August 2010 Potentiometric Contour Lines

NOTES:
1) Contour Interval = 5 feet
2) Observation wells are not plotted on this map; however, observation well water levels were used in its construction.
3) The 5-foot contour interval does not illustrate drawdown at all extraction wells.

N

0 1,000 2,000 4,000 6,000 8,000
Feet

US Army Corps of Engineers
Kansas City District

Figure 2-5
Potentiometric Surface of the Intermediate Zone
August 2009 and August 2010

Drawn by: M Johanson	Reviewed by: D Dander	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 2/03/2011	Date: 2/7/2011	
Version:	Revision Date / Initials: 2/8/2011 MGJ	

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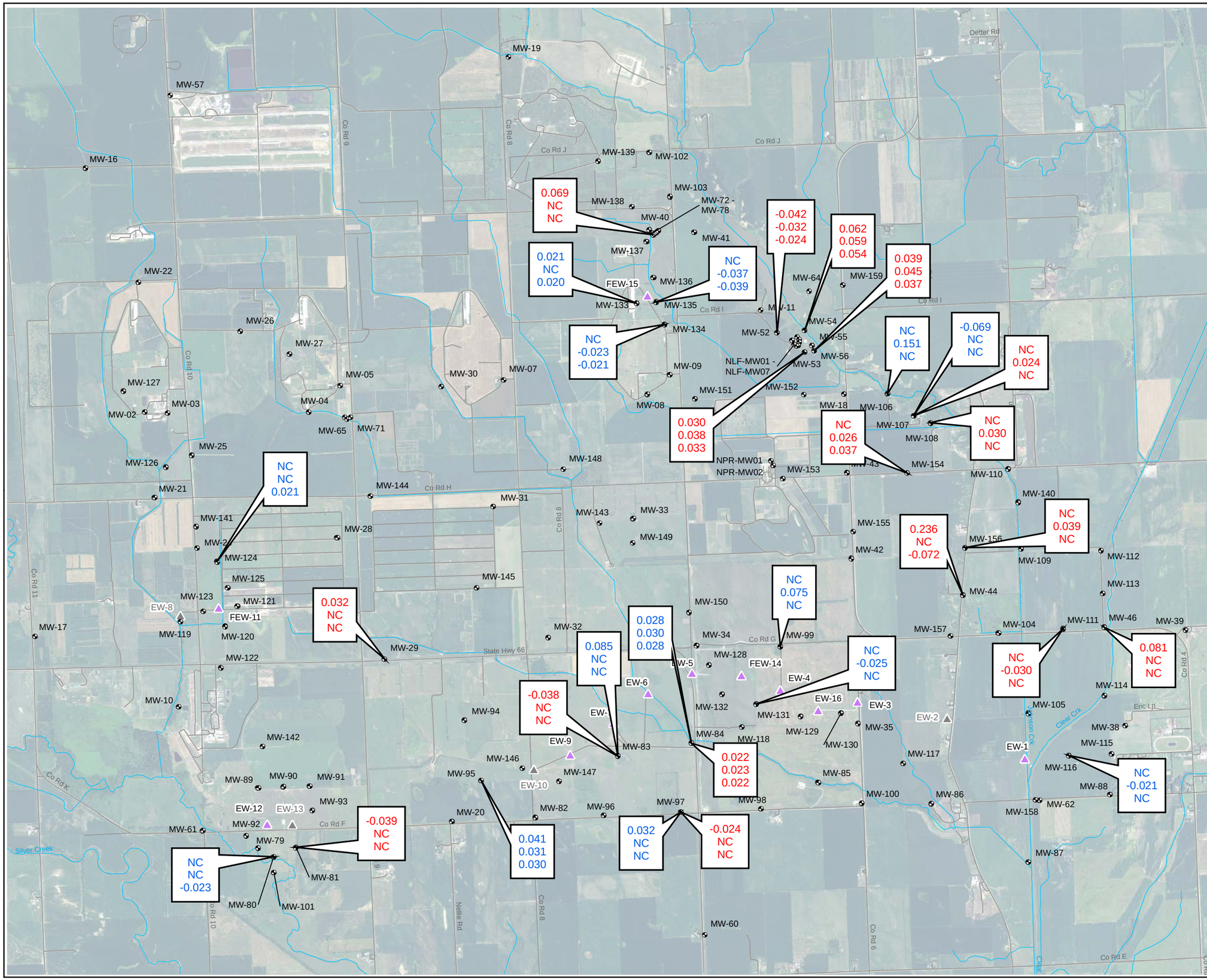

Legend

- Groundwater Monitoring Well/Well Cluster
- Inactive Groundwater Extraction Well
- Active Groundwater Extraction Well

0.030
0.031
0.034
Vertical hydraulic gradient between the Shallow Aquifer and the Intermediate Aquifer for March, August, and October

0.030
0.031
0.034
Vertical hydraulic gradient between the Intermediate Aquifer and the Deep Aquifer for March, August, and October

NOTES:
1) Vertical gradient values are in feet of head per feet between screened intervals. Positive vertical gradient indicates downward flow and negative vertical gradient indicates upward flow.
2) NC = Not calculated.

N

0 1,000 2,000 4,000 6,000 8,000
Feet

US Army Corps of Engineers
Kansas City District

Figure 2-6
Vertical Gradients

Drawn by: M Johanson	Reviewed by: D Dander	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 2/04/2011	Date: 2/7/2011	
Version:	Revision Date / Initials: 2/8/2011 MGJ	

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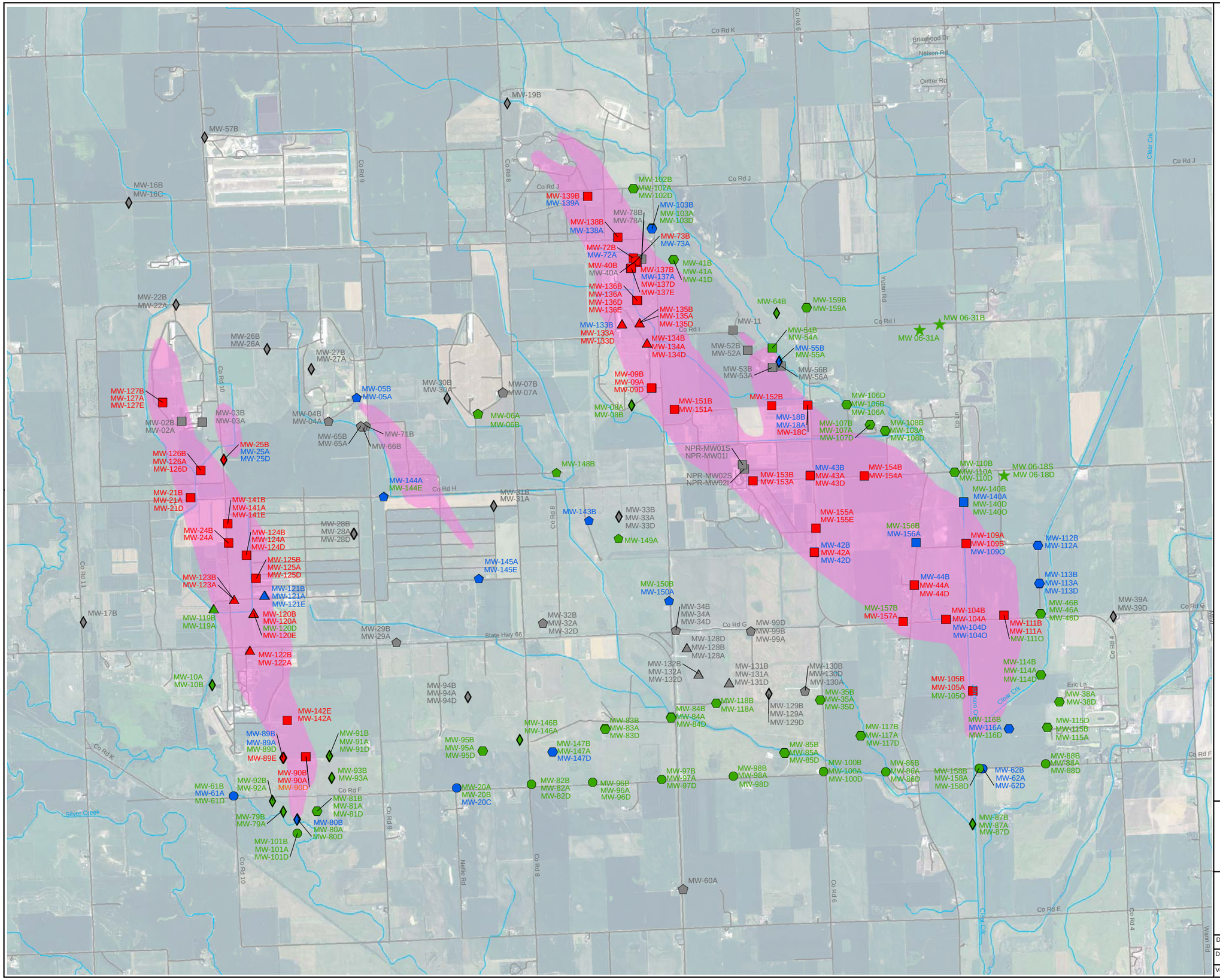

Legend

- Compliance Well
- Load Line 1 and Load Line 4 Interior Plume Monitoring Well
- Load Line 2 and Load Line 3 Interior Plume Monitoring Well
- Focused Extraction Monitoring Well
- Perimeter Monitoring Well
- Upgradient/Sidegradient/Downgradient Monitoring Well
- Non-program Monitoring Well

Red - TCE Detected Above 5 ug/L

Blue - TCE Detected Below 5 ug/L

Green - TCE Not Detected

Gray - Well Not Sampled for TCE in 2010

Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)

NOTE:
TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene
ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000

Feet

US Army Corps of Engineers
Kansas City District

Figure 3-1
TCE Results for Monitoring Wells
2010 Sampling Events

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 1/31/2011	Date: 2/3/2011	
Version:	Revision Date / Initials: 2/9/2011 MGJ	

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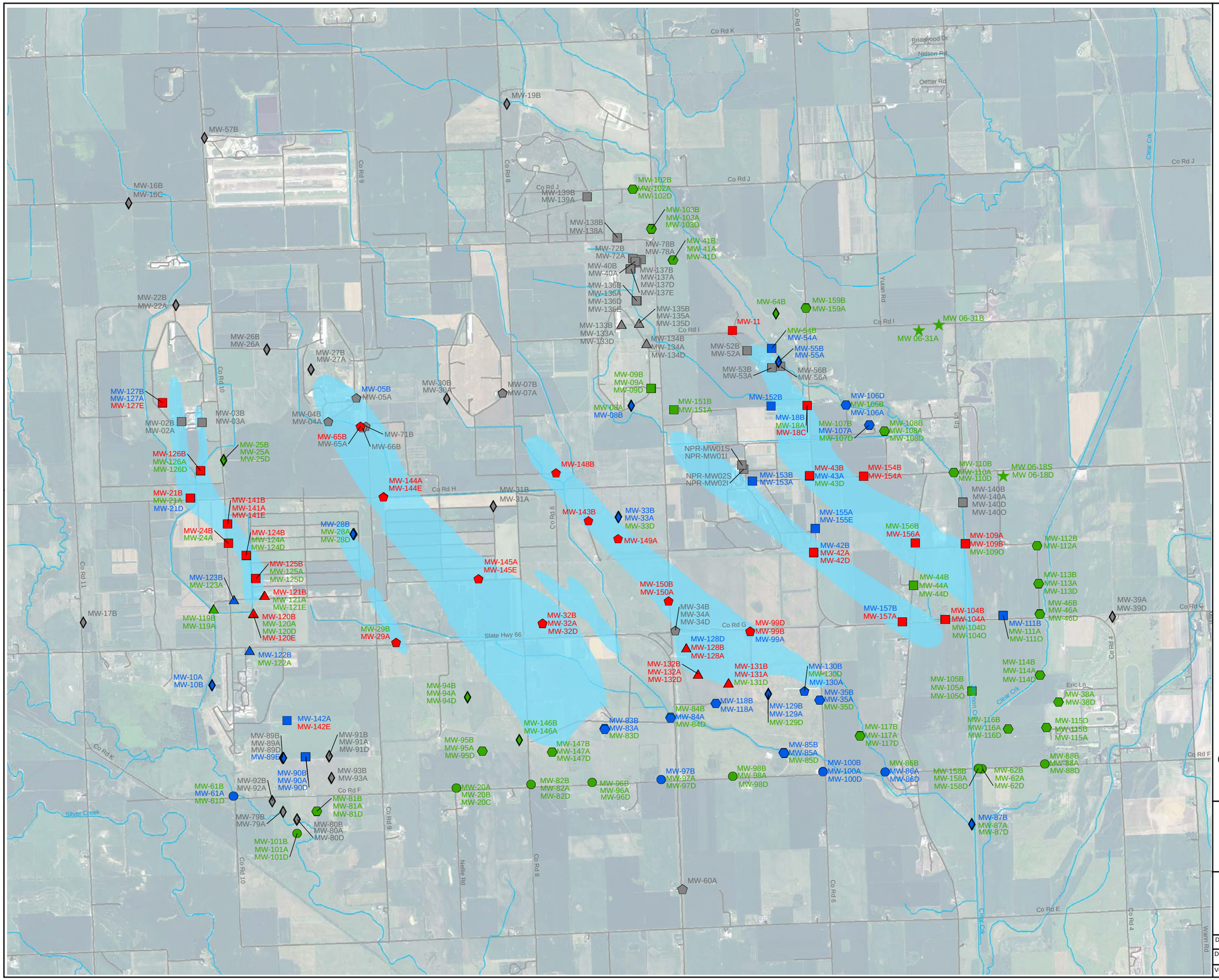

Legend

- Compliance Well
- Load Line 1 and Load Line 4 Interior Plume Monitoring Well
- Load Line 2 and Load Line 3 Interior Plume Monitoring Well
- Focused Extraction Monitoring Well
- Perimeter Monitoring Well
- Upgradient/Sidegradient/Downgradient Monitoring Well
- Non-program Monitoring Well

Red -RDX Detected Above 2 ug/L

Blue - RDX Detected Below 2 ug/L

Green - RDX Not Detected

Gray - Well Not Sampled for RDX in 2010

Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:
TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

RDX - Hexahydro-1,3,5-trinitro-1,3,5-triazine
ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000
Feet

US Army Corps of Engineers
Kansas City District

Figure 3-2
RDX Results for Monitoring Wells 2010 Sampling Events

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 1/31/2011	Date: 2/3/2011	
Version:	Revision Date / Initials: 2/9/2011 MGJ	

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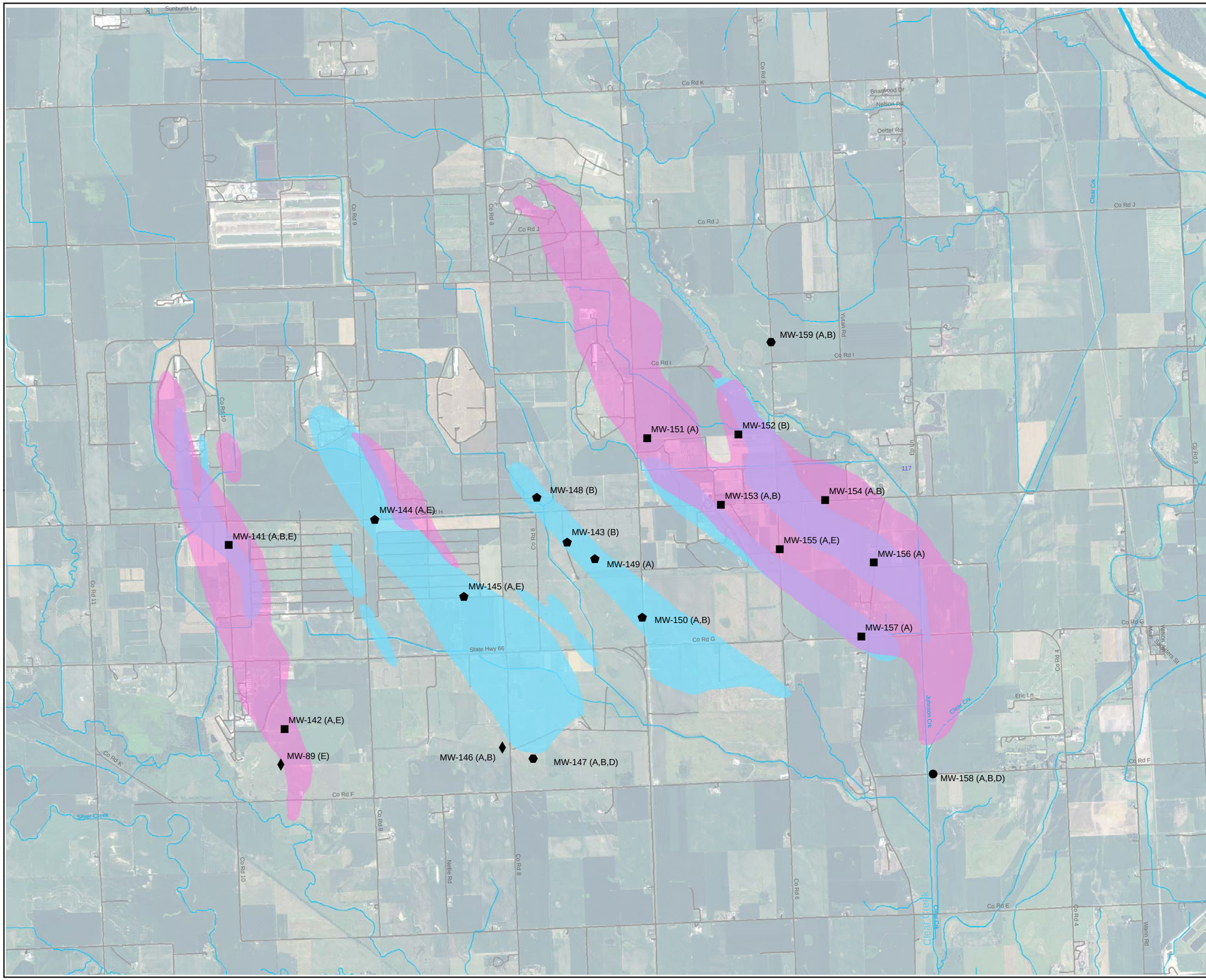

Legend

Well Location

- ■ Load Line 1 and Atlas Missile Area Interior Plume
- ⬟ Load Lines 2 and 3 Interior Plume
- ♦ Upgradient, Sidegradient, Downgradient
- ⬢ Perimeter Monitoring Well
- ● Compliance Monitoring Well

Contaminant Plumes

- Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)
- Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)
- Approximate Area of Both TCE at a Concentration of 5 ug/L or Greater and RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene

RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine

ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000

Feet

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Kansas City District

Figure 3-3
Baseline Monitoring Well Locations

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 2/4/2011	Date: 2/7/2011	
Version:	Revision Date / Initials: 2/9/2011 MGJ	

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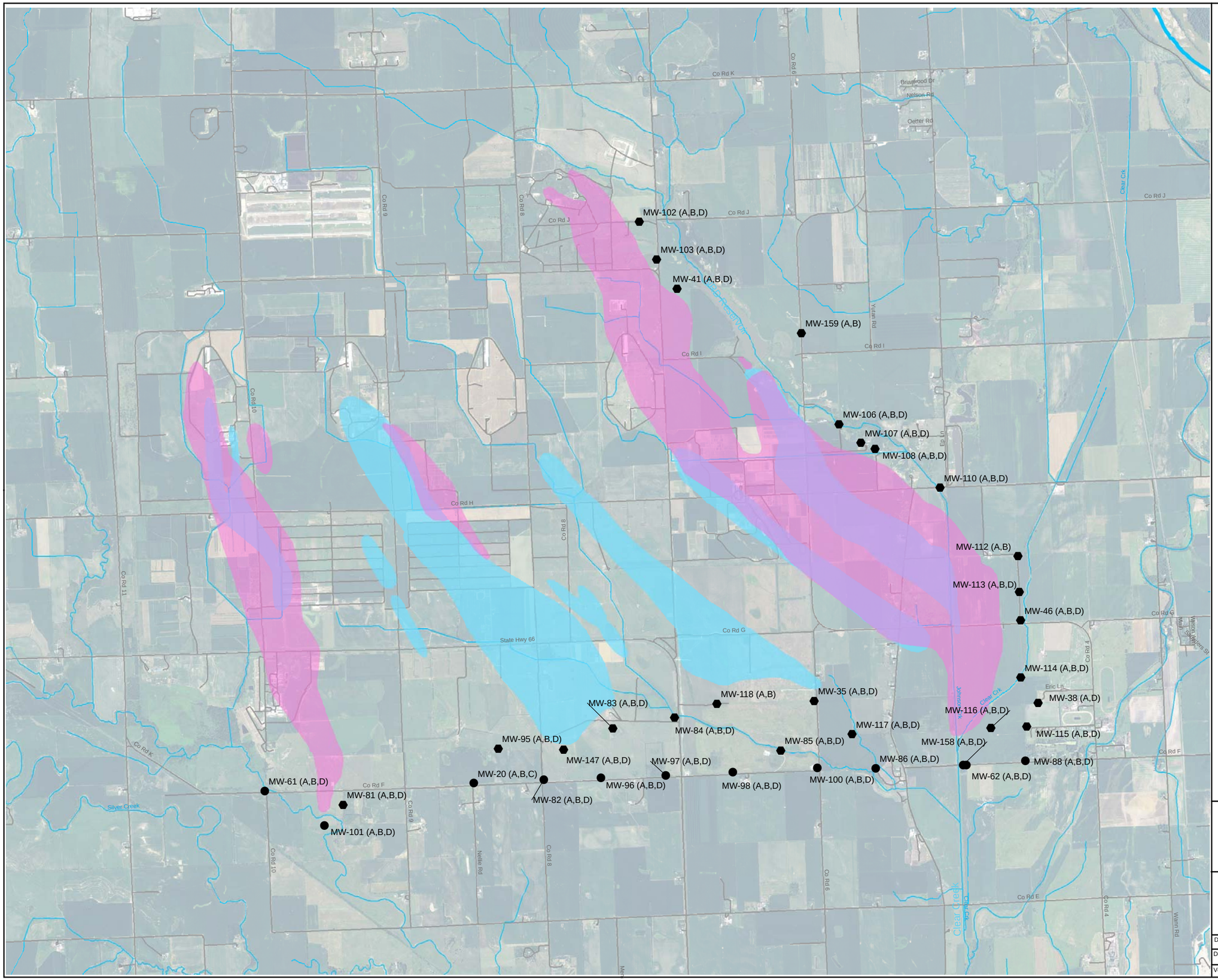

Legend

- Compliance Monitoring Well
- Perimeter Monitoring Well

Contaminant Plumes

- Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)
- Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)
- Approximate Area of Both TCE at a Concentration of 5 ug/L or Greater and RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene

RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine

ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000

Feet

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Kansas City District

Figure 3-4
Perimeter and Compliance Monitoring Well Locations

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 2/4/2011	Date: 2/7/2011	
Version:	Revision Date / Initials: 2/9/2011 MGJ	

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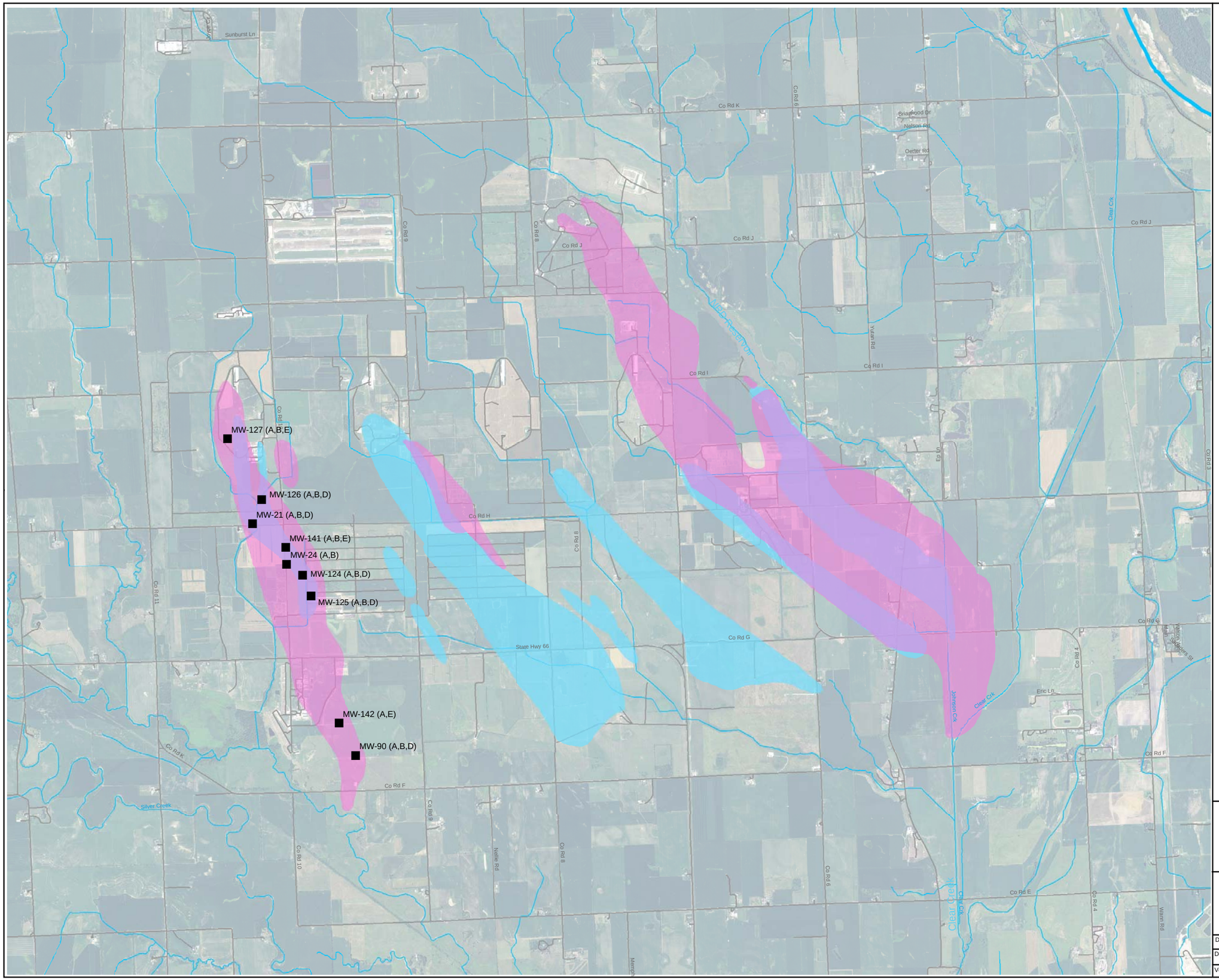

Legend

■ LL1 Interior Plume Monitoring Well

Contaminant Plumes

- Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)
- Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)
- Approximate Area of Both TCE at a Concentration of 5 ug/L or Greater and RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene

RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine

ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000

Feet

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Kansas City District

Figure 3-5
Interior LL1 Plume Monitoring Well Locations

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 2/4/2011	Date: 2/7/2011	
Version:	Revision Date / Initials: 2/9/2011 MGJ	

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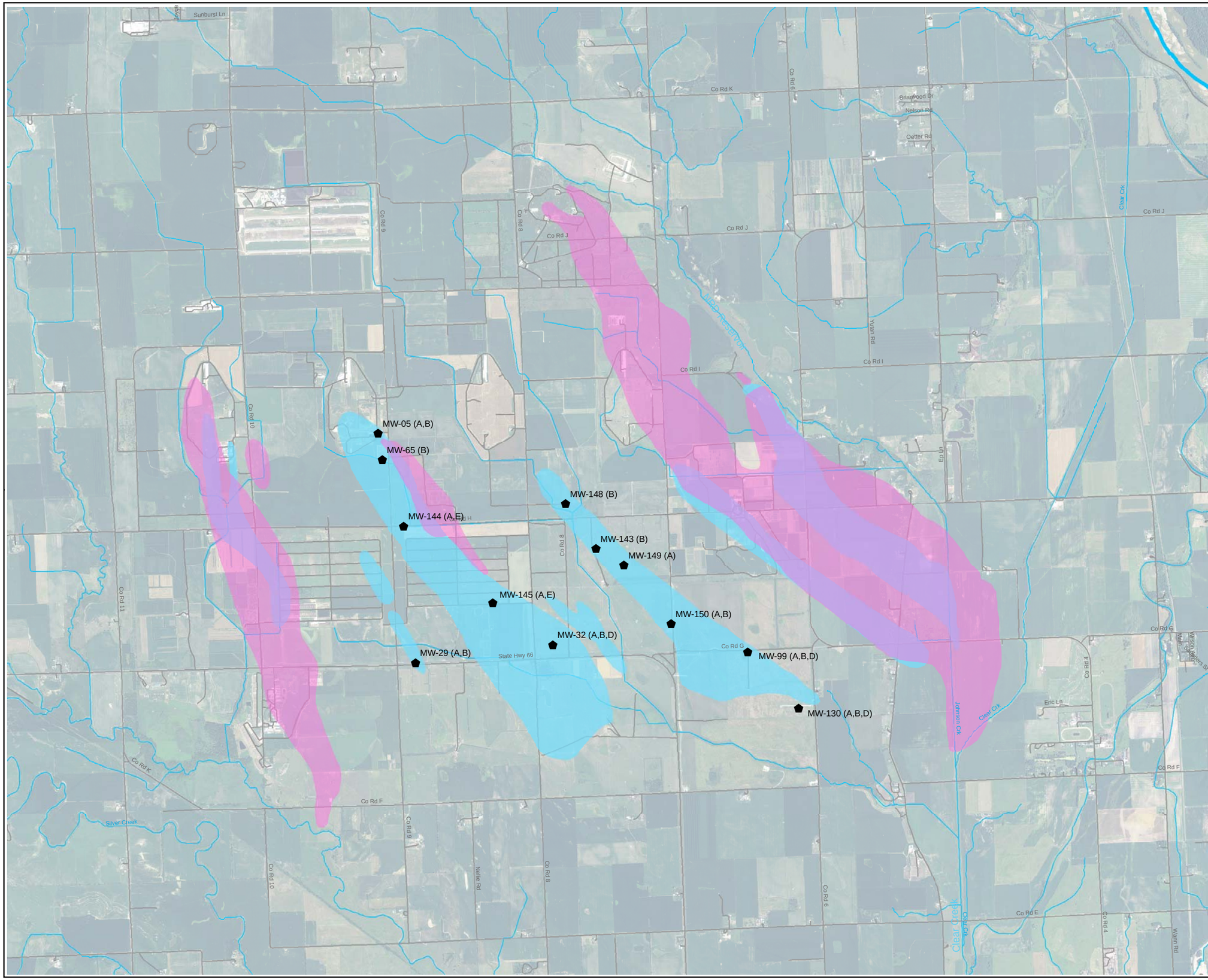

Legend

Interior LL2 and LL3 Monitoring Wells

Contaminant Plumes

Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)

Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)

Approximate Area of Both TCE at a Concentration of 5 ug/L or Greater and RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene

RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine

ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000

Feet

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Kansas City District

Figure 3-6
Interior LL2 and LL3 Plume Monitoring Well Locations

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 2/4/2011	Date: 2/7/2011	
Version:	Revision Date / Initials: 2/9/2011 MGJ	

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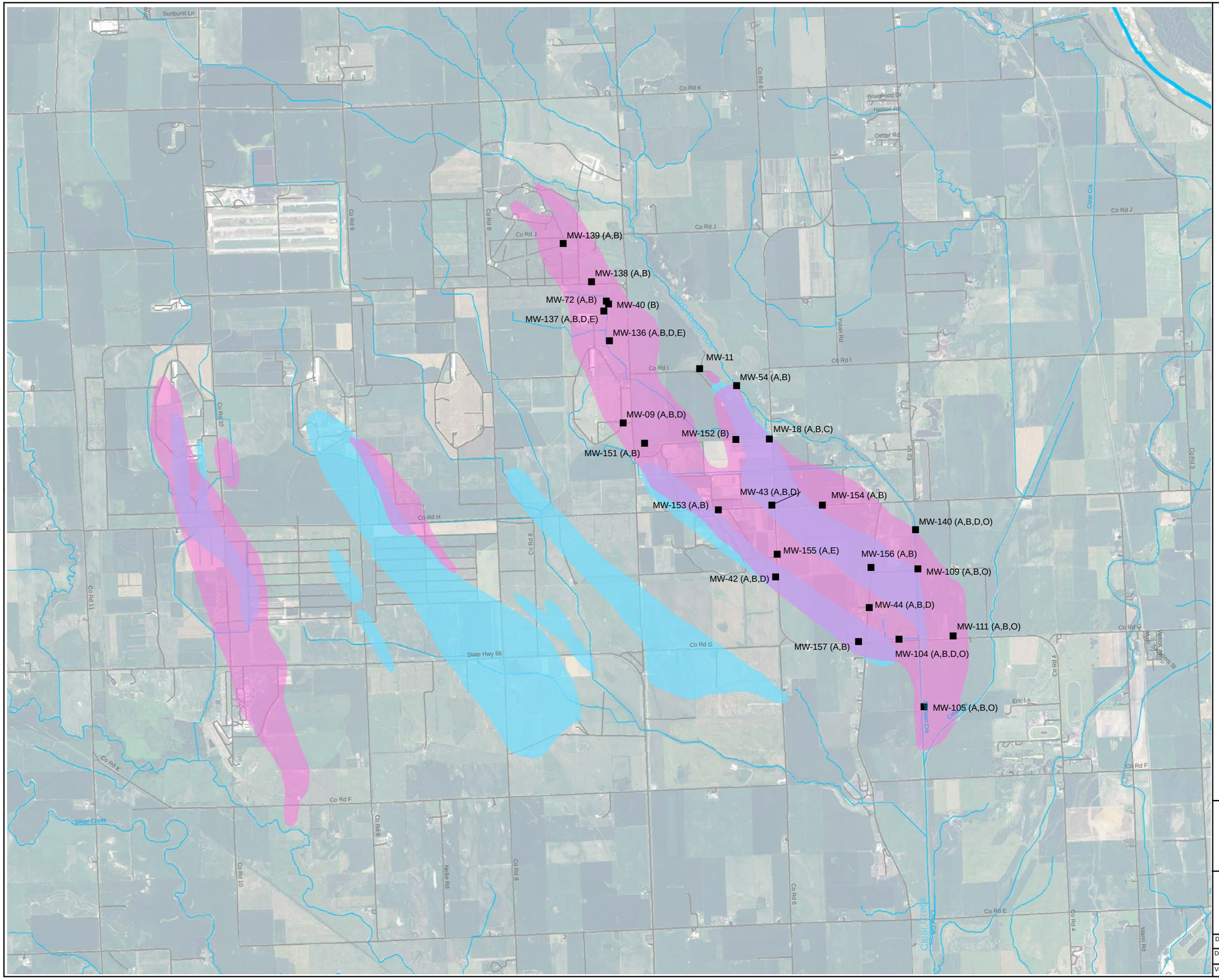

Legend

■ Interior Plume LL4 Monitoring Wells

Contaminant Plumes

Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)

Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)

Approximate Area of Both TCE at a Concentration of 5 ug/L or Greater and RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene

RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine

ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000

Feet

US Army Corps of Engineers ®
Kansas City District

Figure 3-7
Interior LL4 Plume Monitoring Well Locations

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 2/4/2011	Date: 2/7/2011	
Version:	Revision Date / Initials: 2/9/2011 MGJ	

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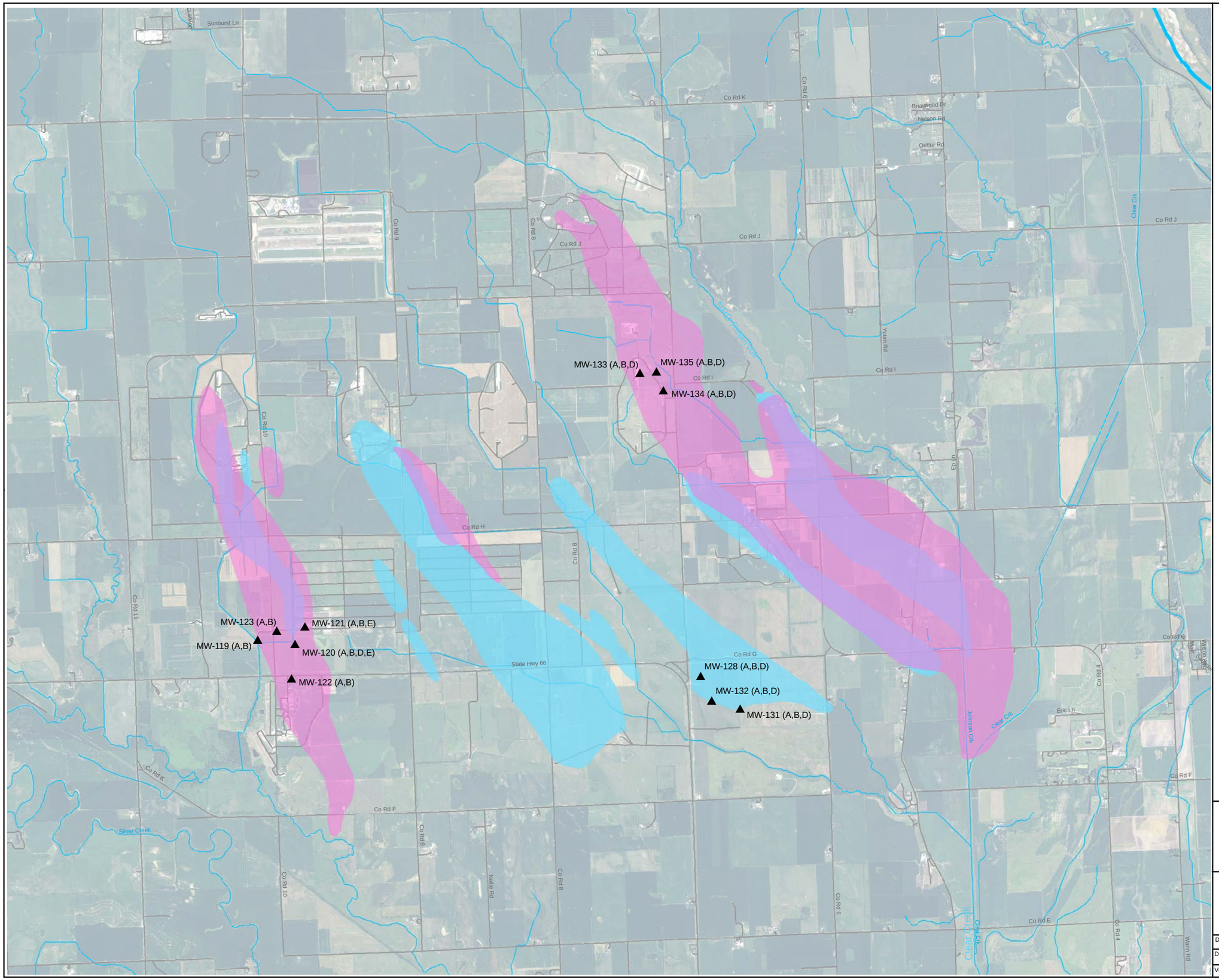

Legend

▲ Focused Extraction Monitoring Well

Contaminant Plumes

- Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)
- Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)
- Approximate Area of Both TCE at a Concentration of 5 ug/L or Greater and RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene

RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine

ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000

Feet

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Kansas City District

Figure 3-8
Monitoring Wells Associated with Focused Extraction Wells

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 2/7/2011	Date: 2/7/2011	
Version:	Revision Date / Initials: 2/8/2011 MGJ	

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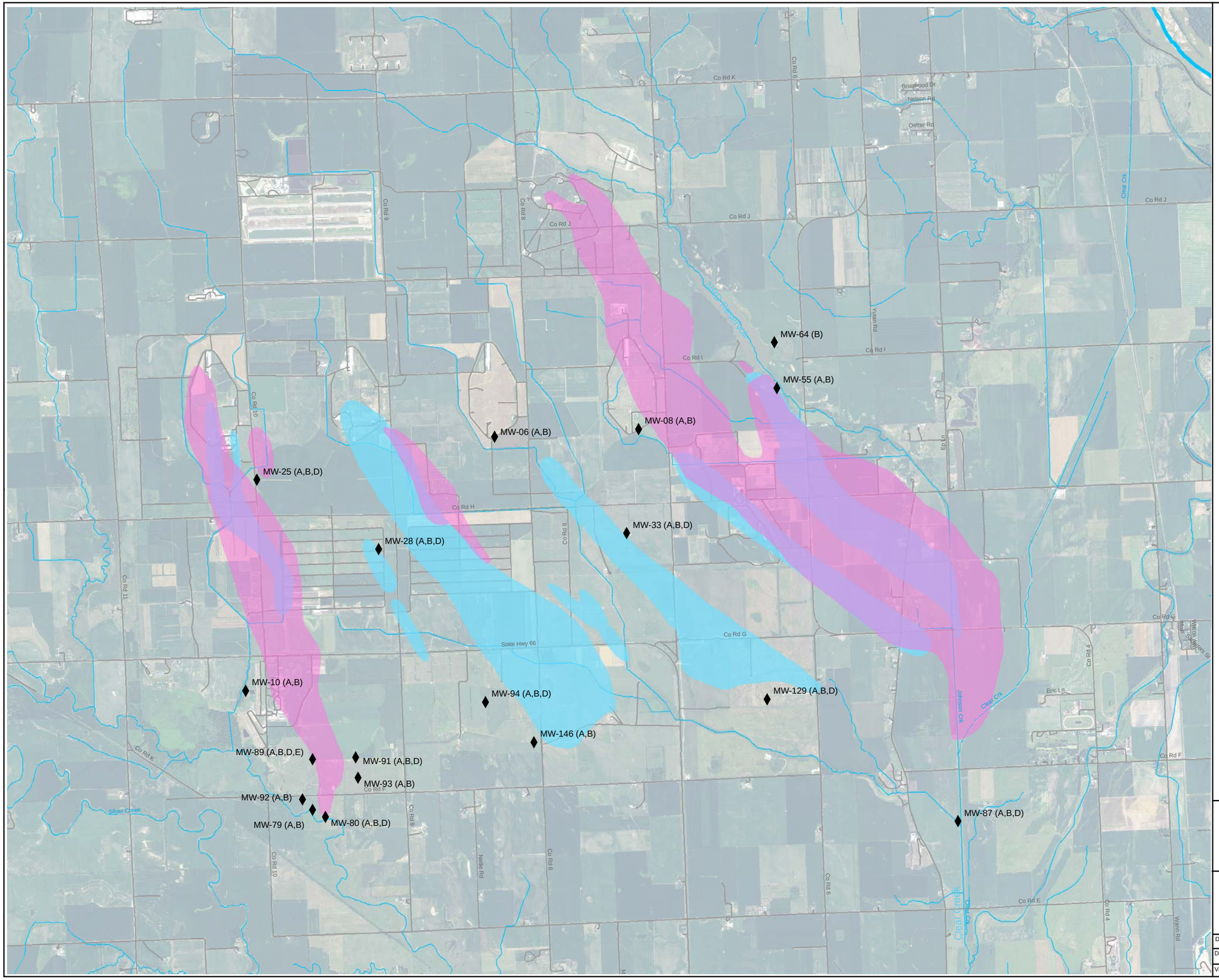

Legend

♦ Upgradient, Sidegradient and Downgradient Monitoring Wells

Contaminant Plumes

- Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)
- Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)
- Approximate Area of Both TCE at a Concentration of 5 ug/L or Greater and RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene

RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine

ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000

Feet

US Army Corps of Engineers ®
Kansas City District

Figure 3-9
2010 Upgradient, Sidegradient, and Downgradient Monitoring Wells

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 2/4/2011	Date: 2/7/2011	
Version:	Revision Date / Initials: 2/9/2011 MGJ	

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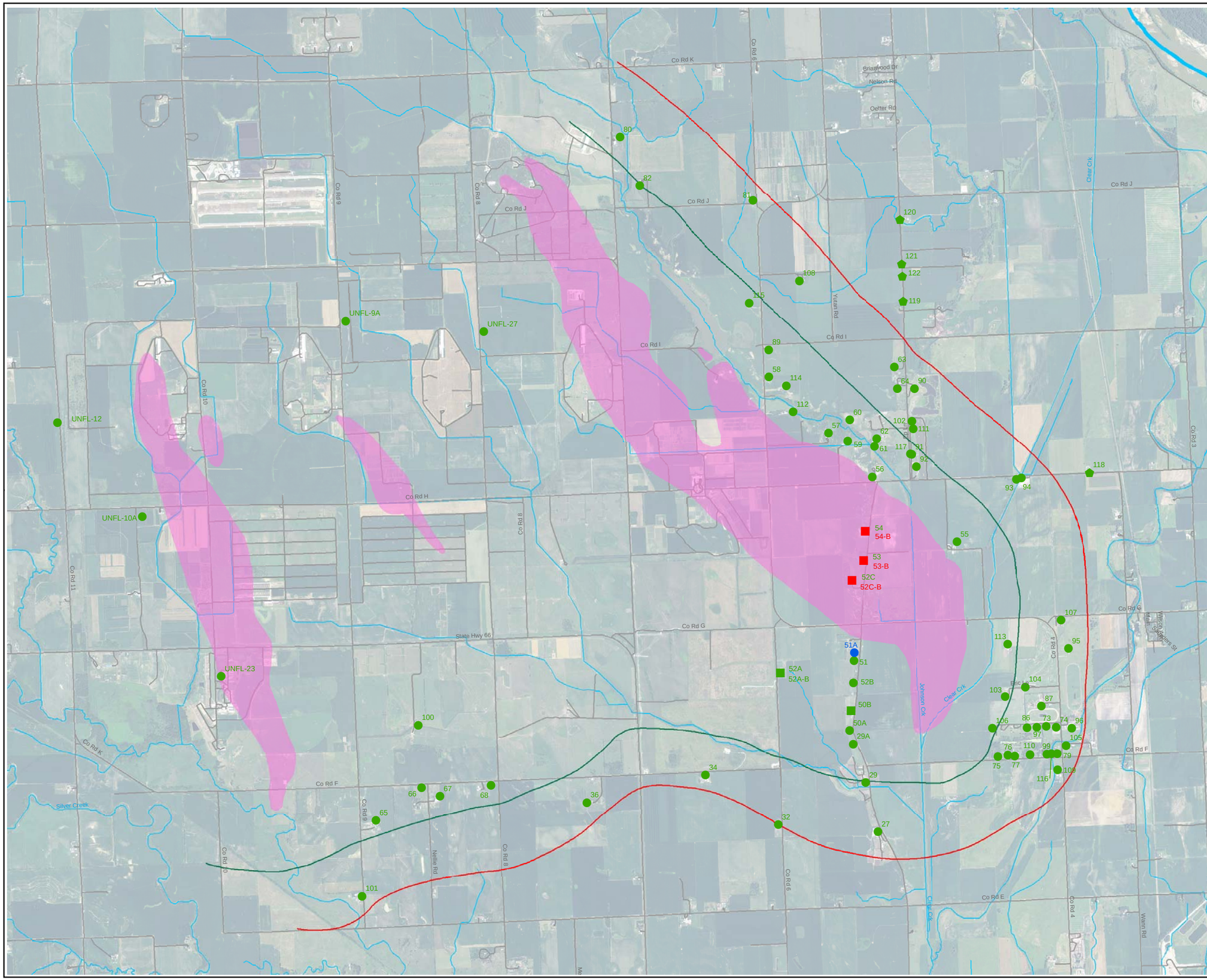

Legend

- Alternate Water Supply Well
- Water Supply Well
- Non-program Water Supply Well

Red - TCE Detected Above 5 ug/L

Blue - TCE Detected Below 5 ug/L

Green - TCE Not Detected

- Half-Mile Buffer Zone
- One-Mile Buffer Zone
- Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)

NOTE:
TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene
ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000
Feet

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Kansas City District

Figure 4-1
TCE Results for Water Supply Wells
2010 Sampling Events

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 1/31/2011	Date: 2/3/2011	
Version:	Revision Date / Initials: 2/8/2011 MGJ	

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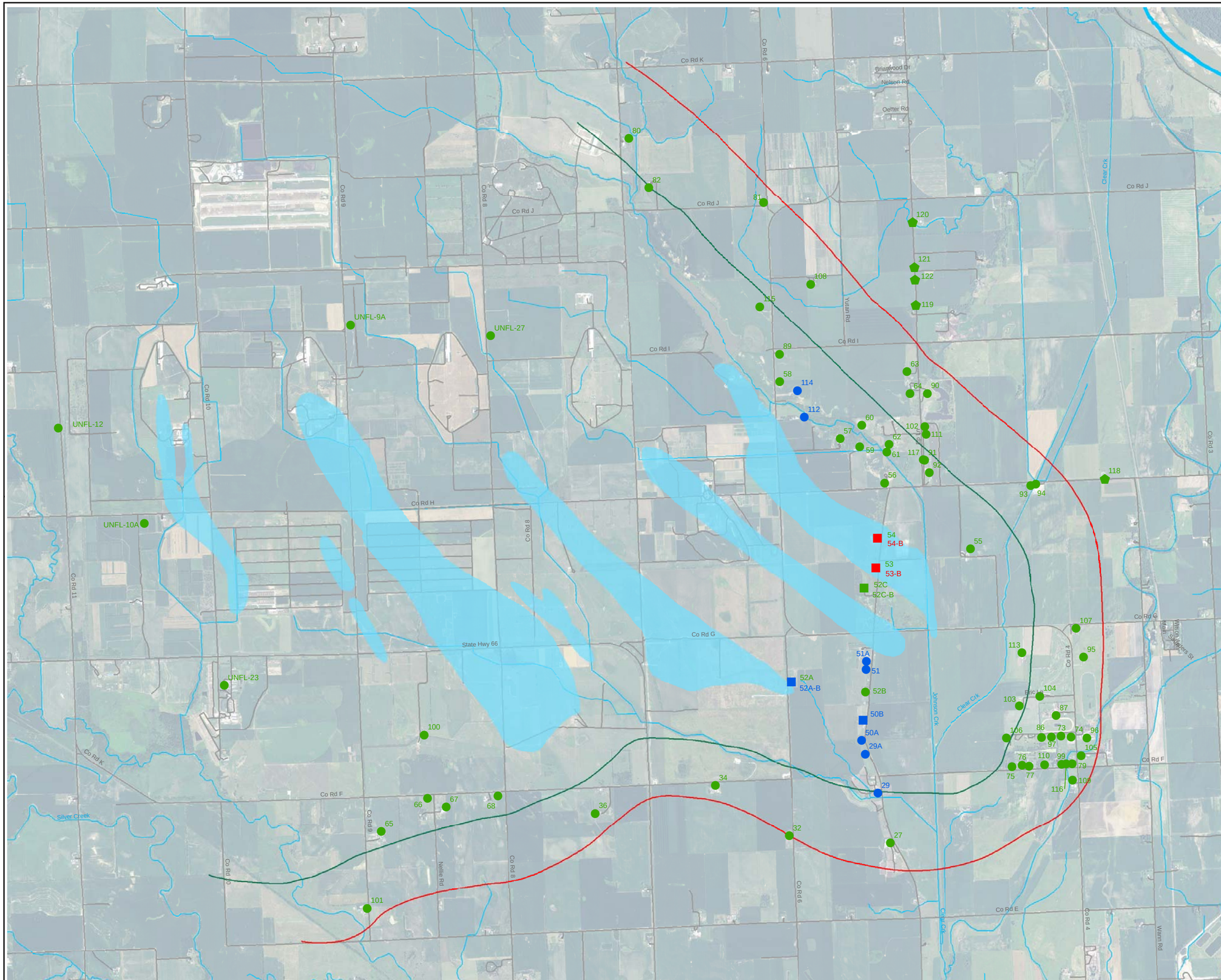

Legend

- Alternate Water Supply Well
- Water Supply Well
- Non-program Water Supply Well

Red - RDX Detected Above 2 ug/L

Blue - RDX Detected Below 2 ug/L

Green - RDX Not Detected

- Half-Mile Buffer Zone
- One-Mile Buffer Zone
- Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:
TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

RDX - Hexahydro-1,3,5-trinitro-1,3,5-triazine
ug/L - micrograms per liter

N

0 1,250 2,500 5,000 7,500 10,000

Feet

US Army Corps of Engineers
Kansas City District

Figure 4-2
RDX Results for Water Supply Wells
2010 Sampling Events

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 1/31/2011	Date: 2/3/2011	
Version:	Revision Date / Initials: 2/8/2011 MGJ	

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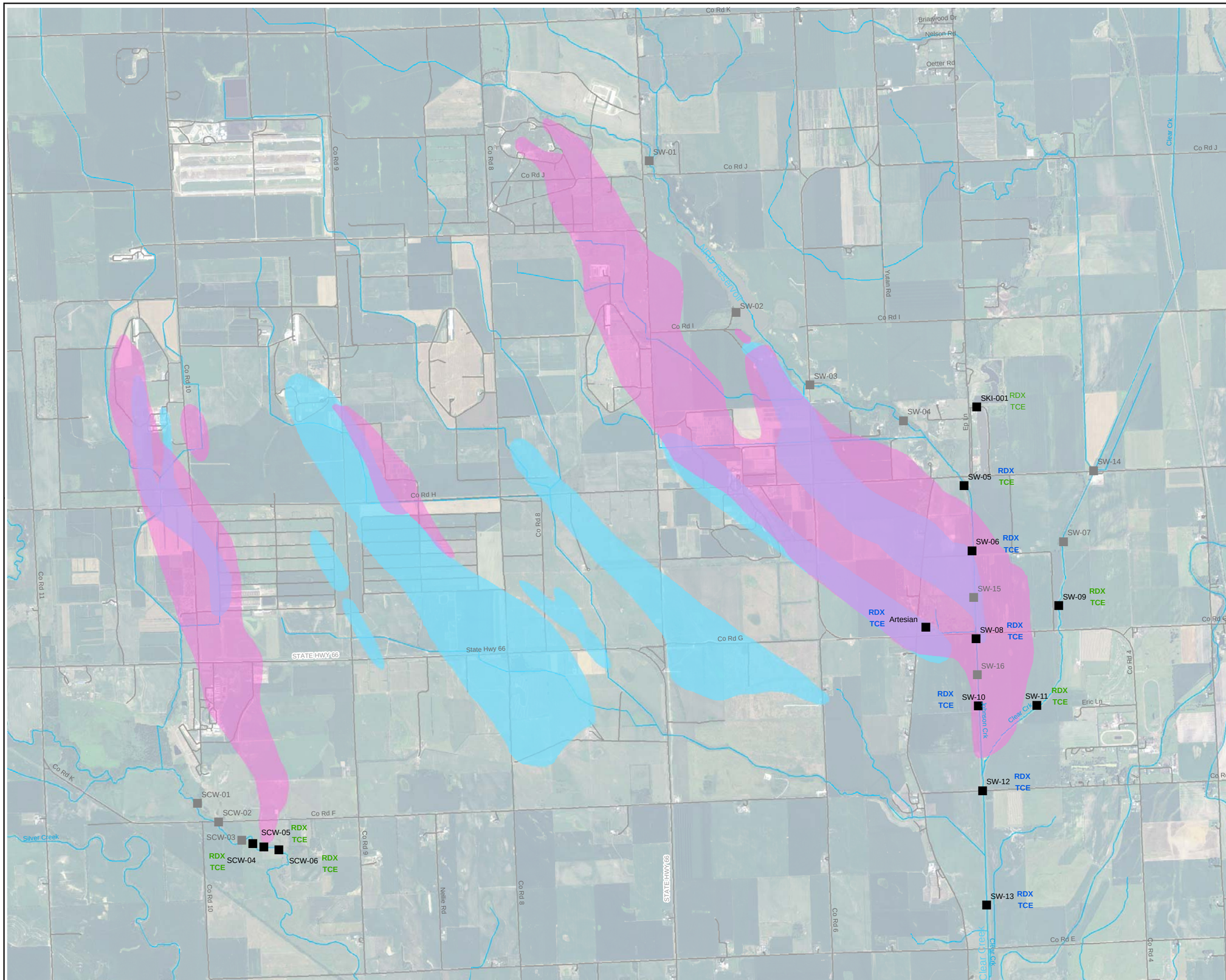

LEGEND

Surface Water Sample Location (sampled in 2010)

Surface Water Sample Location (not sampled in 2010)

Red - RDX Detected Above 100 ug/L or TCE Detected Above 810 ug/L

Blue - RDX Detected Below 100 ug/L or TCE Detected Below 810 ug/L

Green - RDX Not Detected or TCE Not Detected

Approximate Area of TCE at a Concentration of 5 ug/L or Greater (2008)

Approximate Area of RDX at a Concentration of 2 ug/L or Greater (2008)

Approximate Area of Both TCE at a Concentration of 5 ug/L or Greater and RDX at a Concentration of 2 ug/L or Greater (2008)

NOTE:

TCE and RDX plume delineations are based on Groundwater Monitoring Program data, direct-push data, and other data. The plume delineations represent a combination of the shallow zone data and the intermediate zone data.

TCE - trichloroethene

RDX - hexahydro-1,3,5-trinitro-1,3,5-triazine

ug/L - micrograms per liter

N

0 1,125 2,250 4,500 6,750 9,000

Feet

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Kansas City District

Figure 5-1
TCE and RDX Results for Surface Water Samples 2010 Sampling Events

Drawn by: M Johanson	Reviewed by: J Ryder	Notes and Sources Projection: North American Datum 1983 Nebraska State Plane Units: Feet
Date: 1/31/2011	Date: 2/3/2011	
Version:	Revision Date / Initials: 2/8/2011 MGJ	

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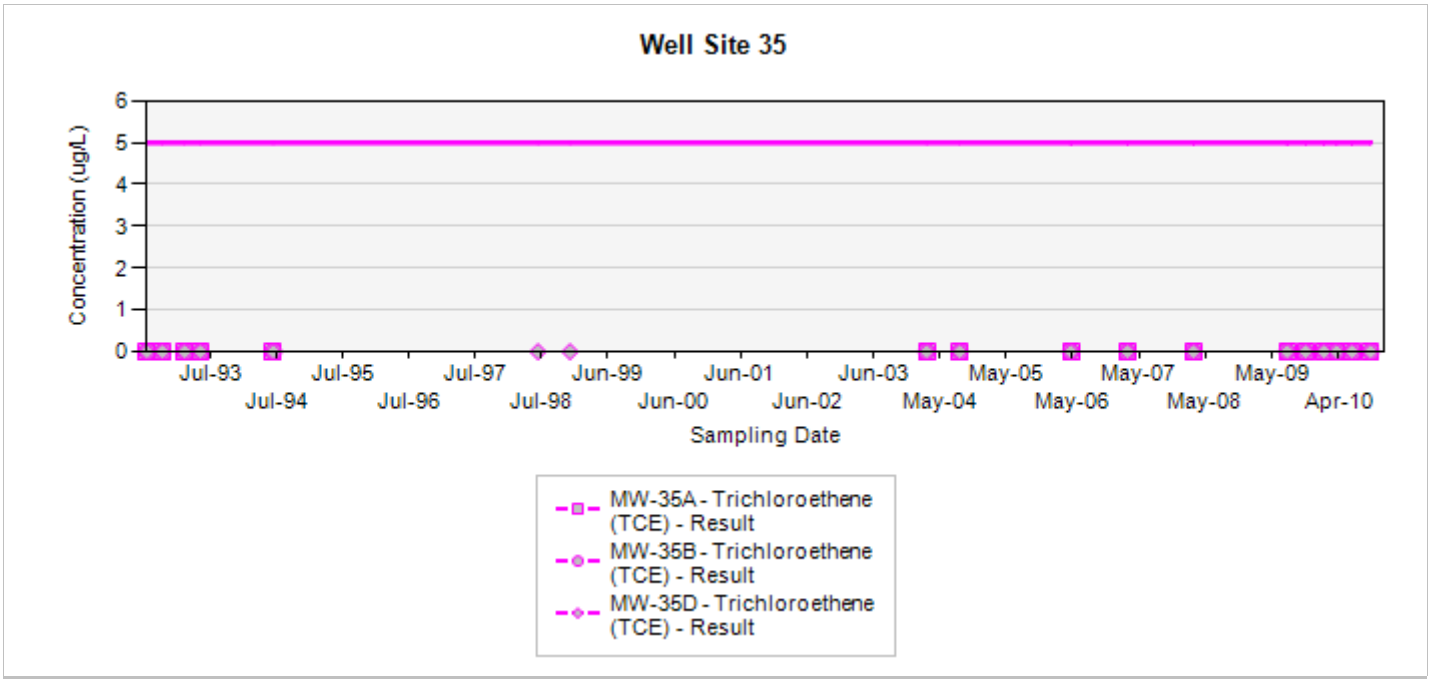
Appendix A

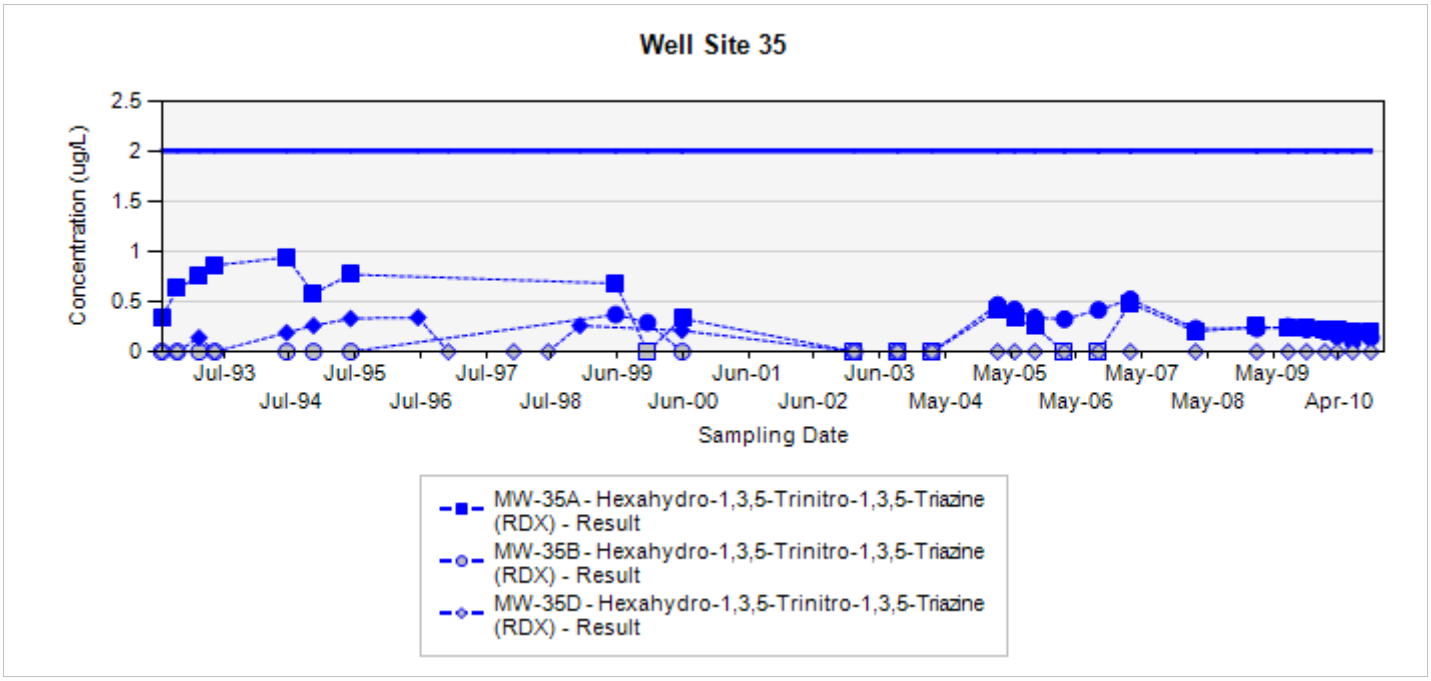
Graphical Figures (trend charts) Presenting the Historical Detections of TCE and RDX for Each Well Location

APPENDIX A.1

PERIMETER MONITORING WELL CONCENTRATION TREND CHARTS

Concentration Trend Charts for Perimeter Monitoring Wells



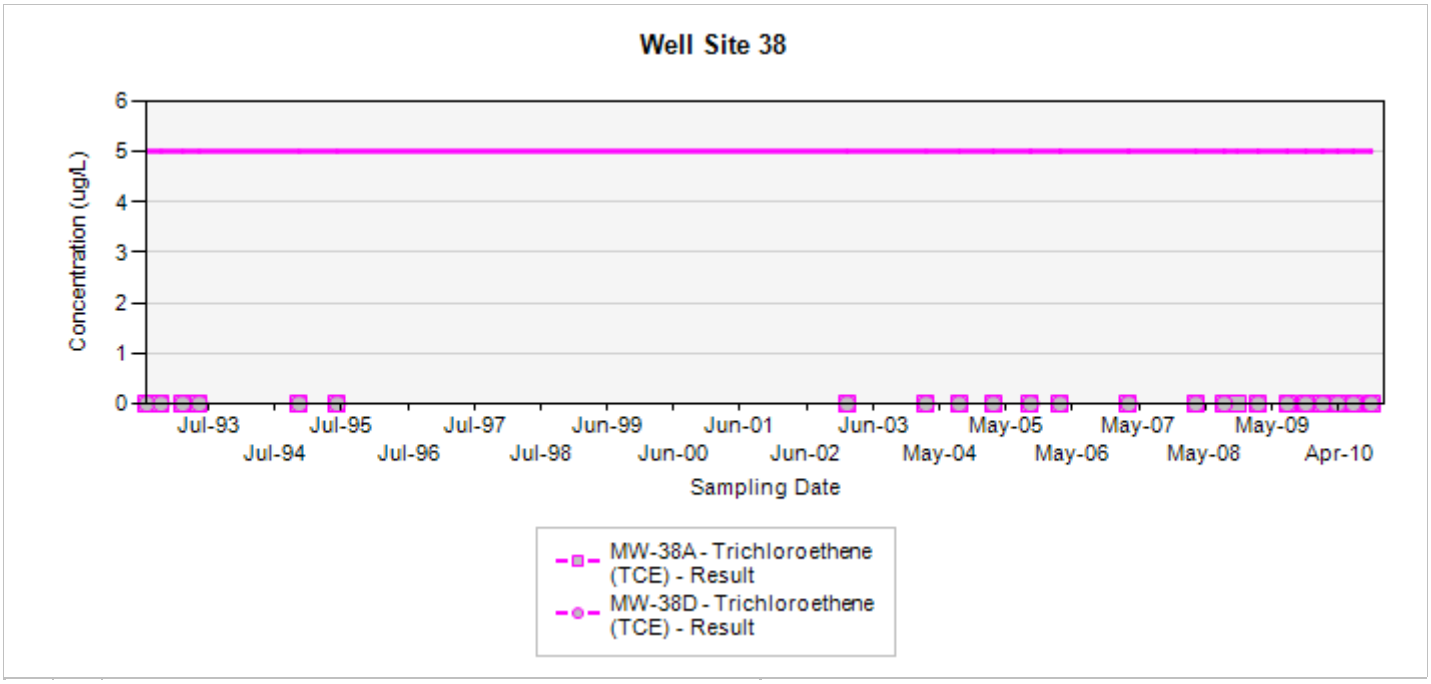


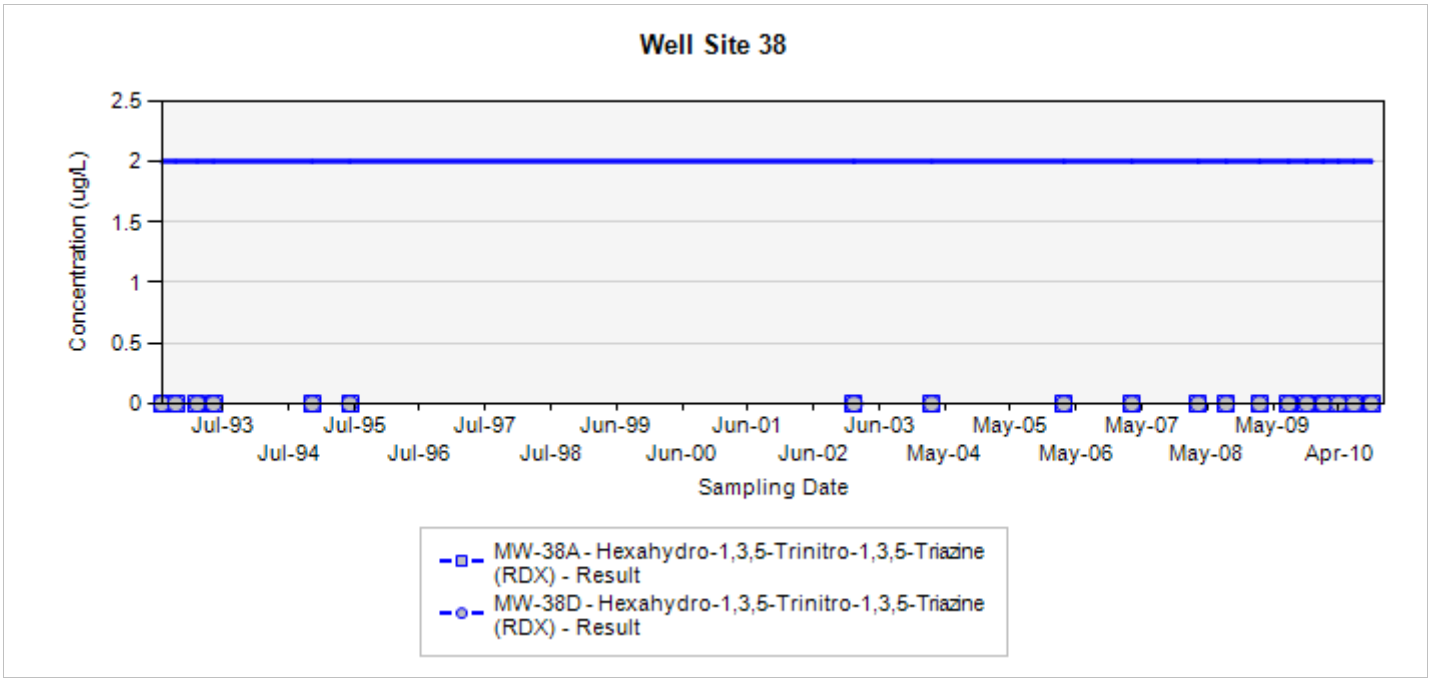
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Perimeter Monitoring Wells



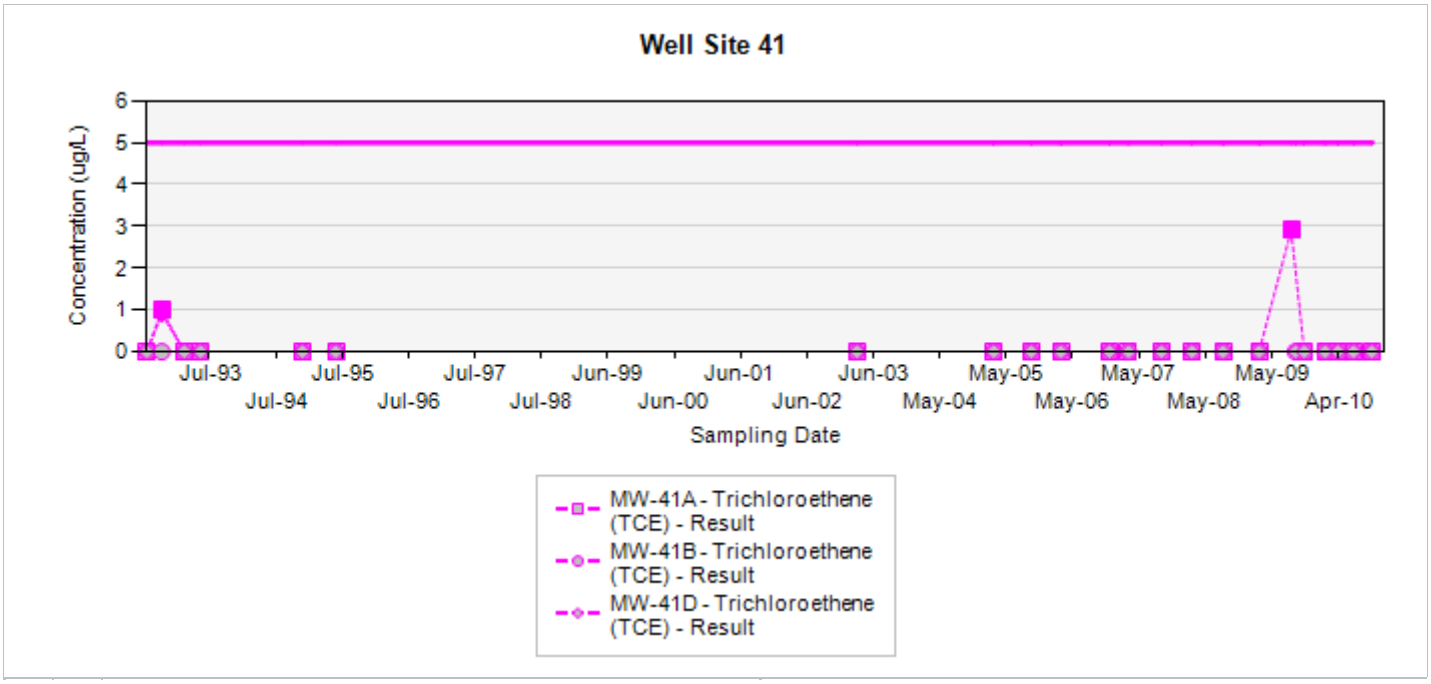


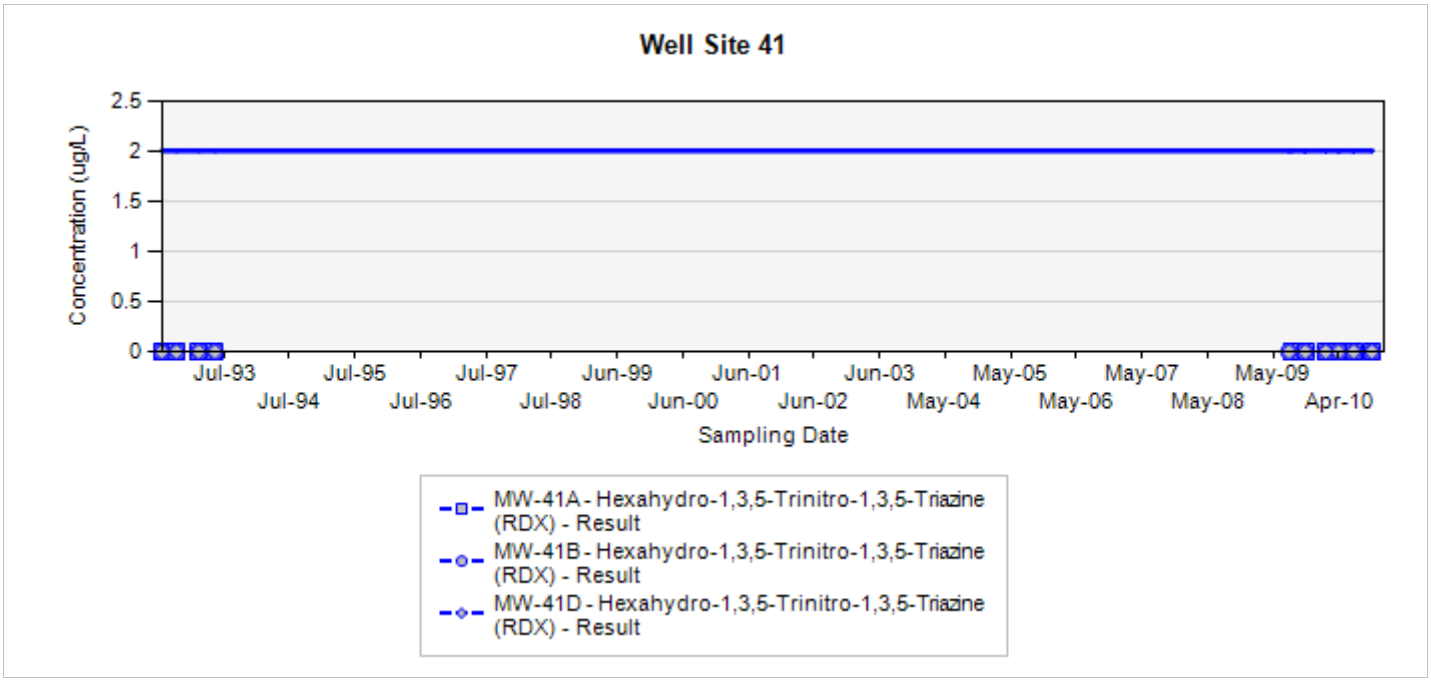
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Perimeter Monitoring Wells



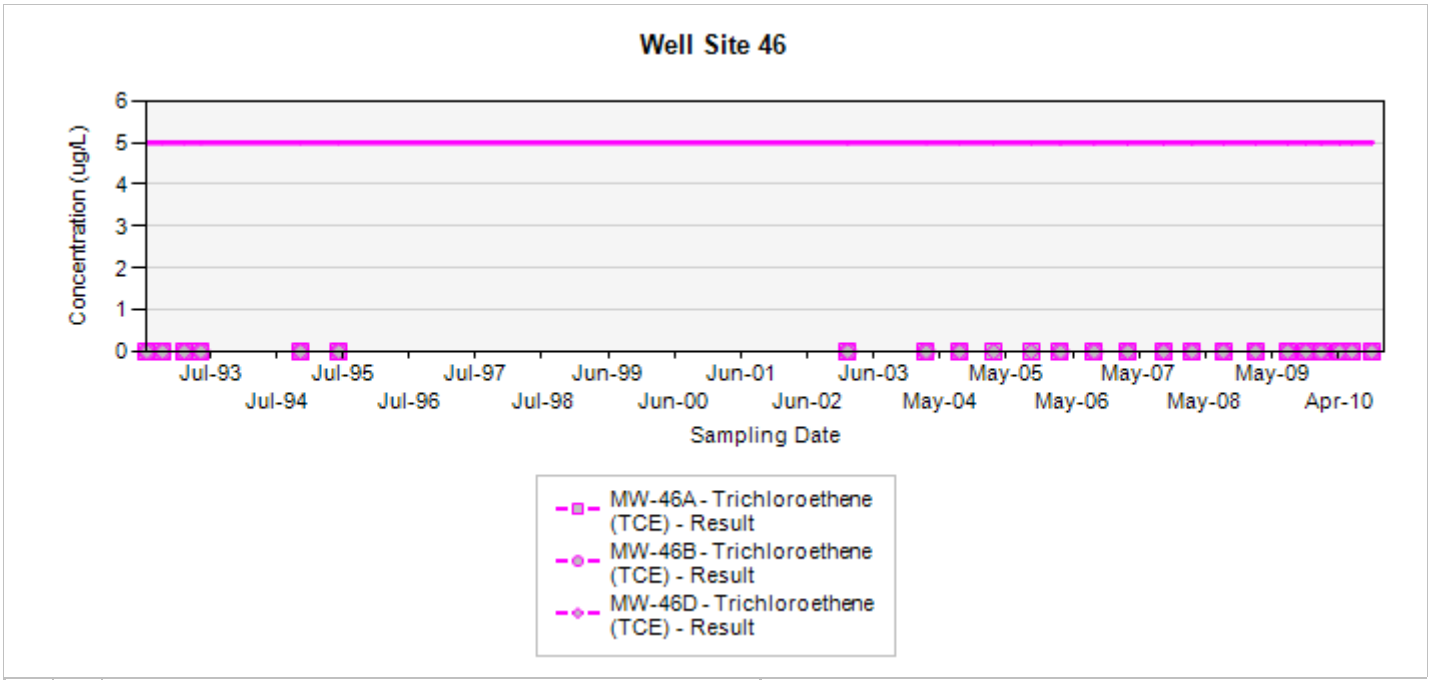


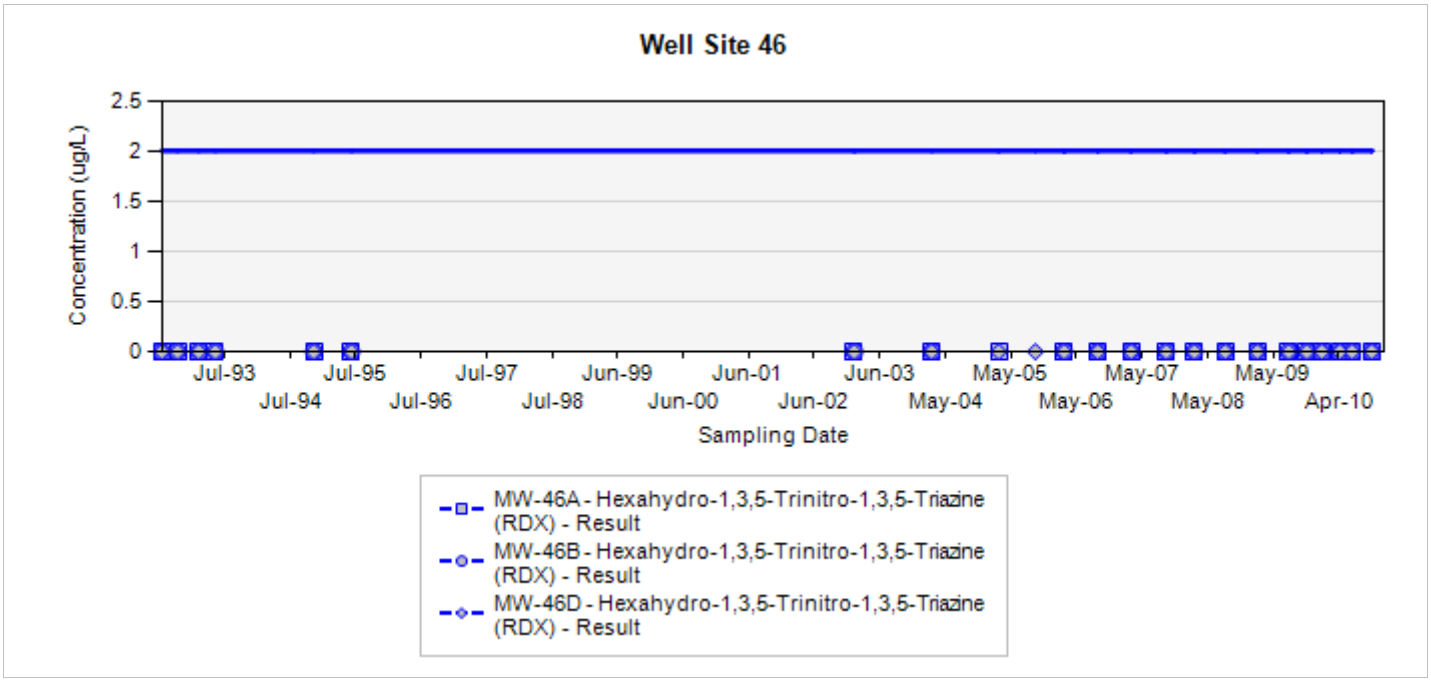
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Perimeter Monitoring Wells



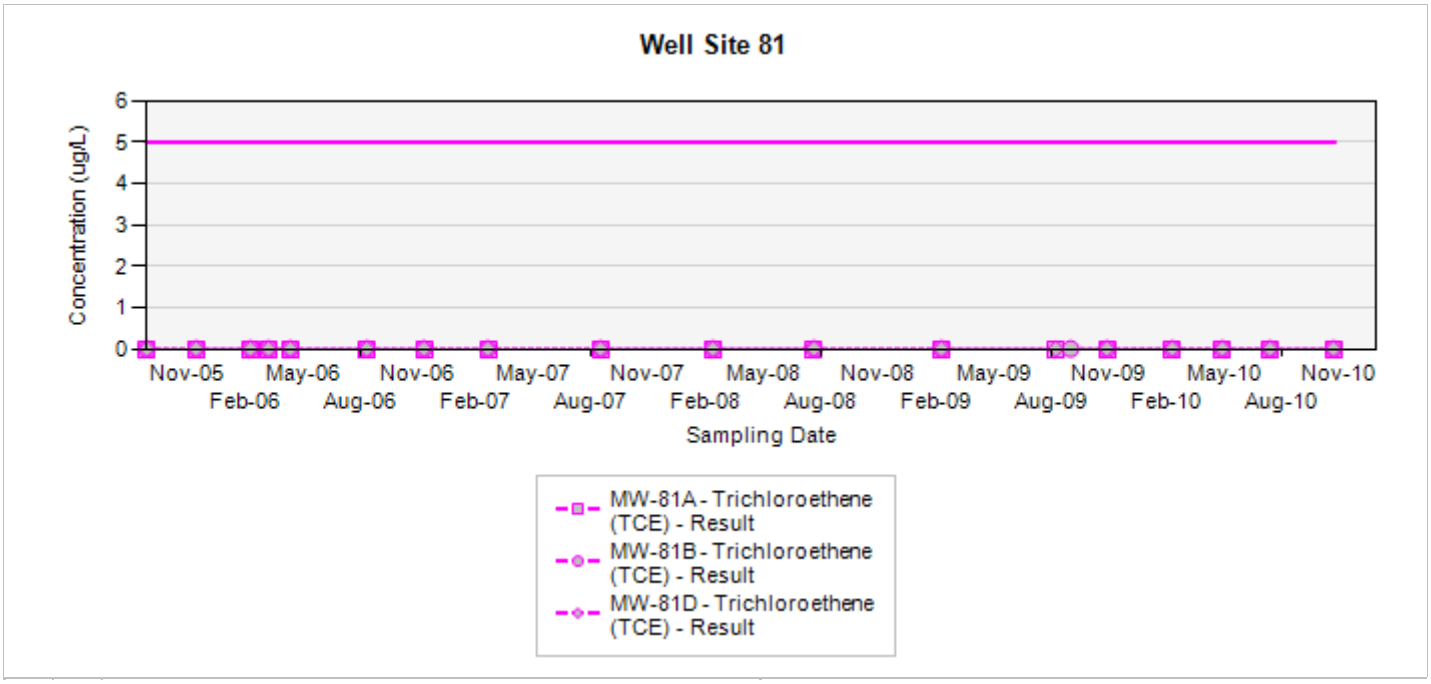


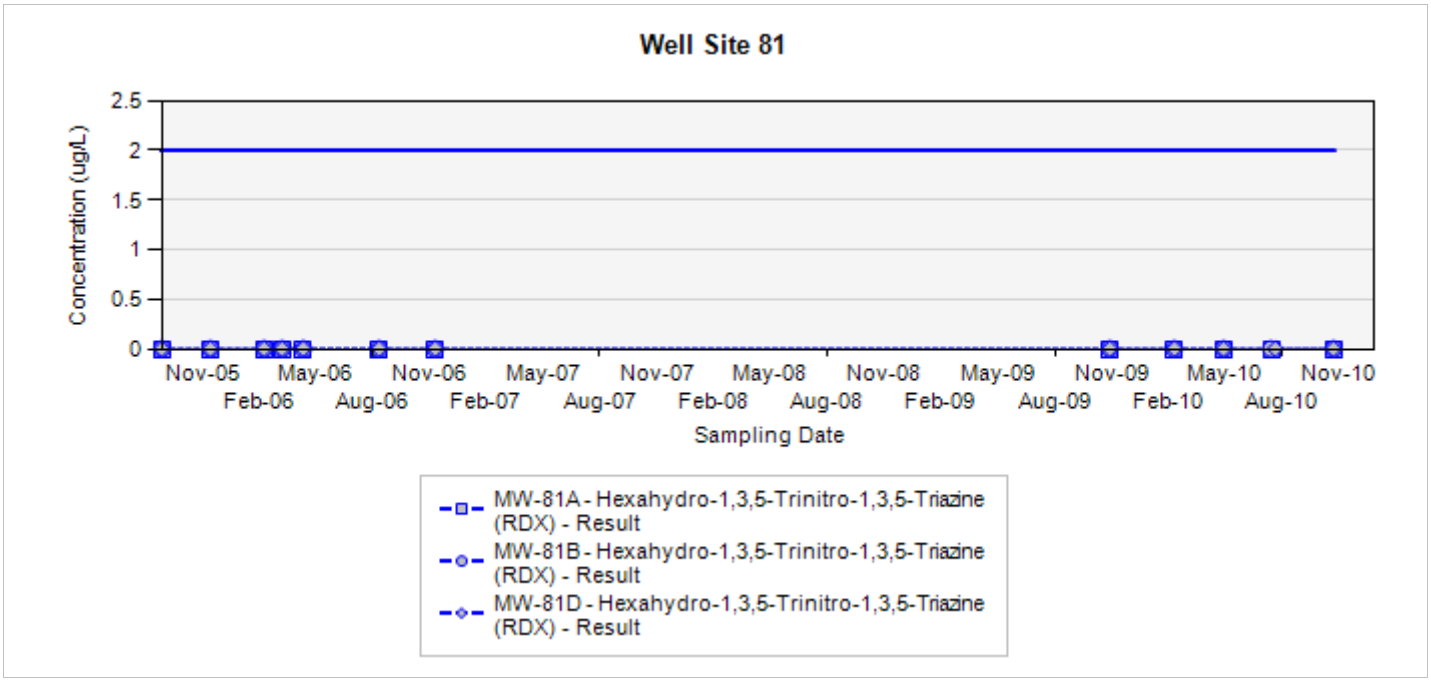
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Perimeter Monitoring Wells



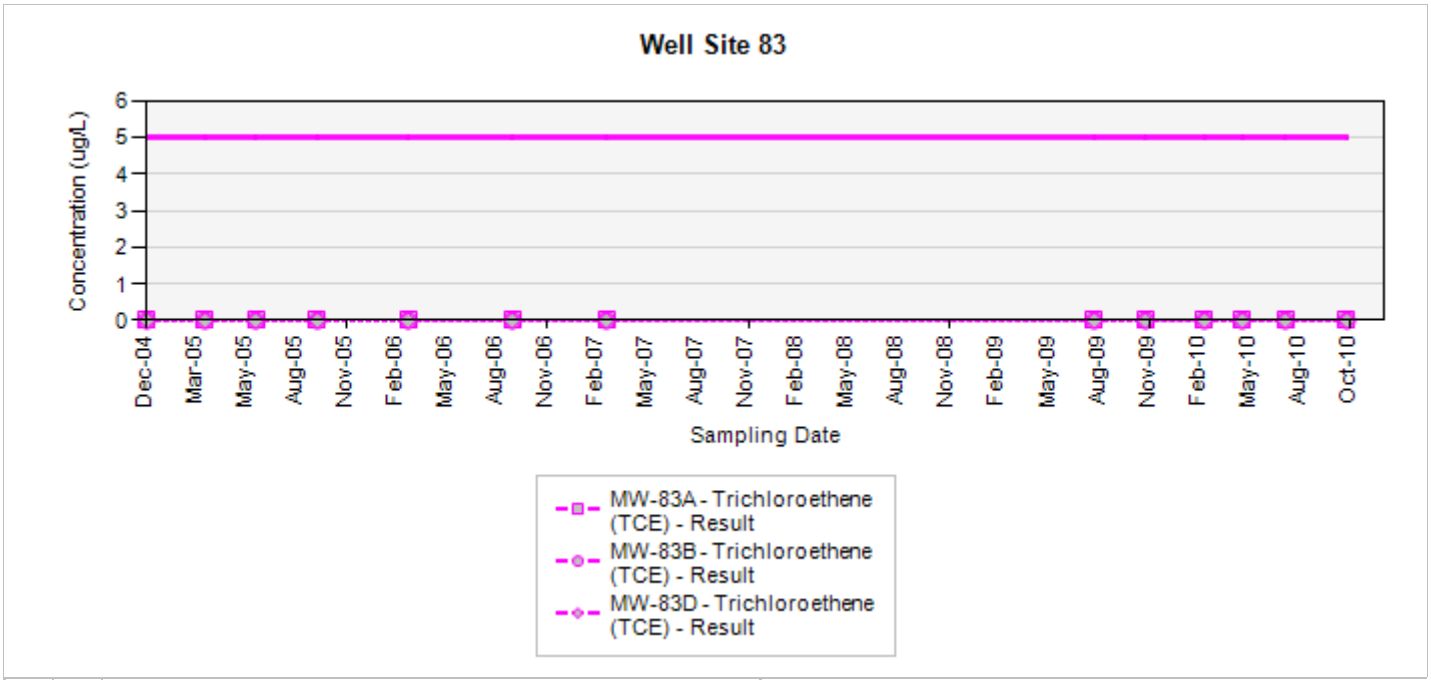


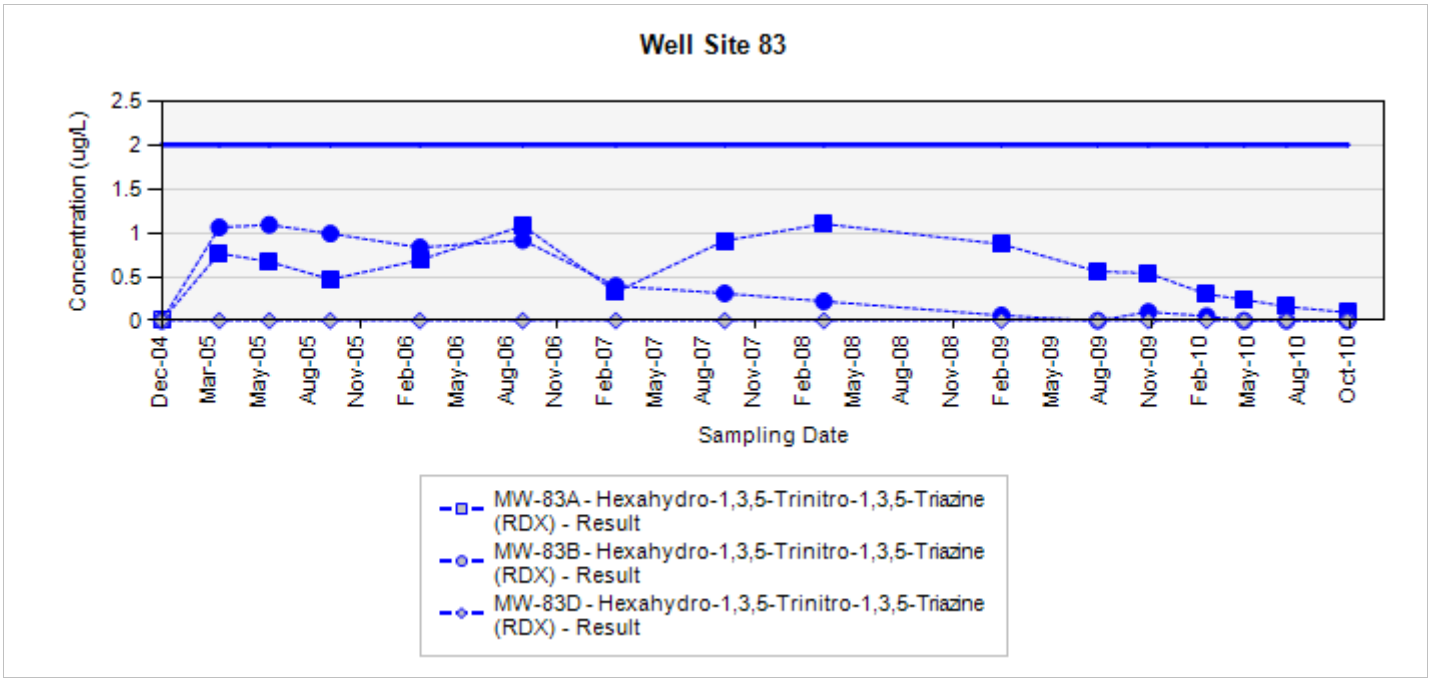
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Perimeter Monitoring Wells





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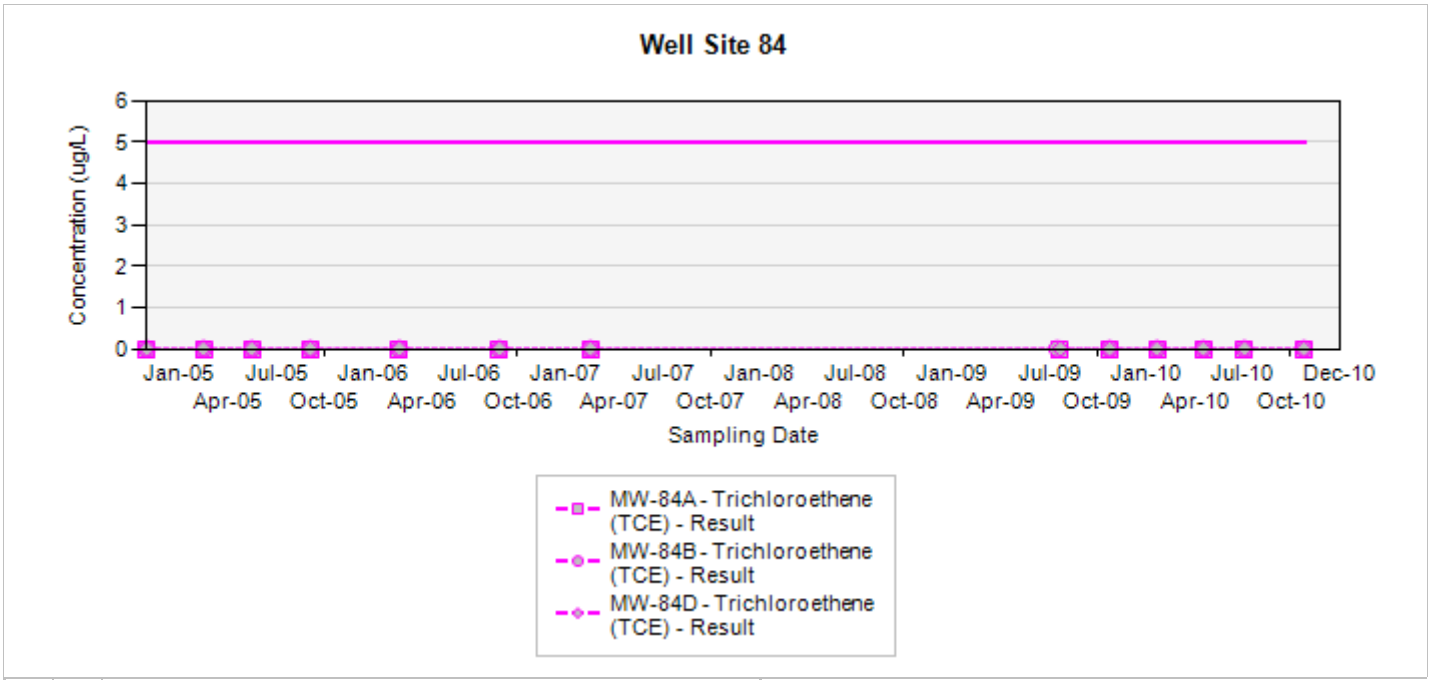
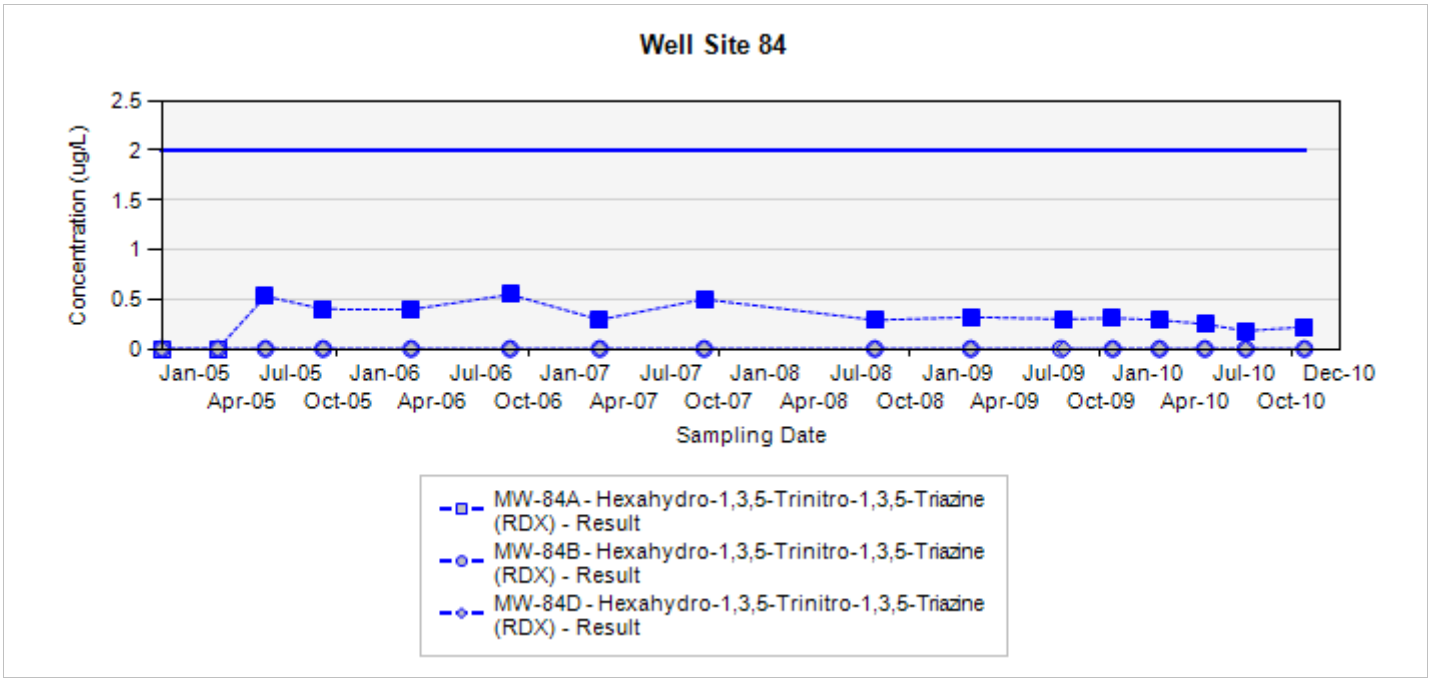
Concentration Trend Charts for Perimeter Monitoring Wells





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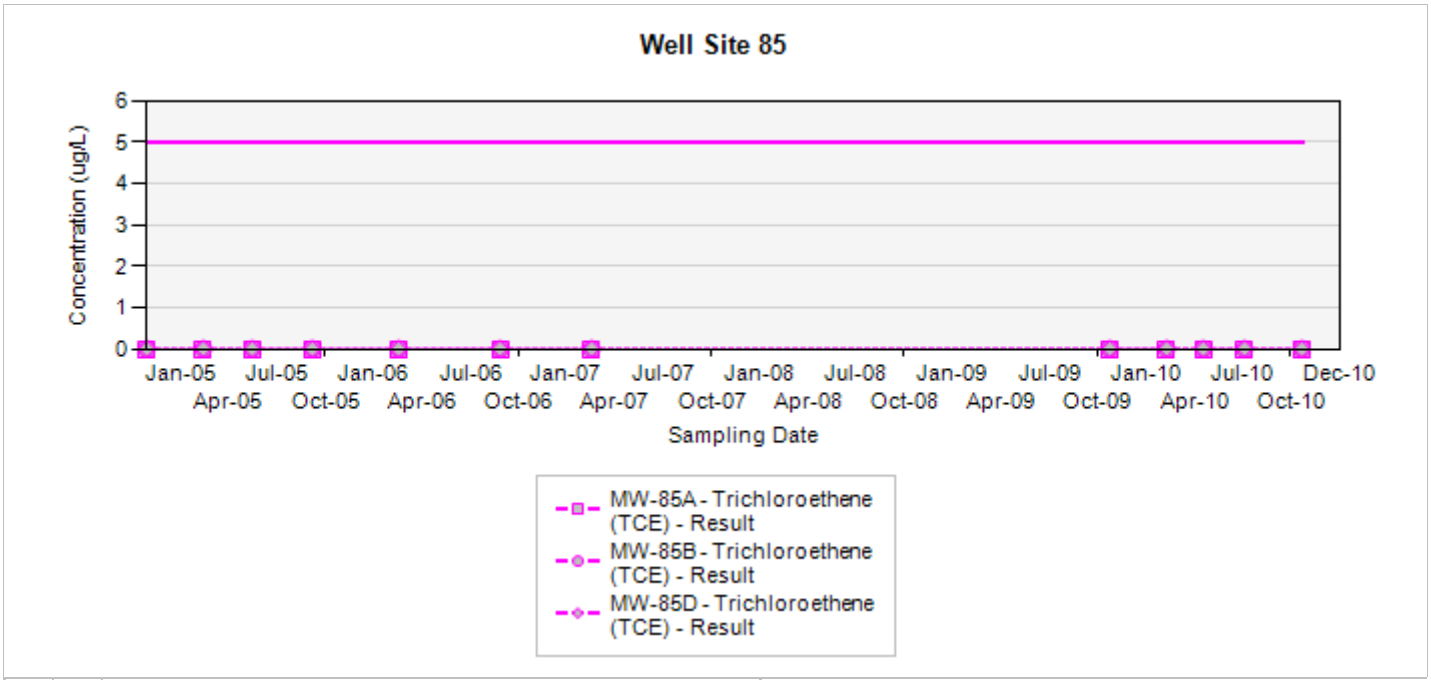

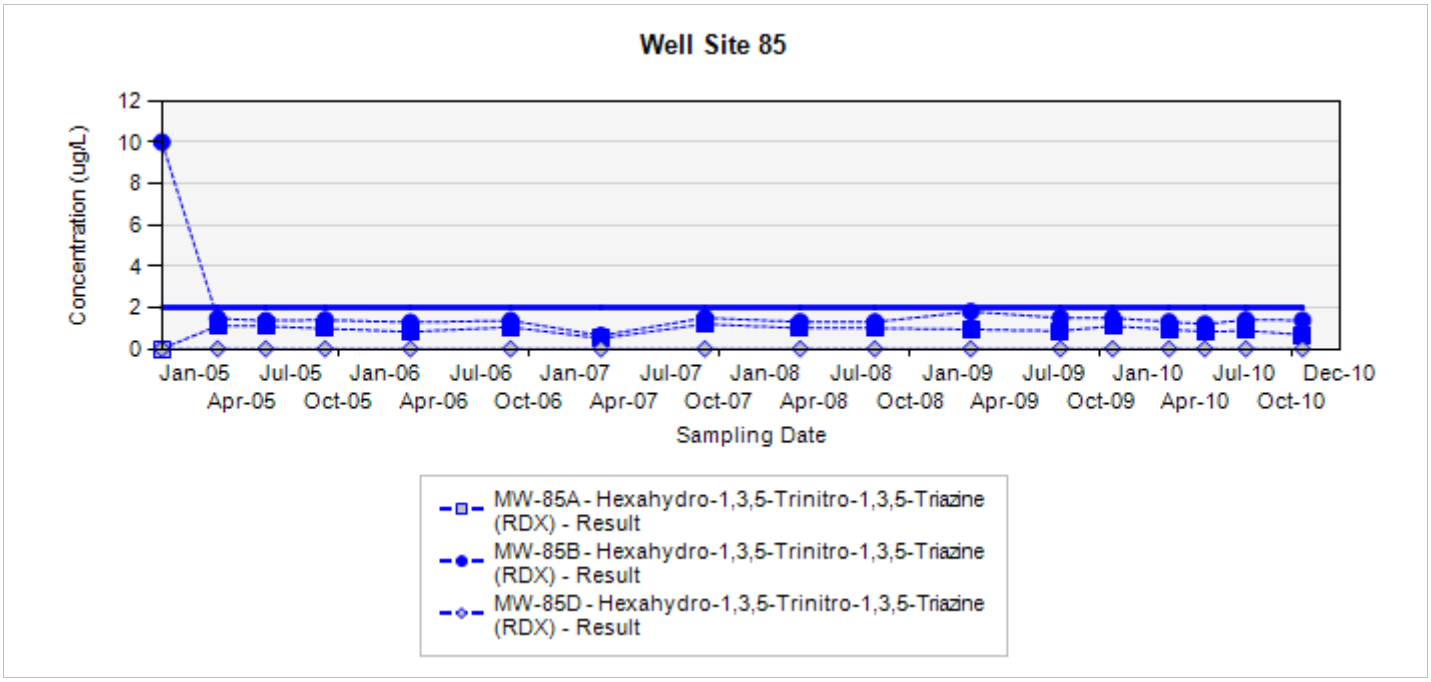

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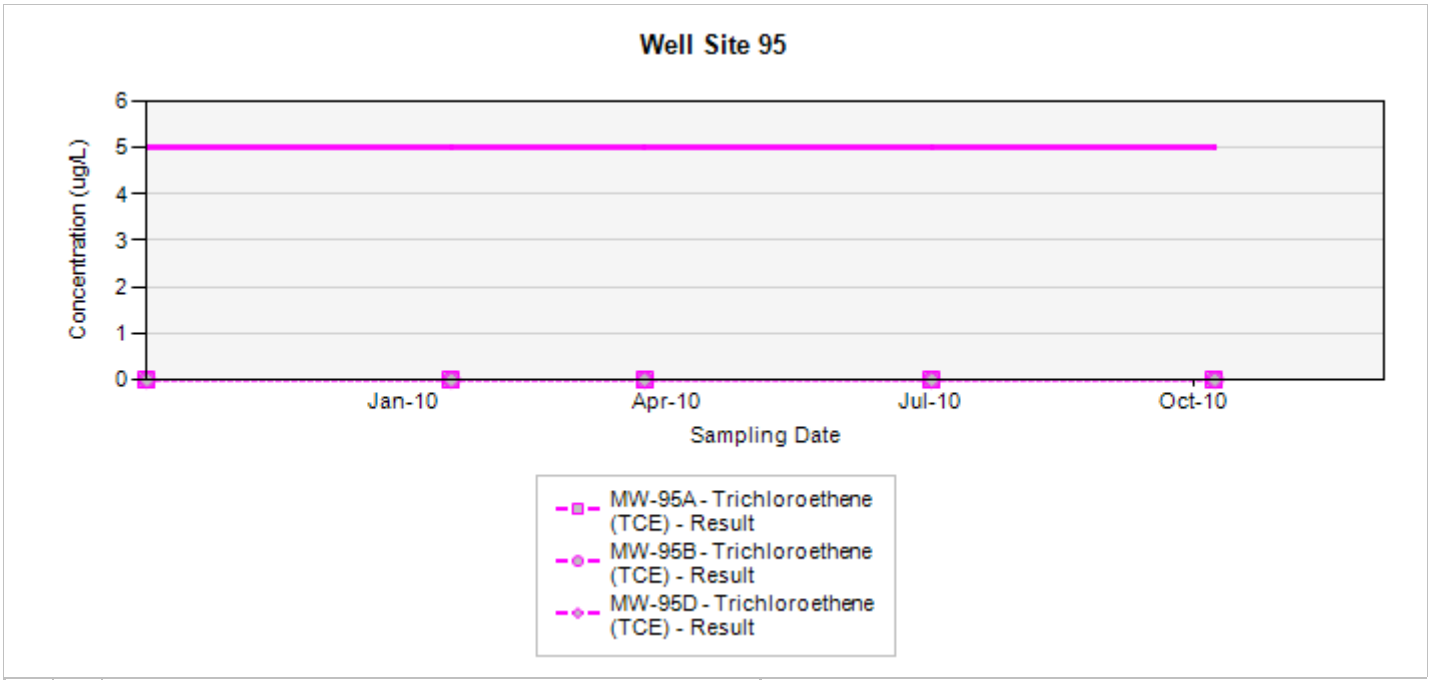

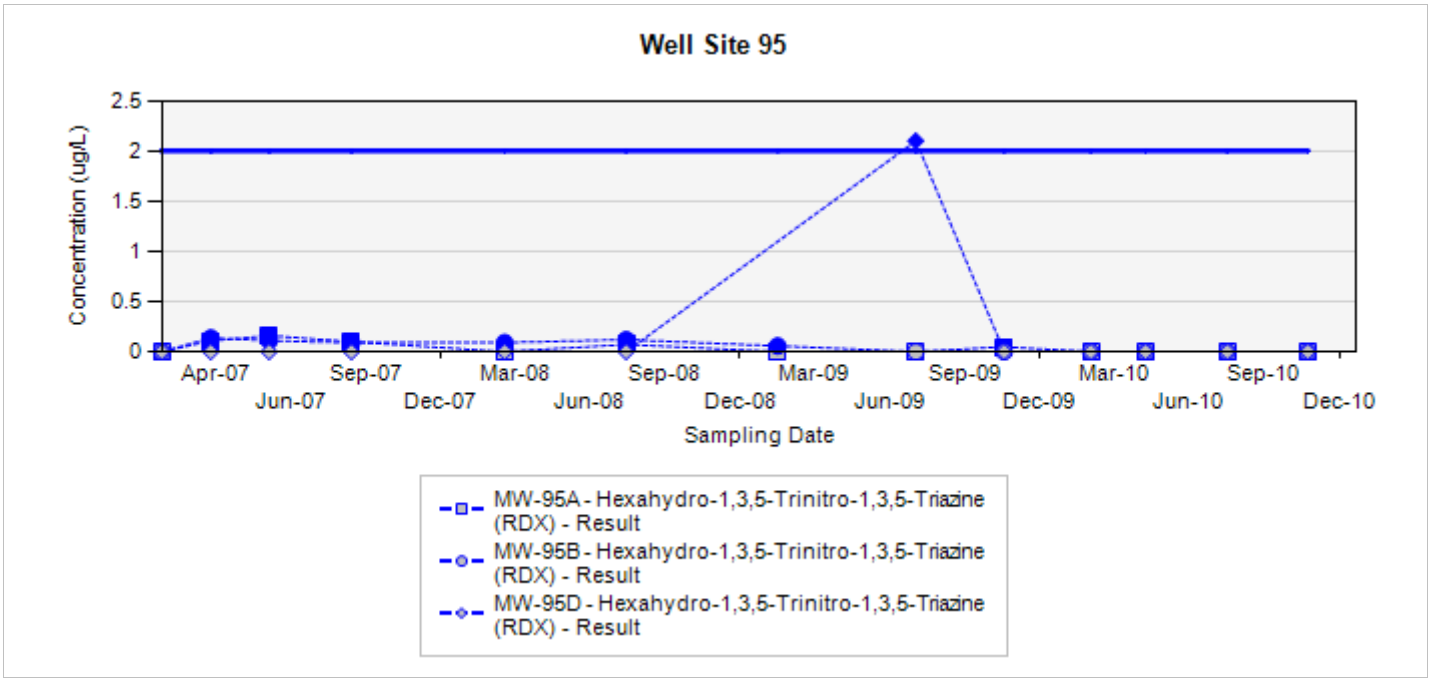

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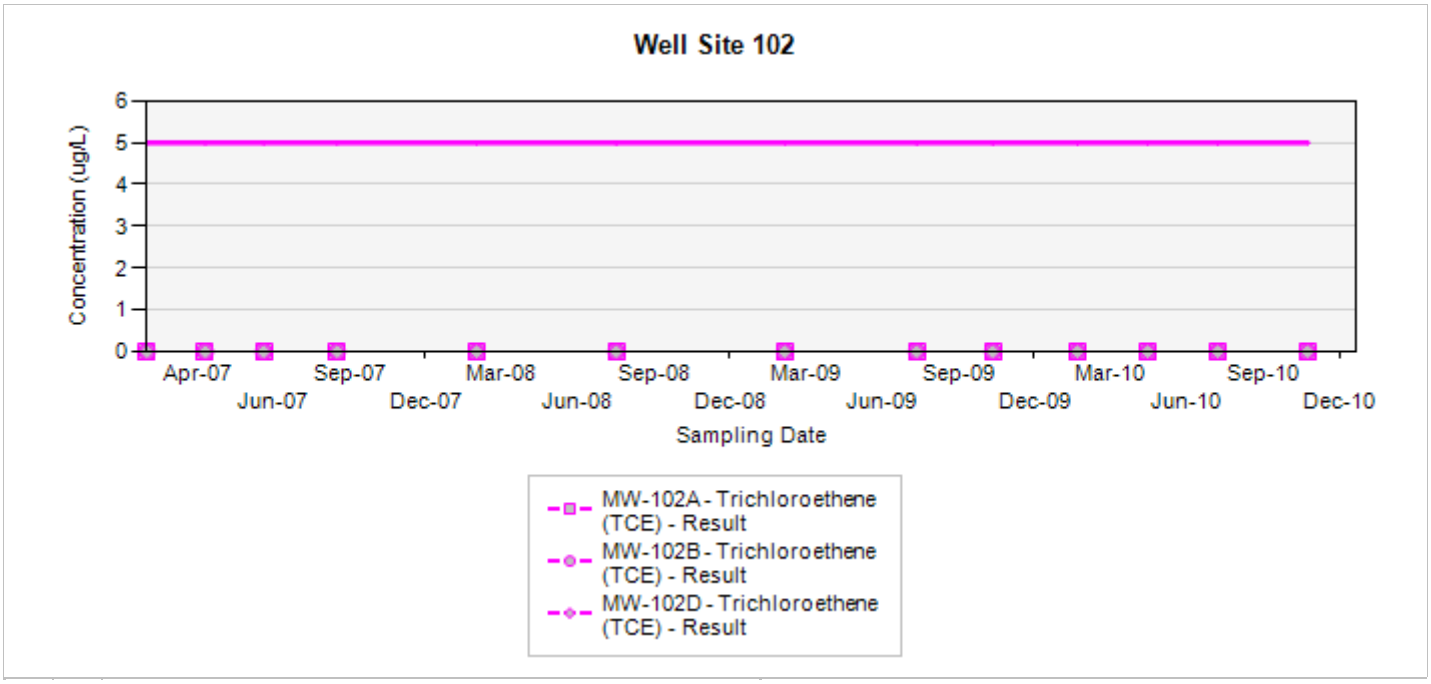

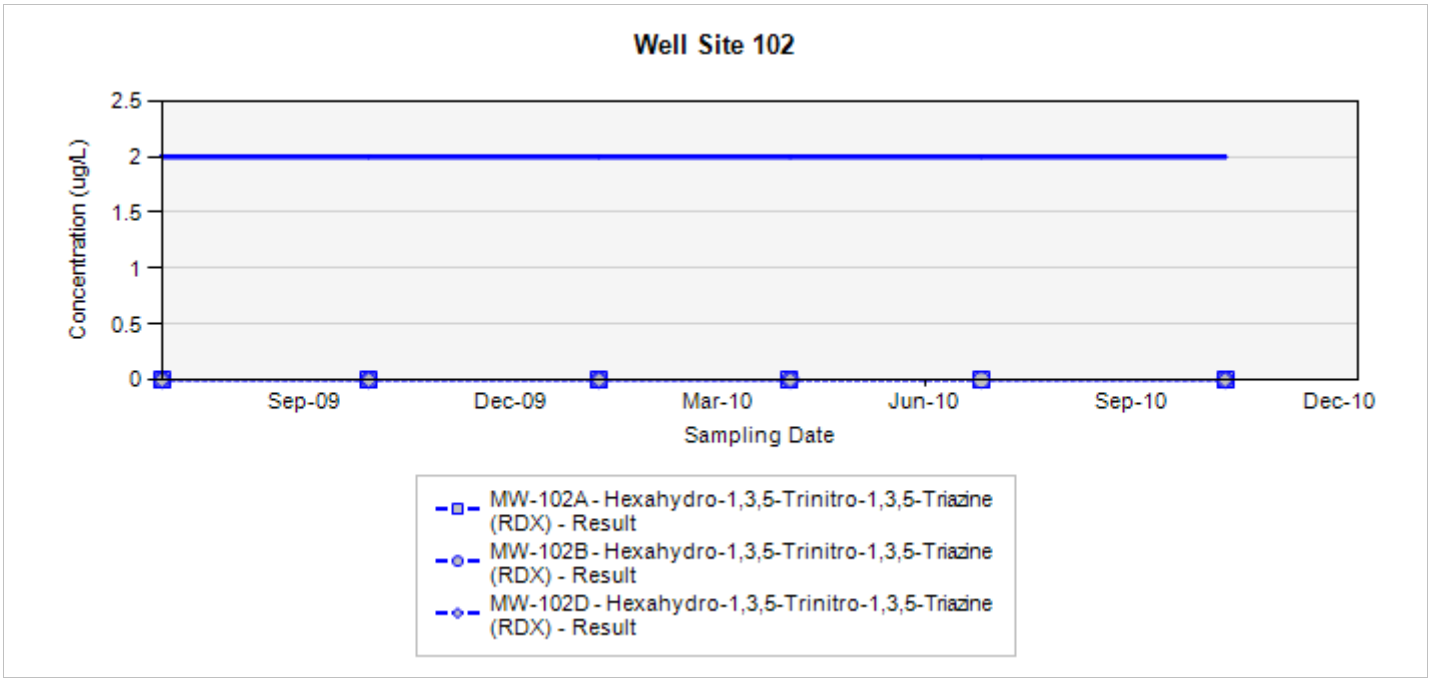

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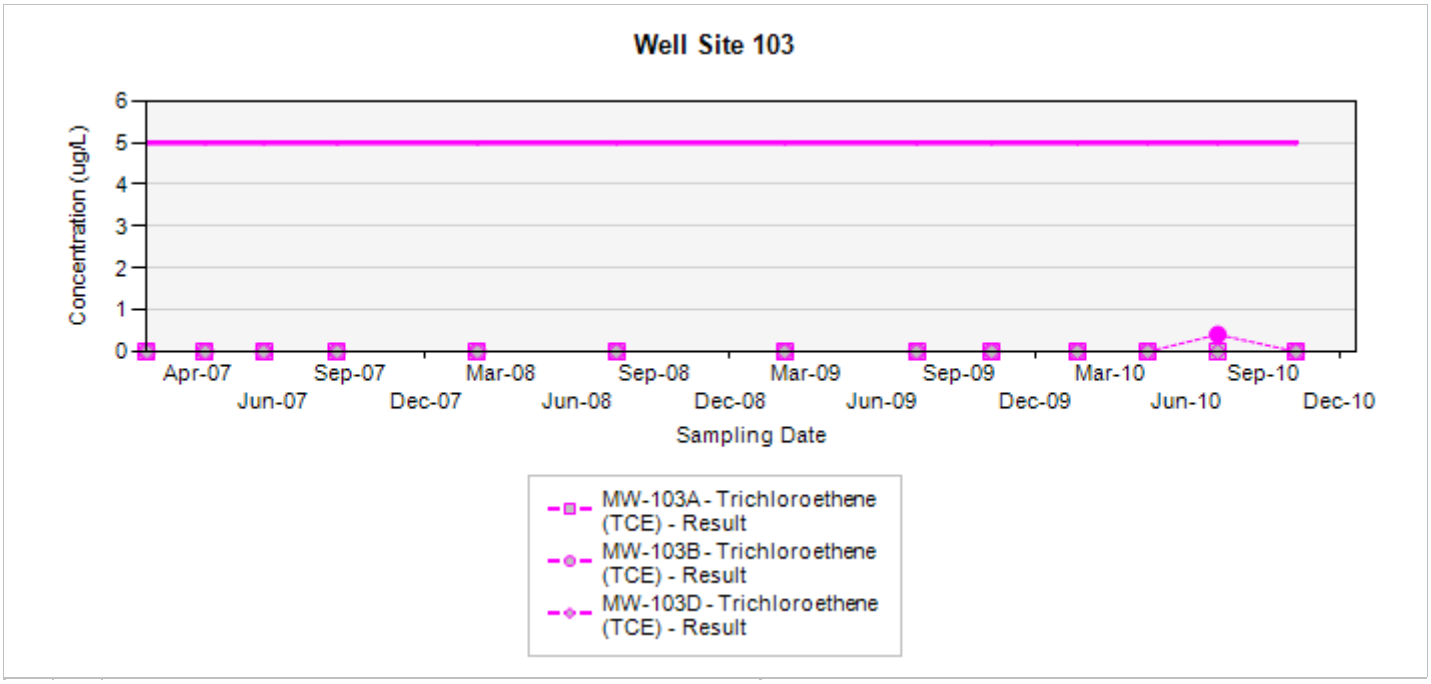

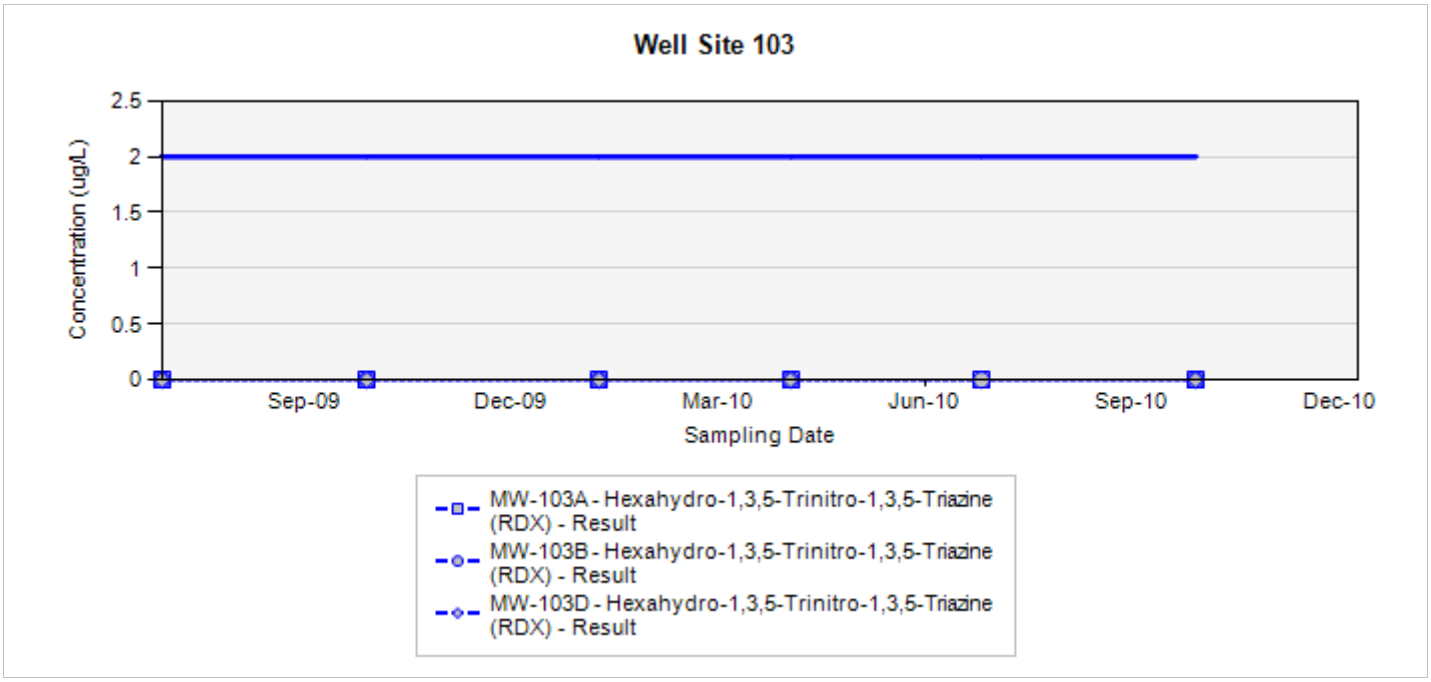

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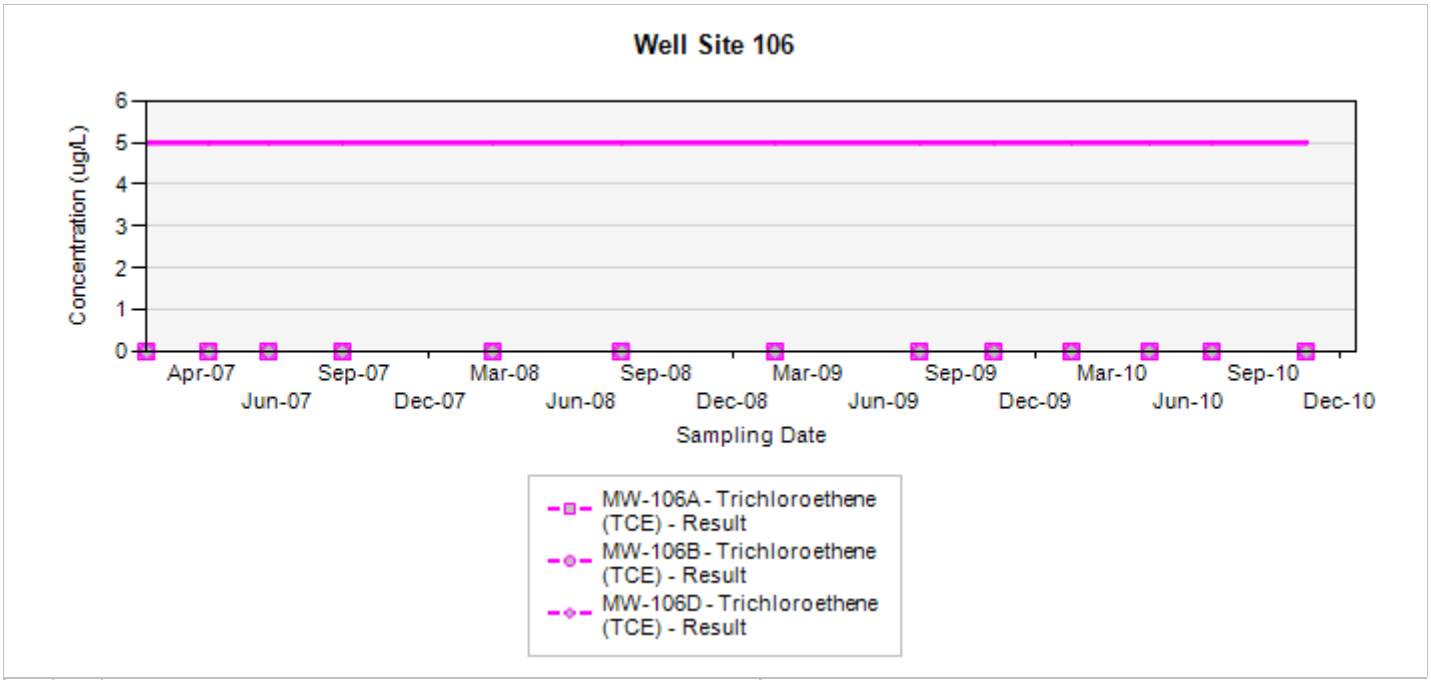

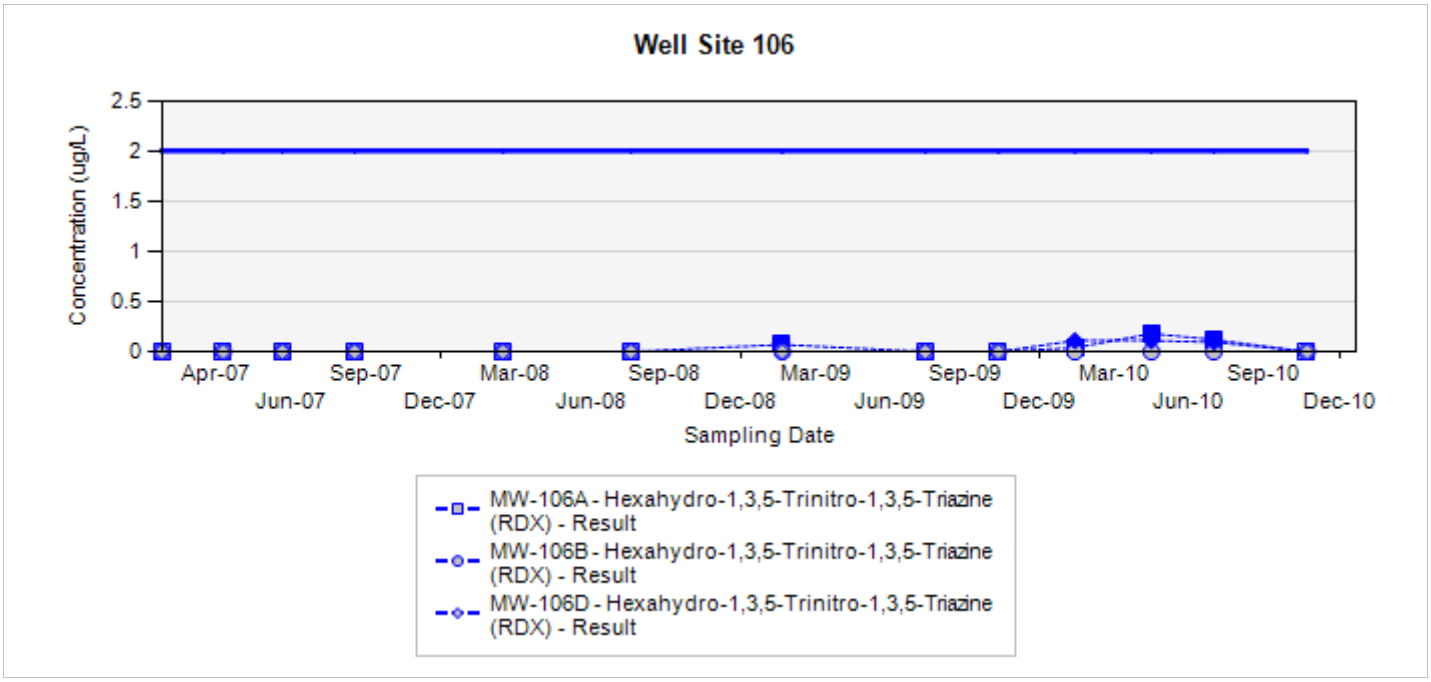

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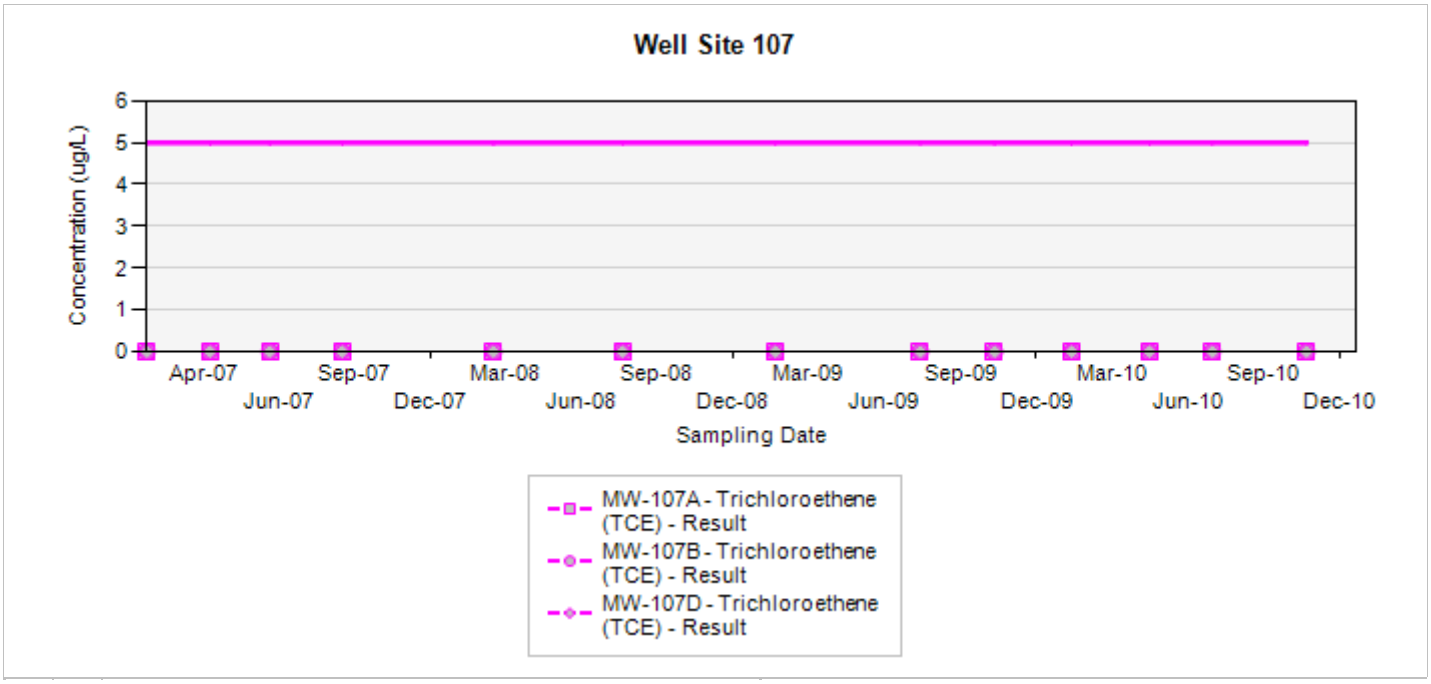

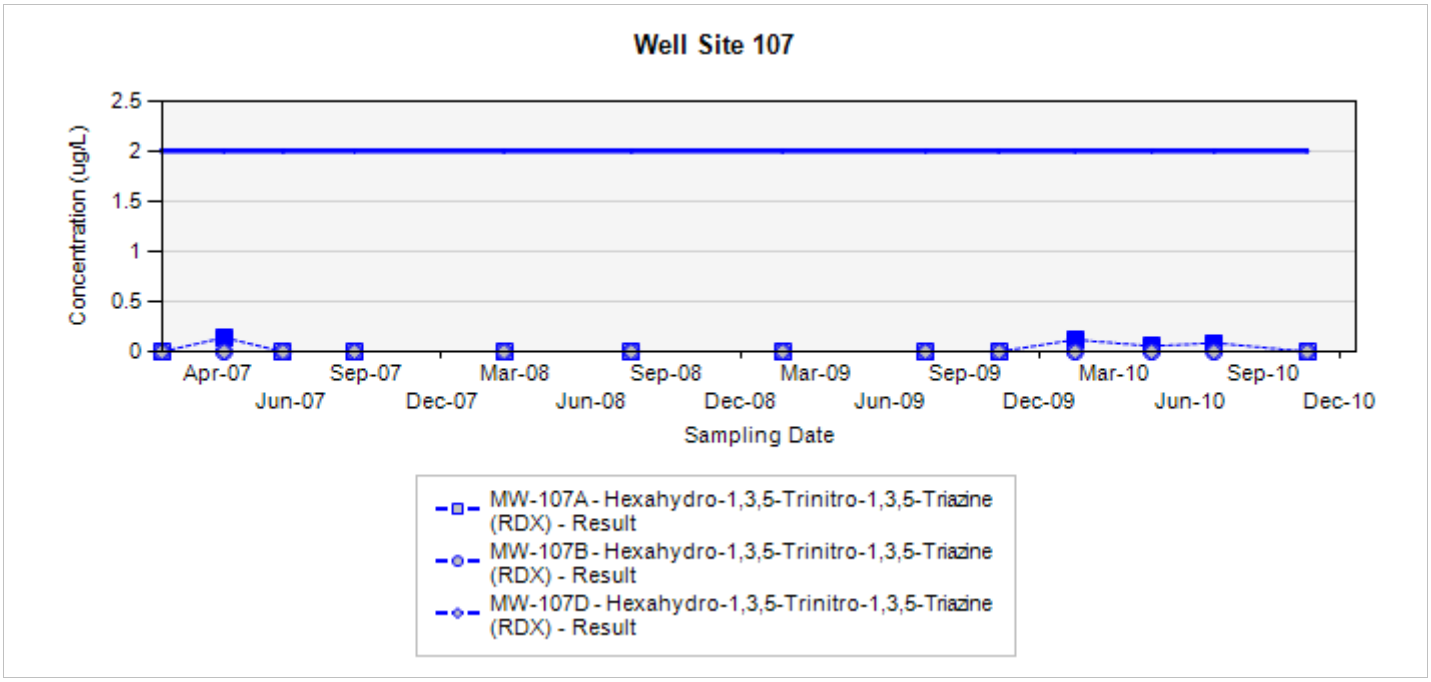

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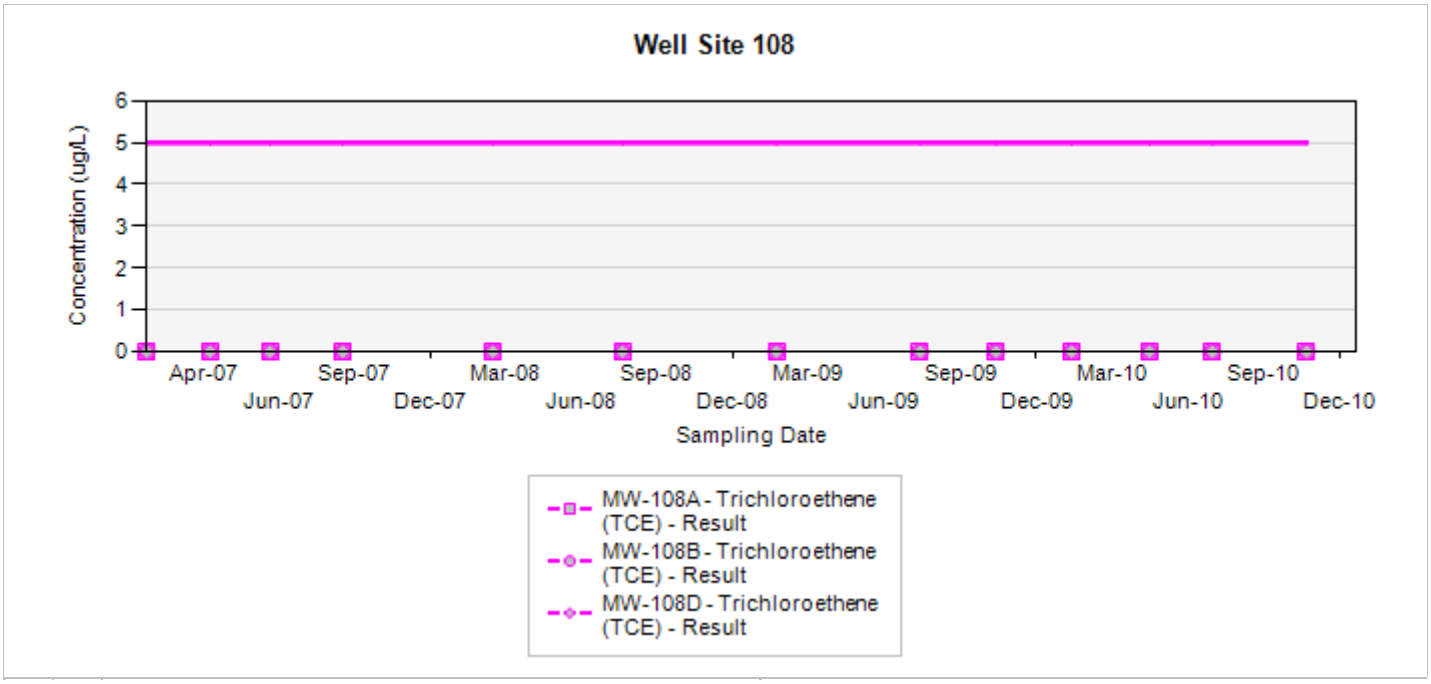

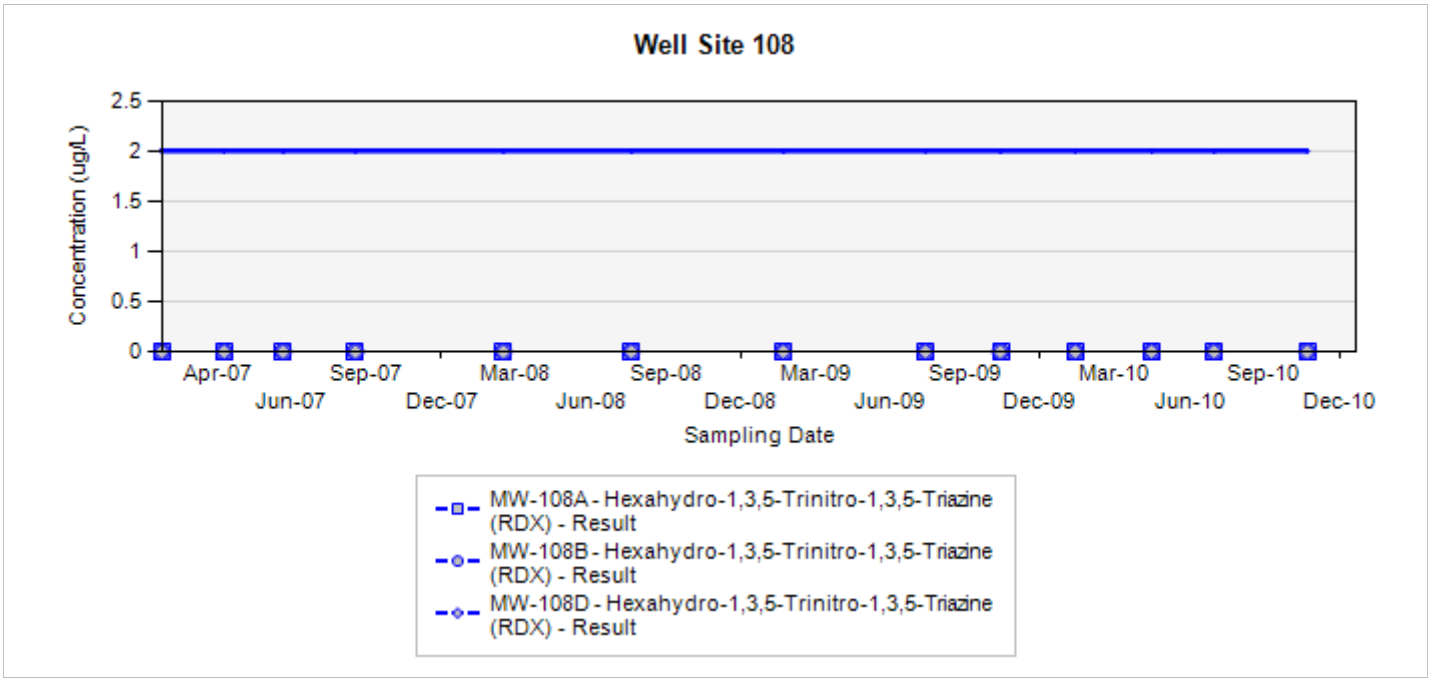

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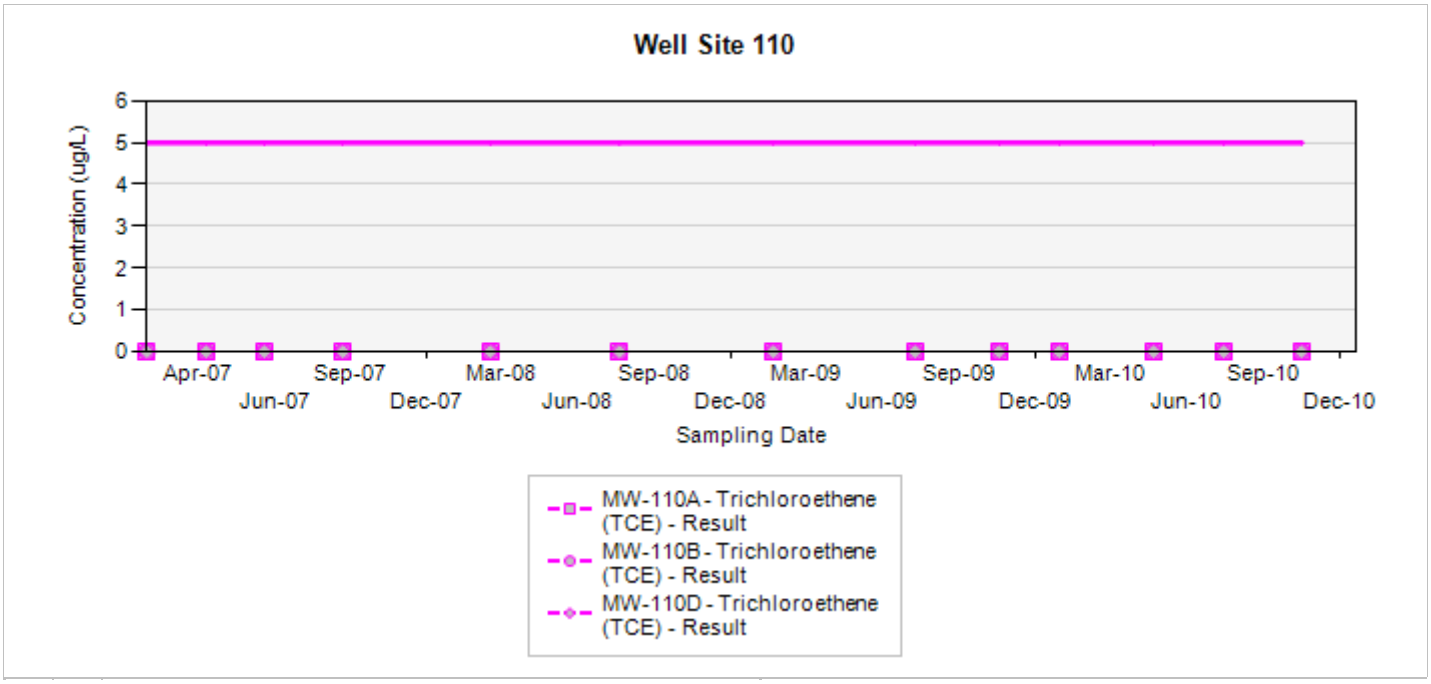

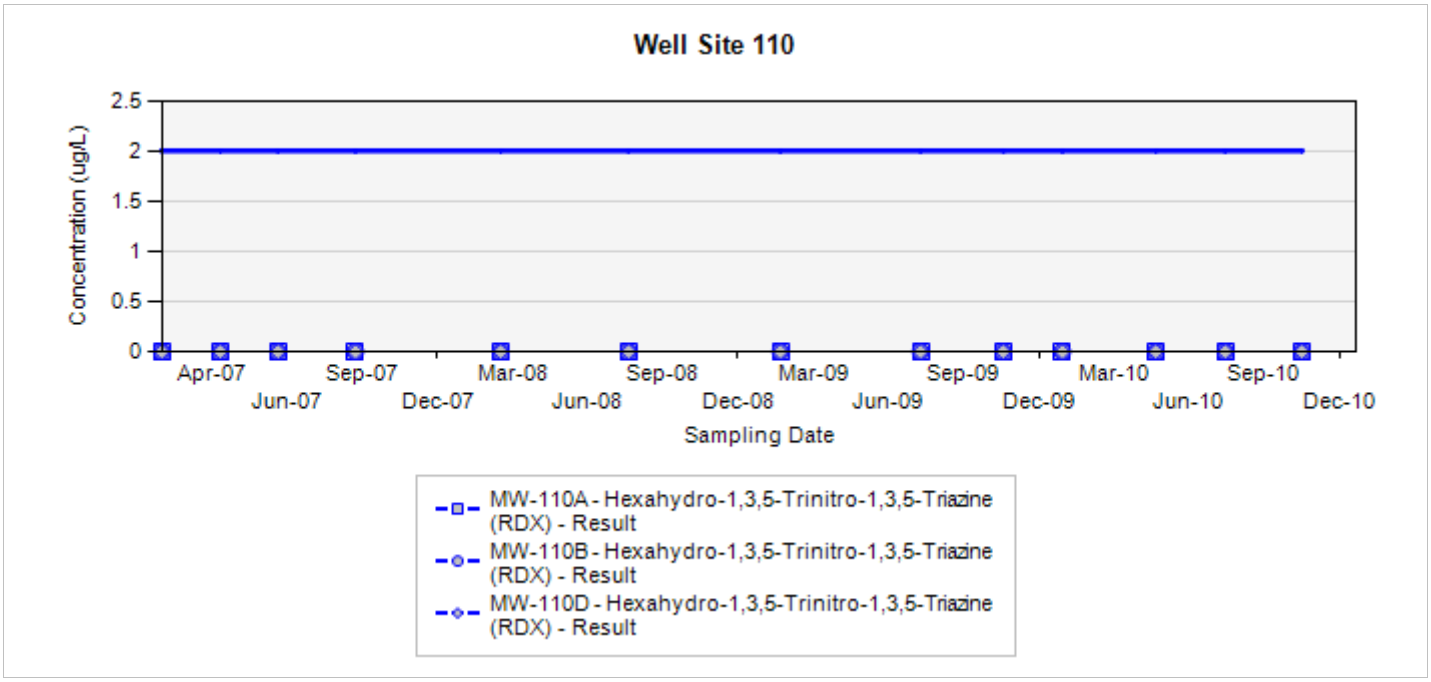

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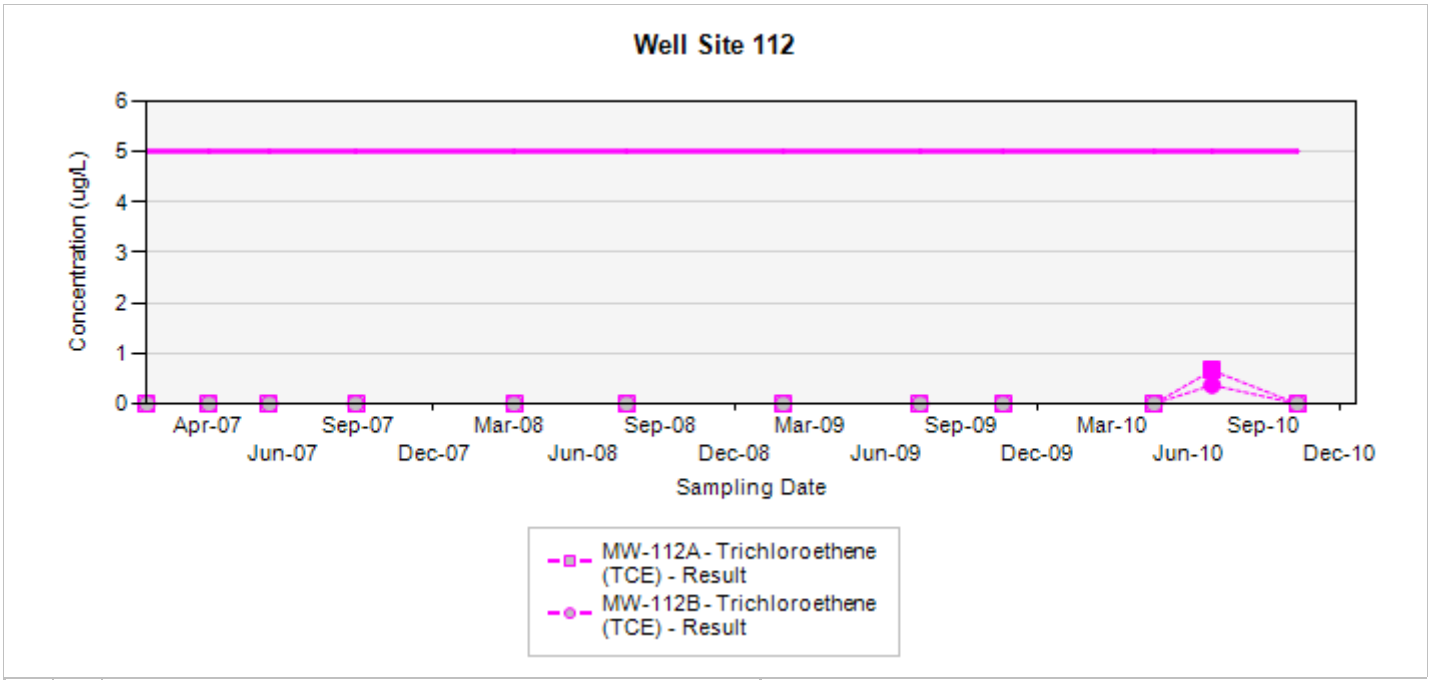

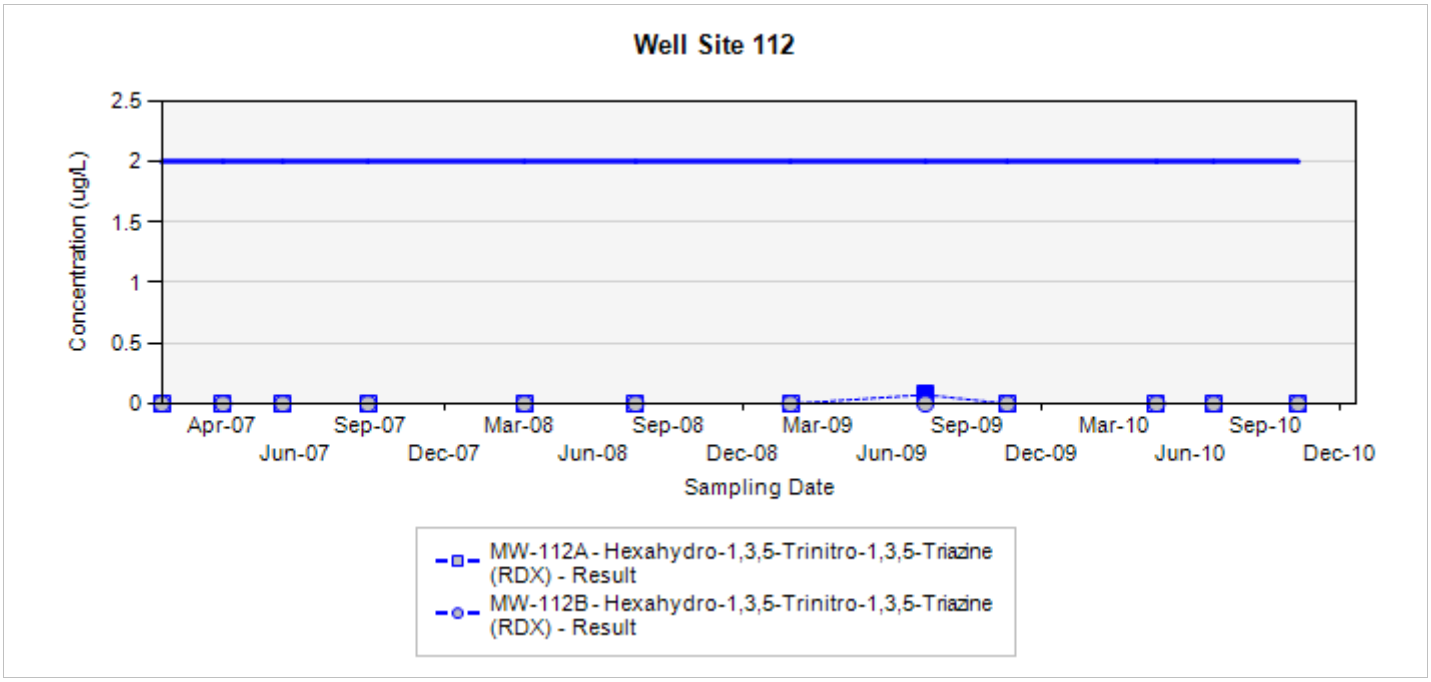

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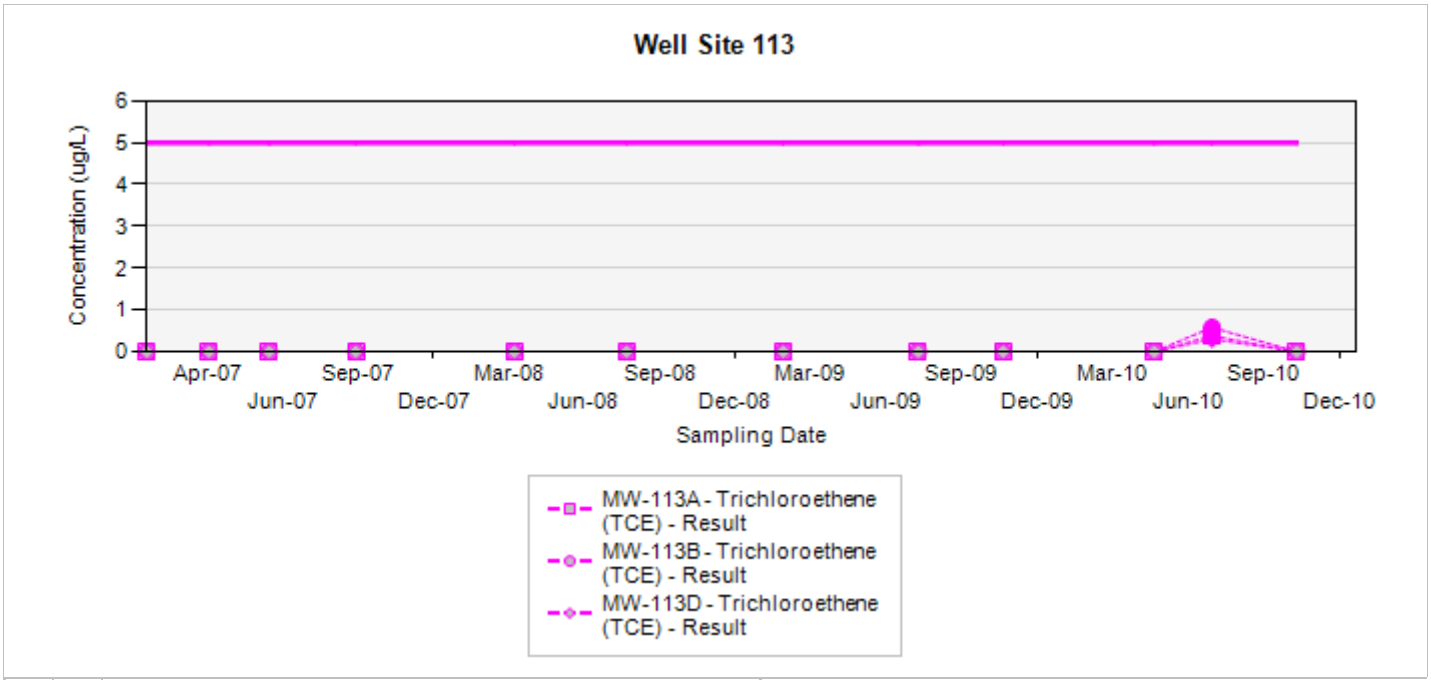

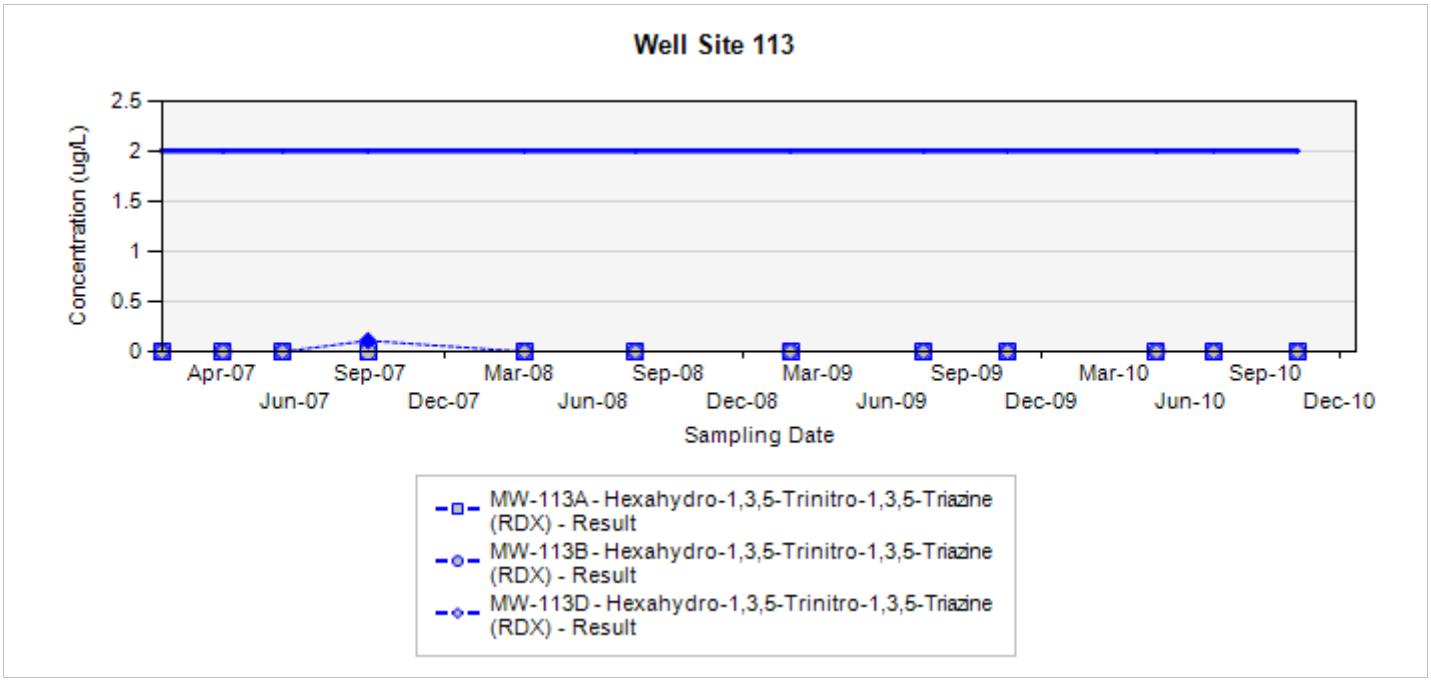

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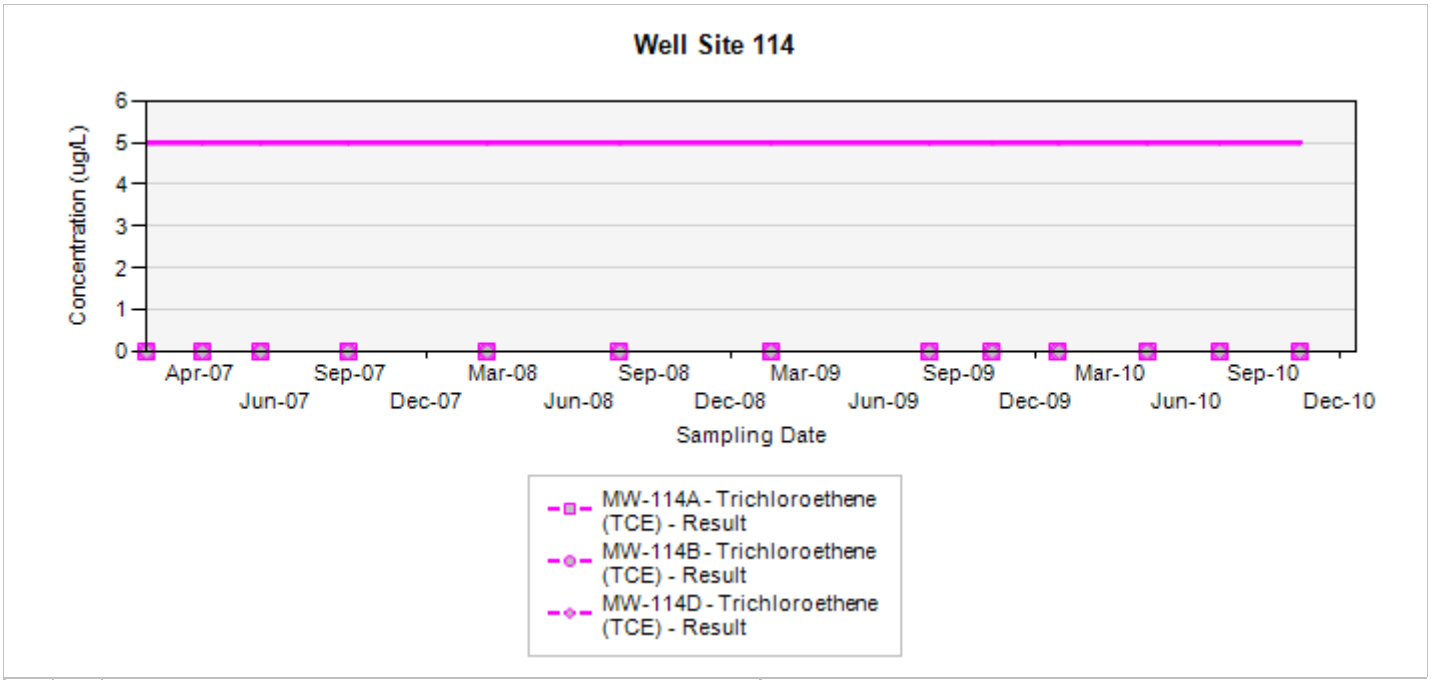

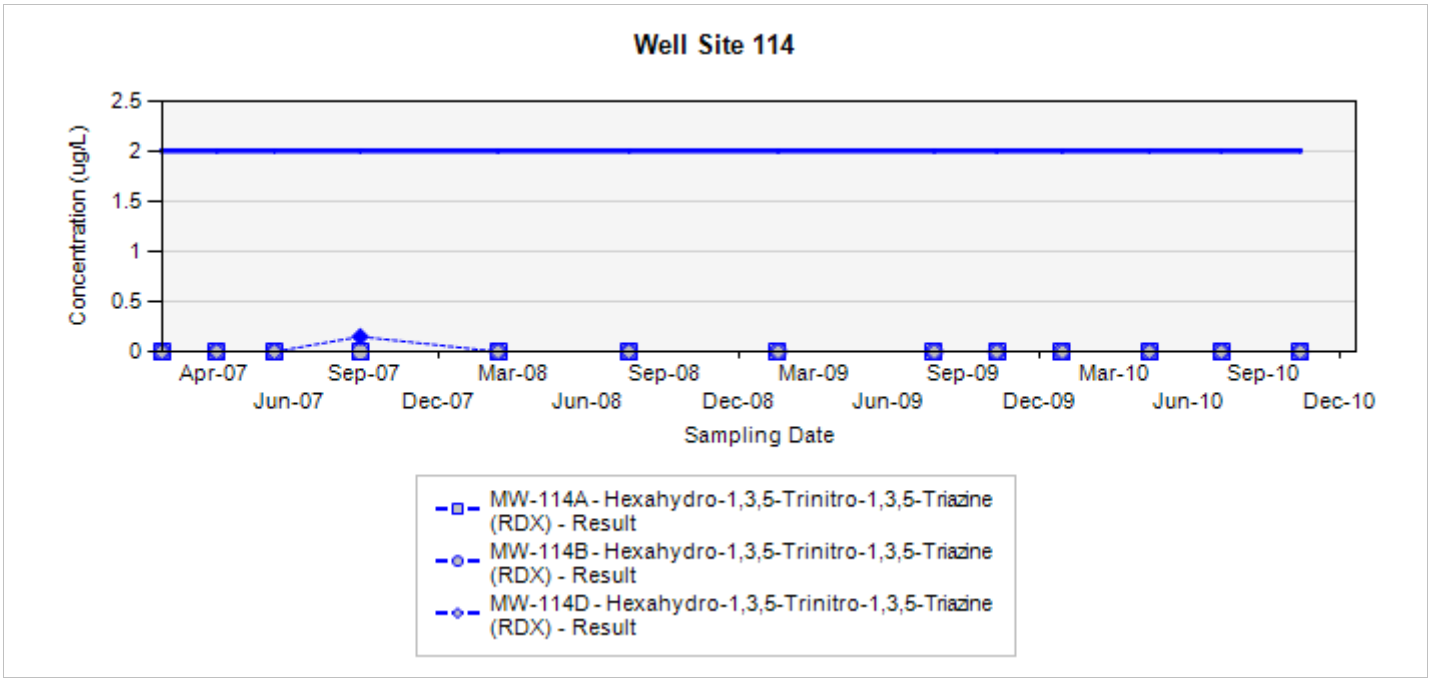

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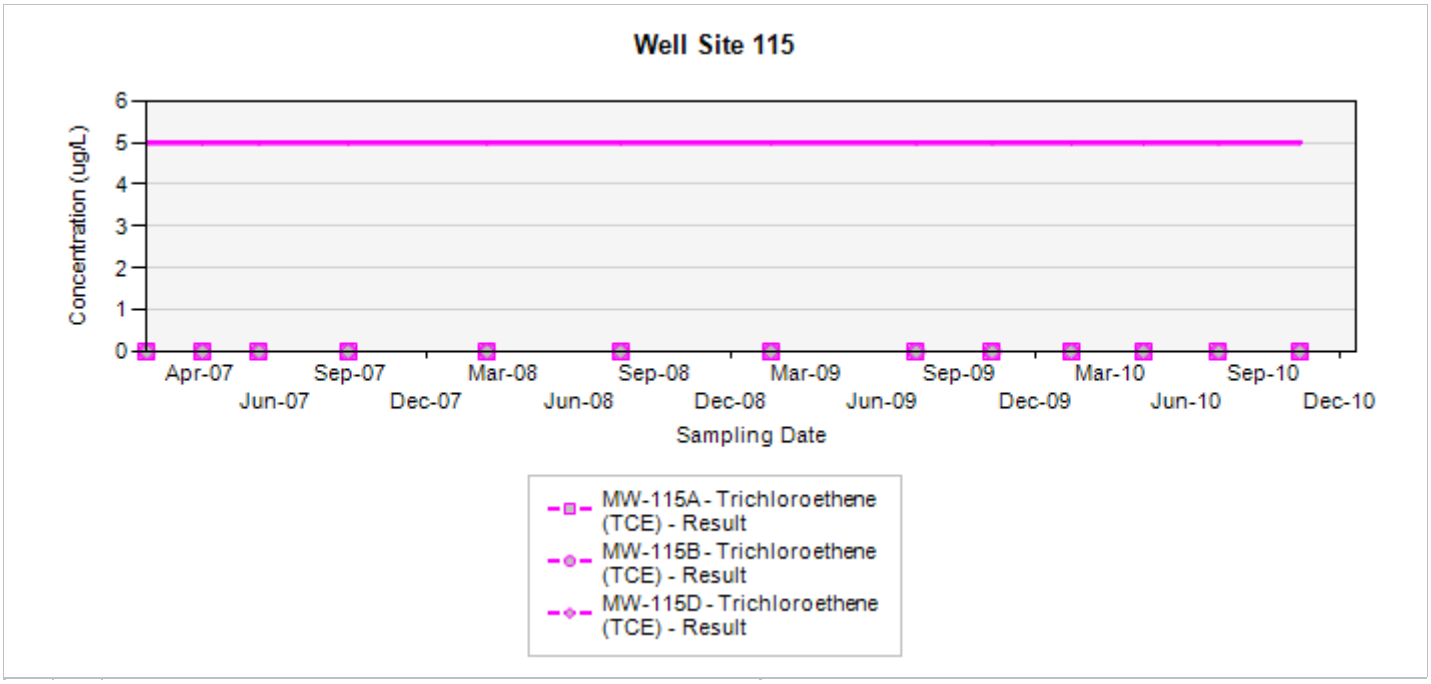

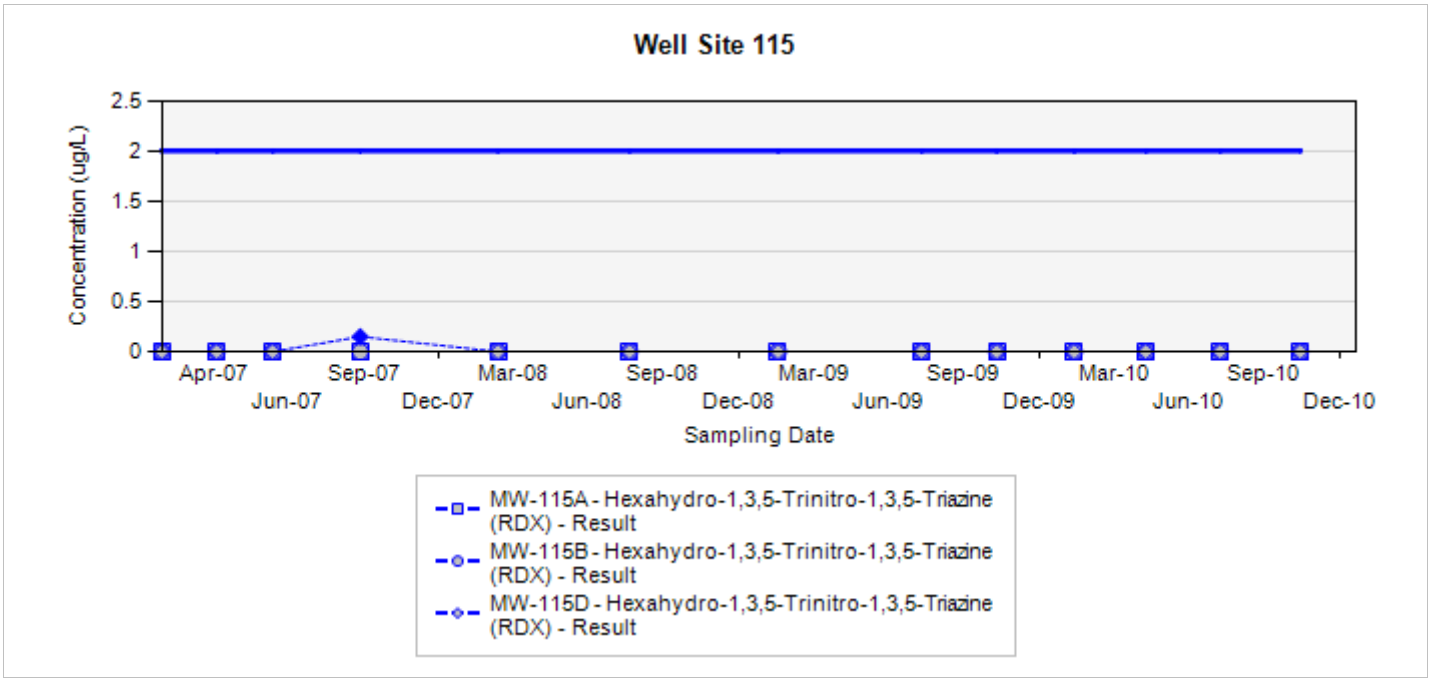

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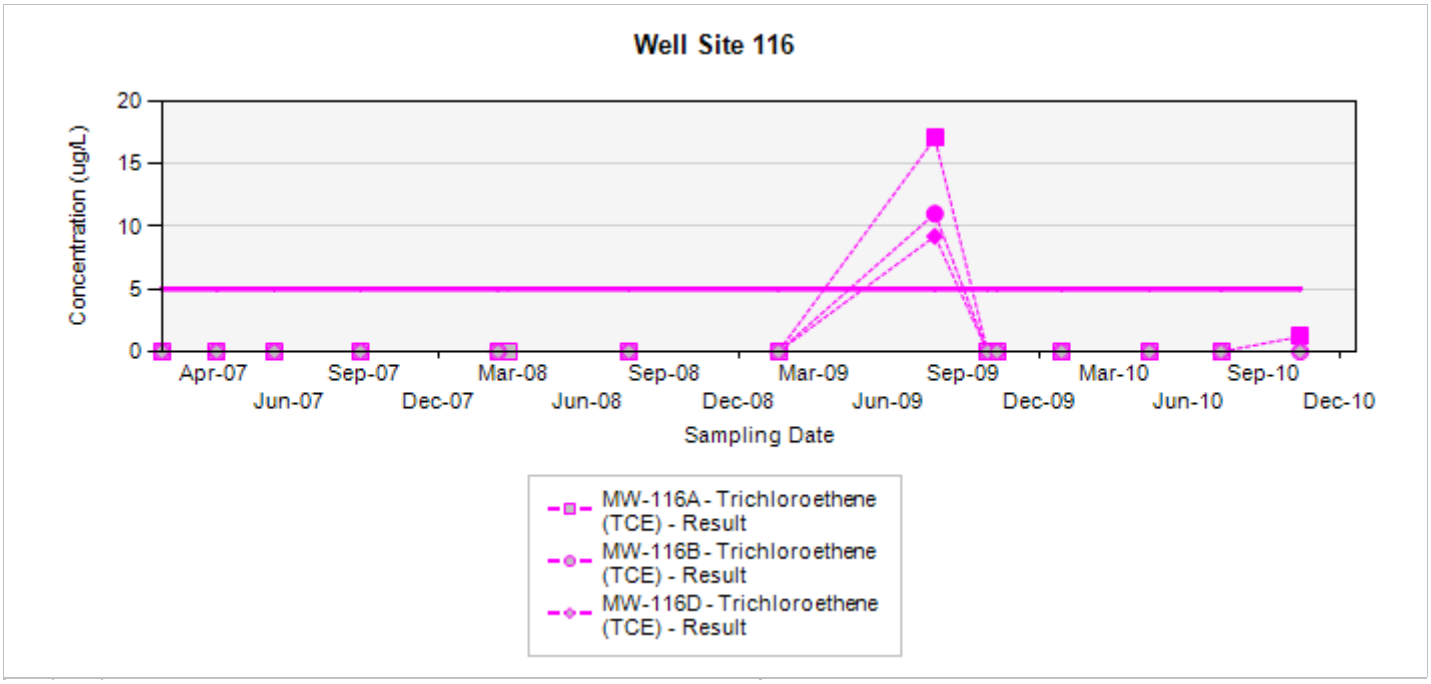

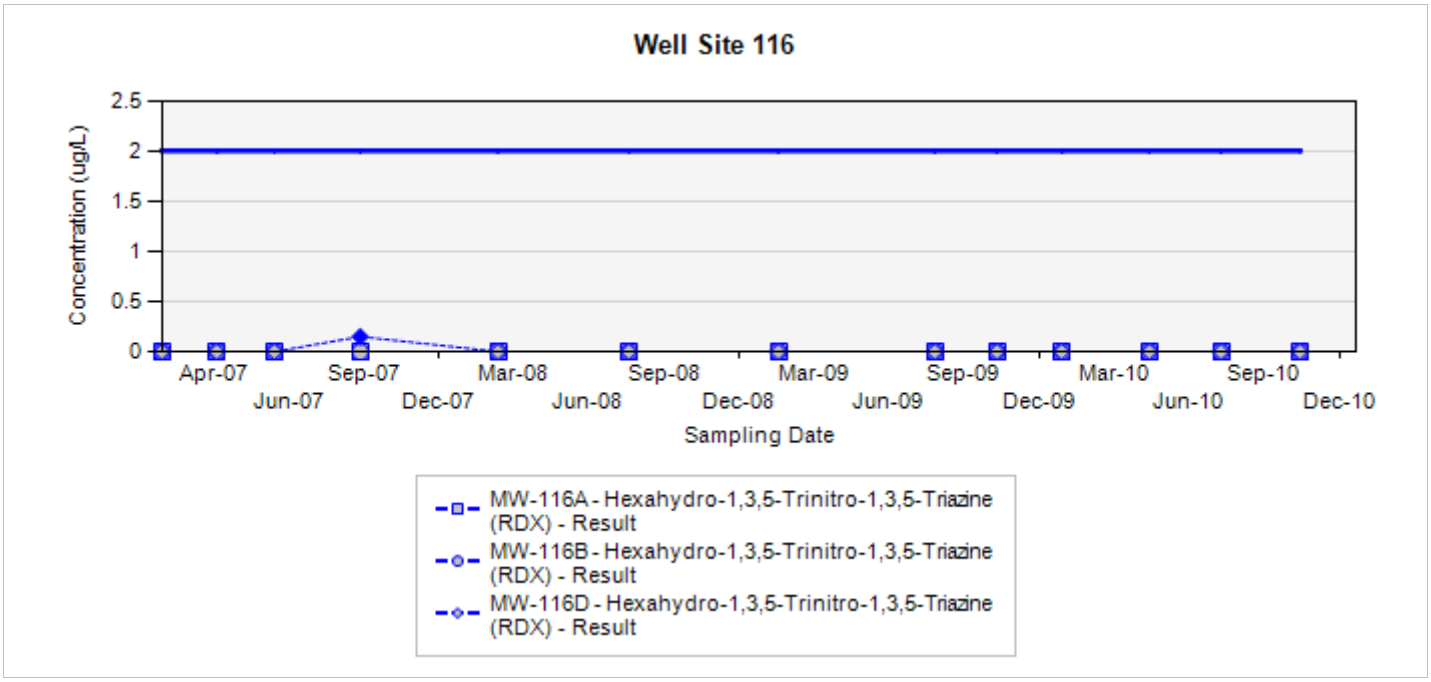

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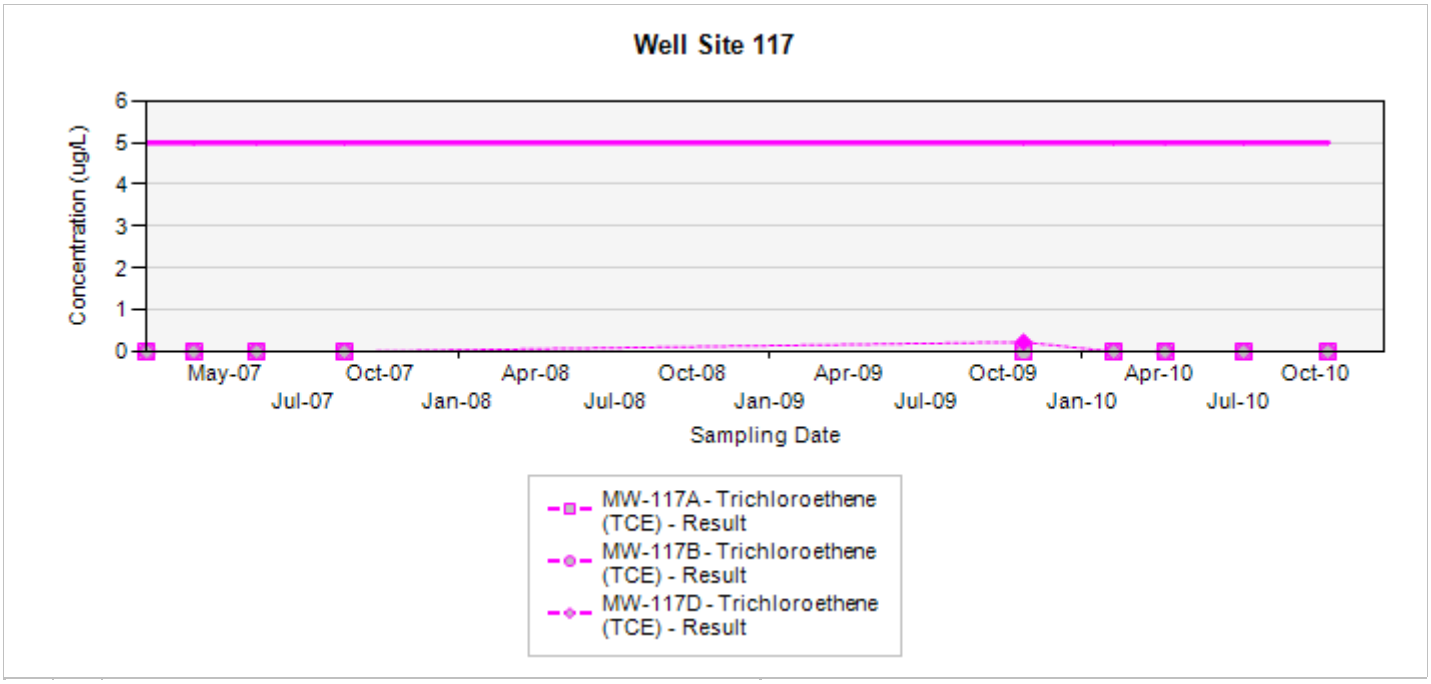

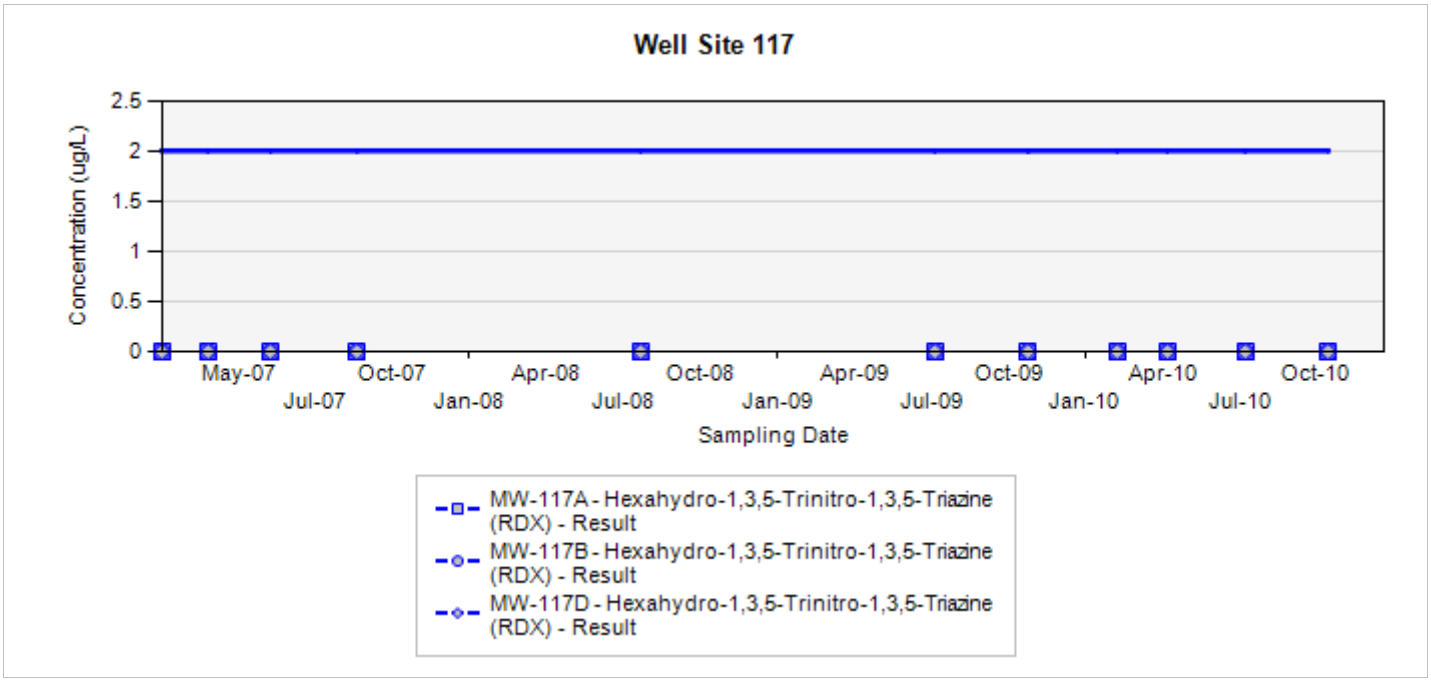

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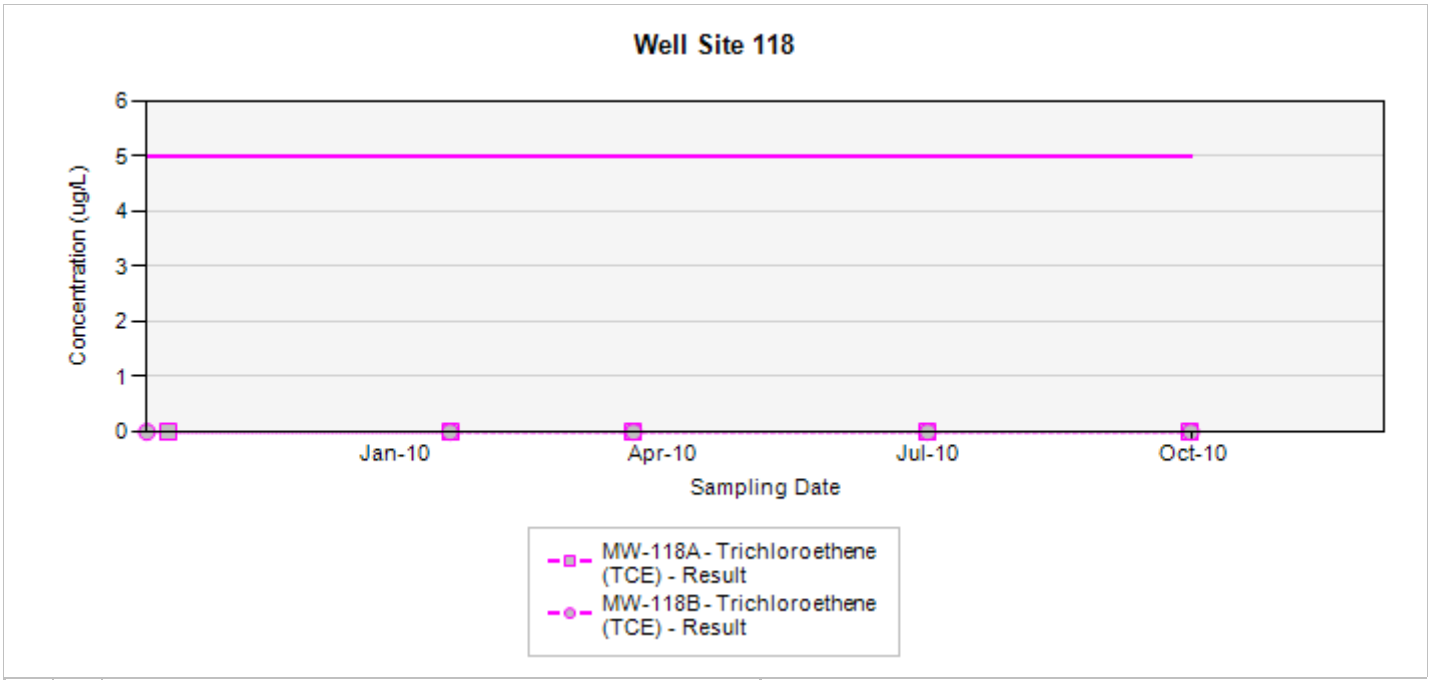

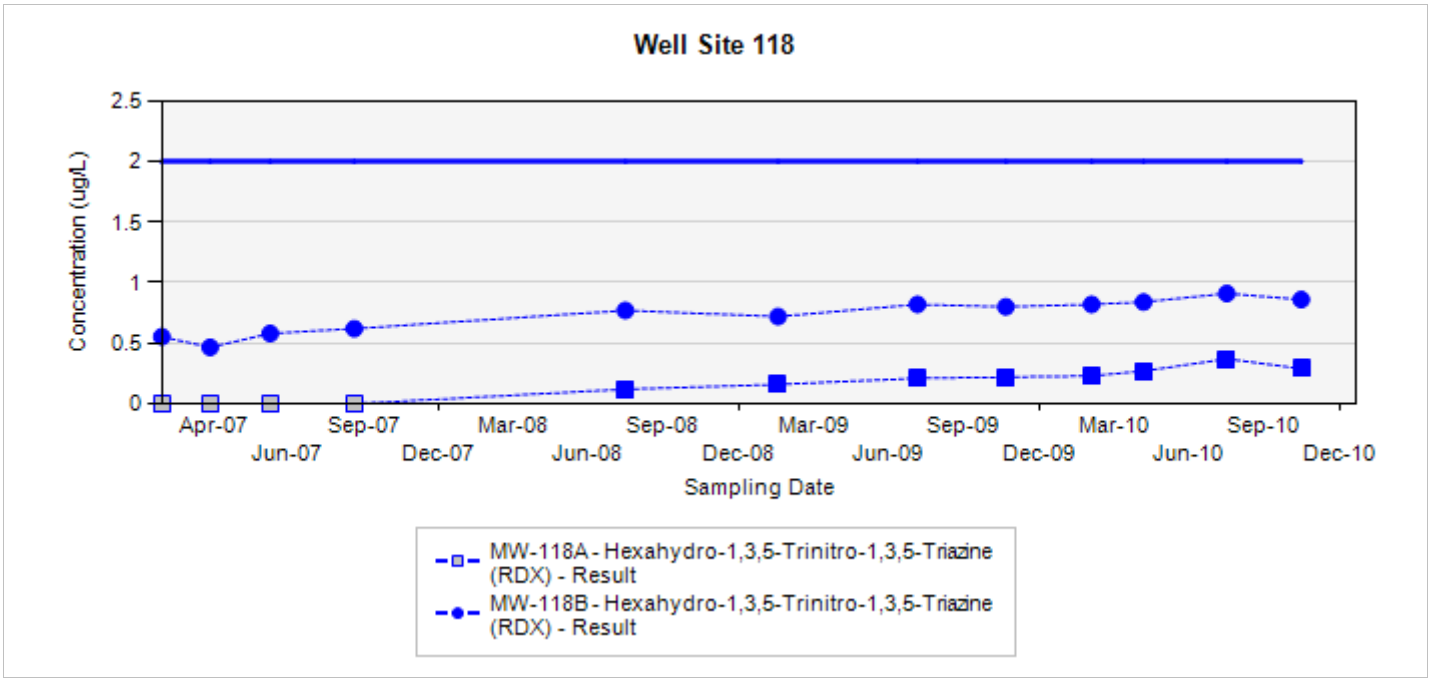

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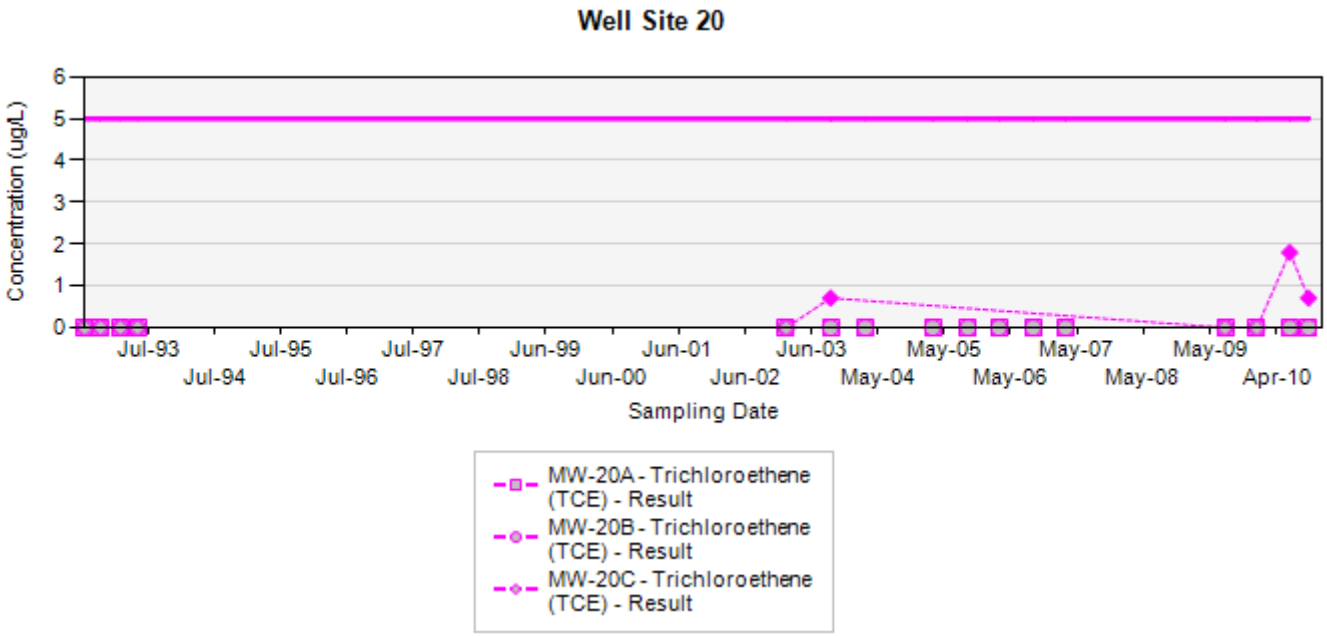
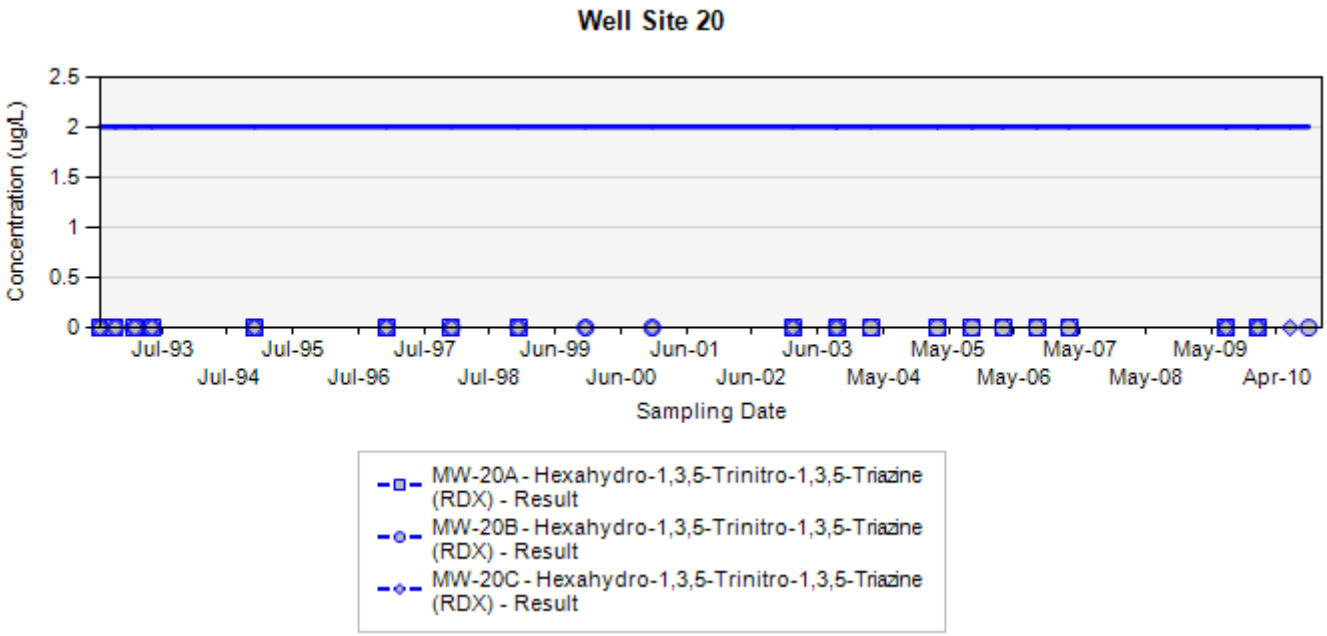
APPENDIX A.2

COMPLIANCE MONITORING WELL CONCENTRATION TREND CHARTS

Concentration Trend Charts for Compliance Monitoring Wells





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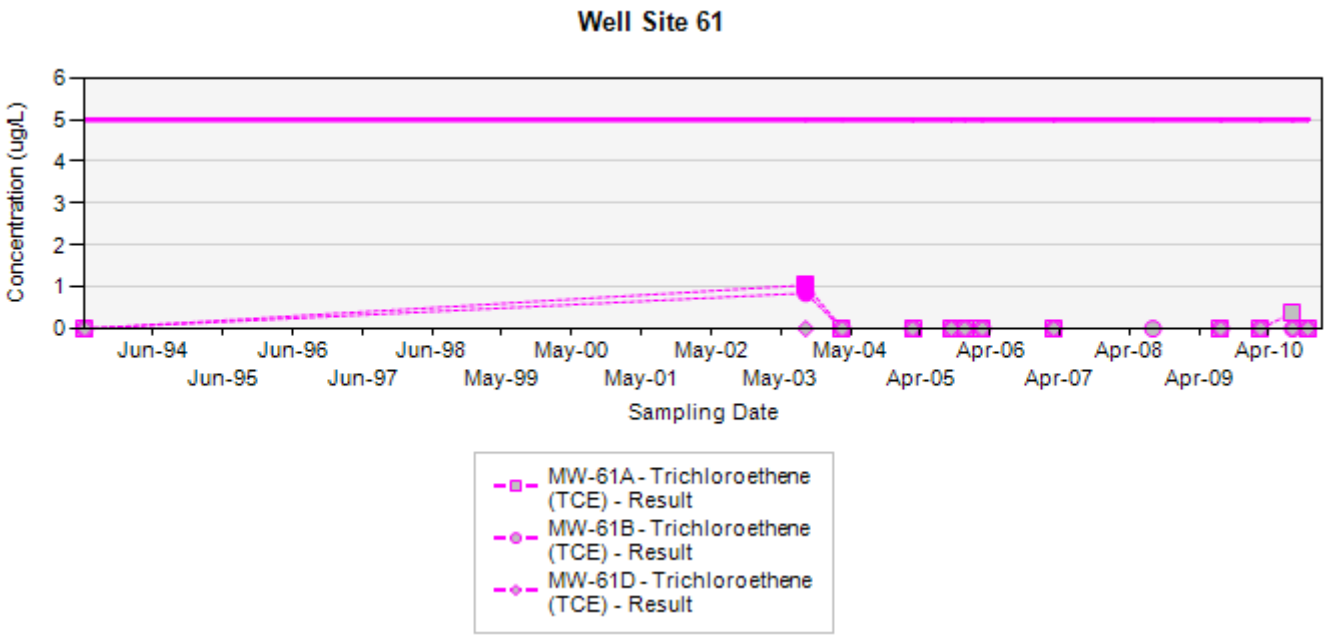

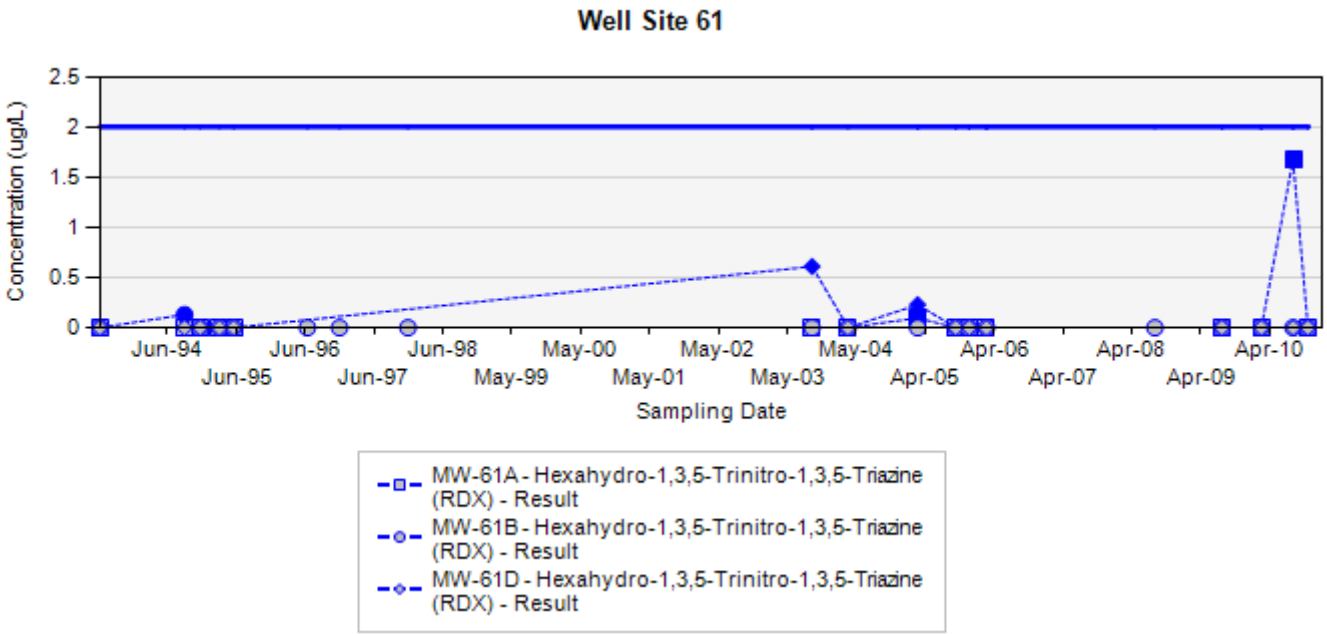

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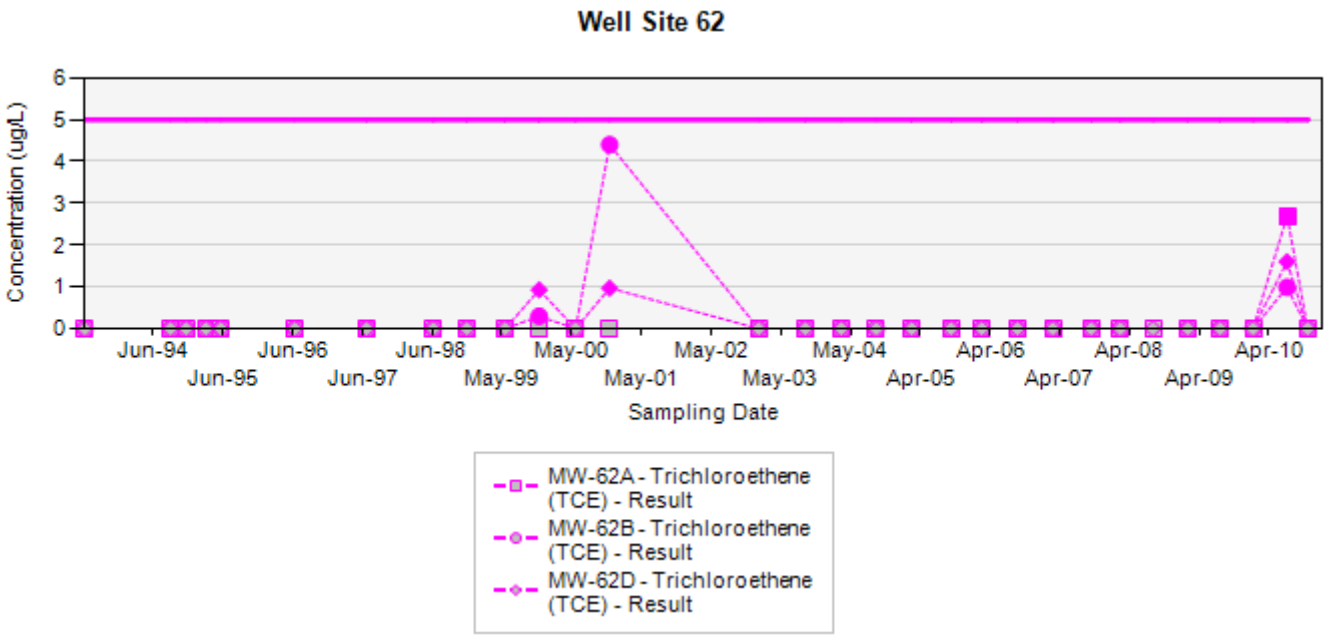

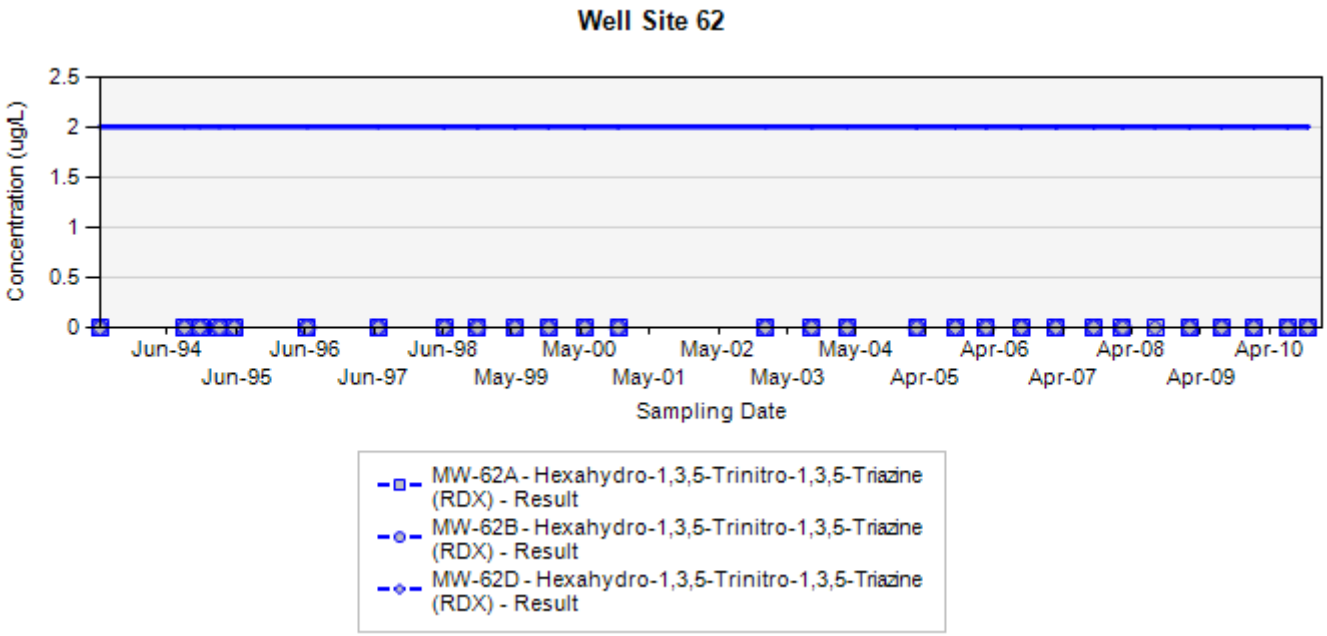

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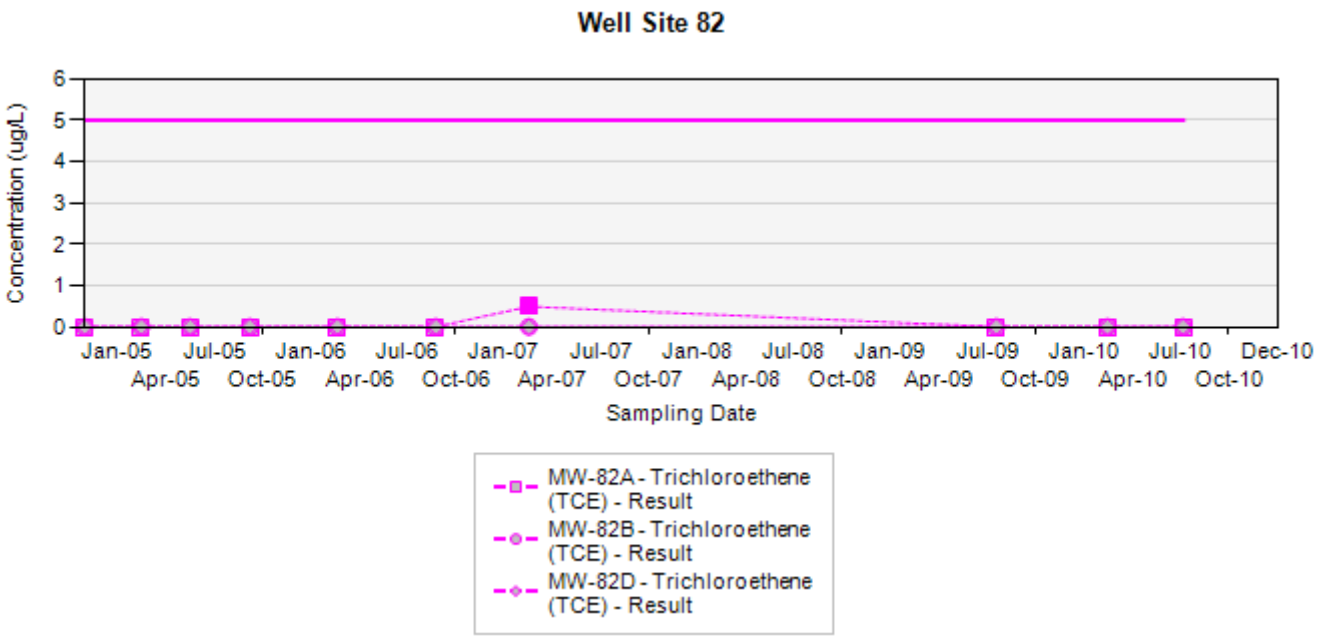

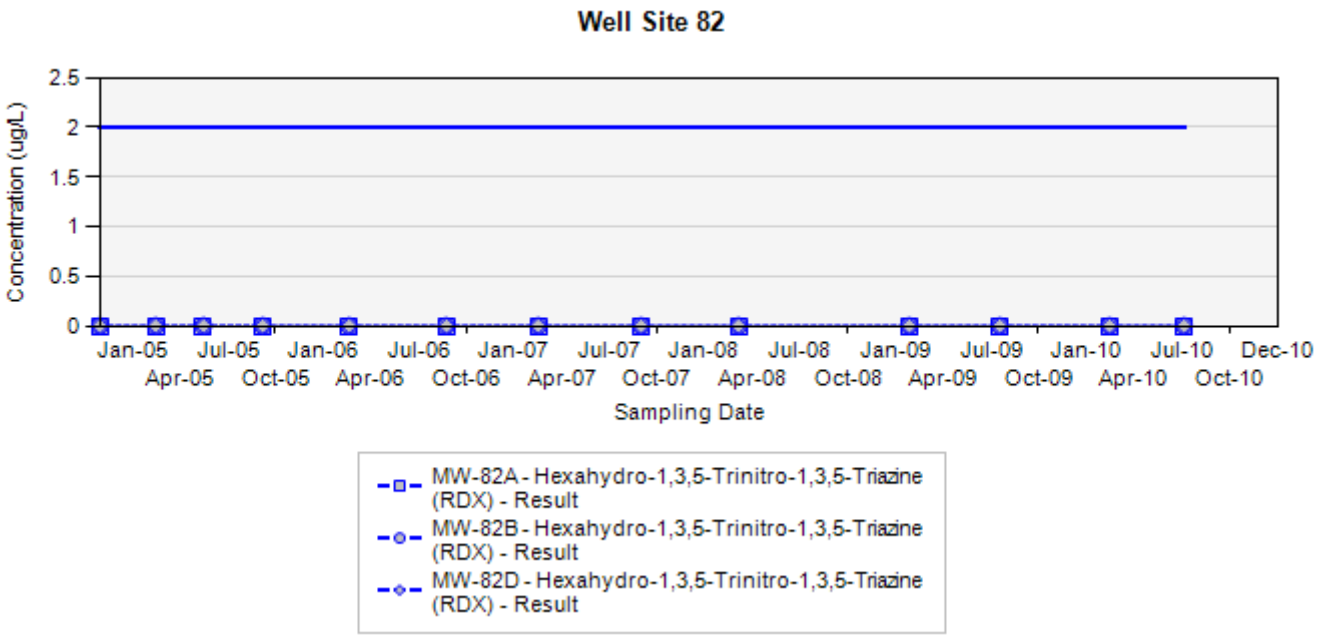

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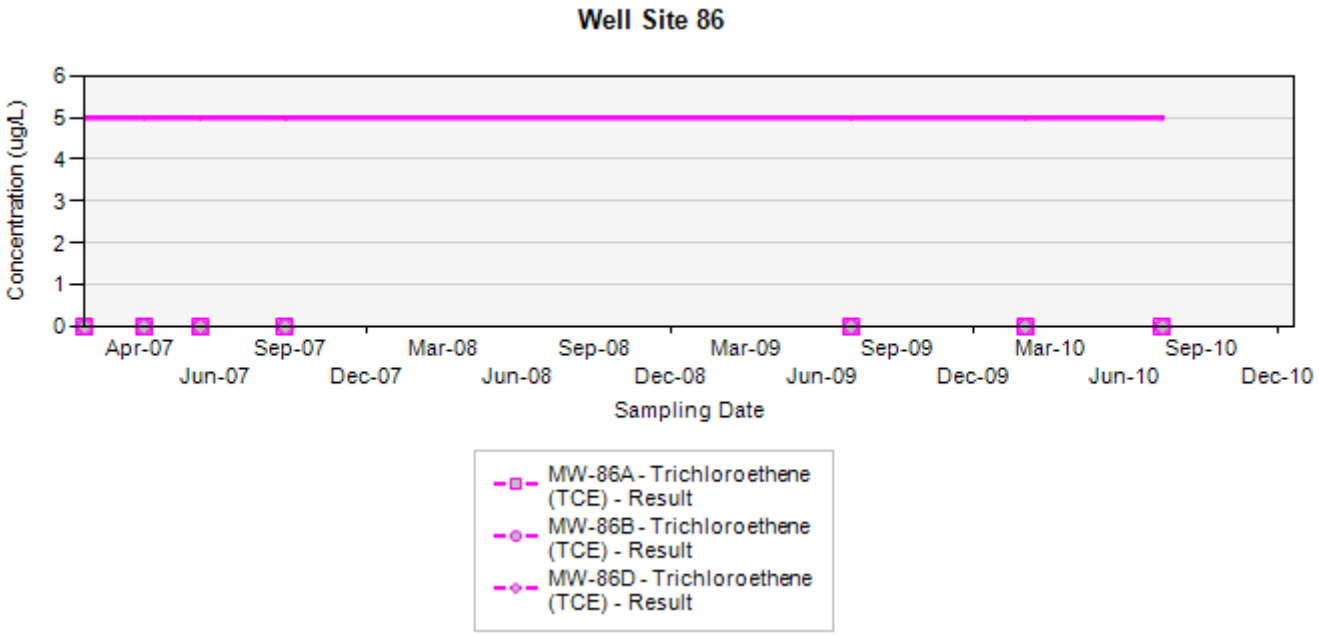

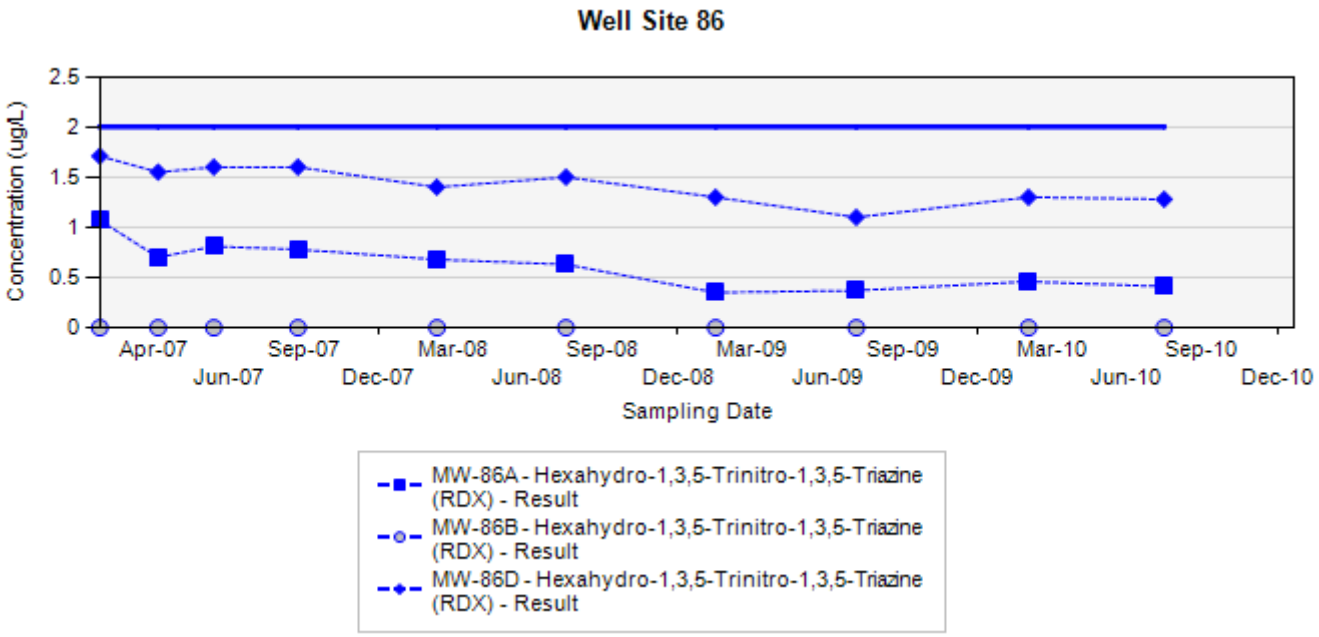

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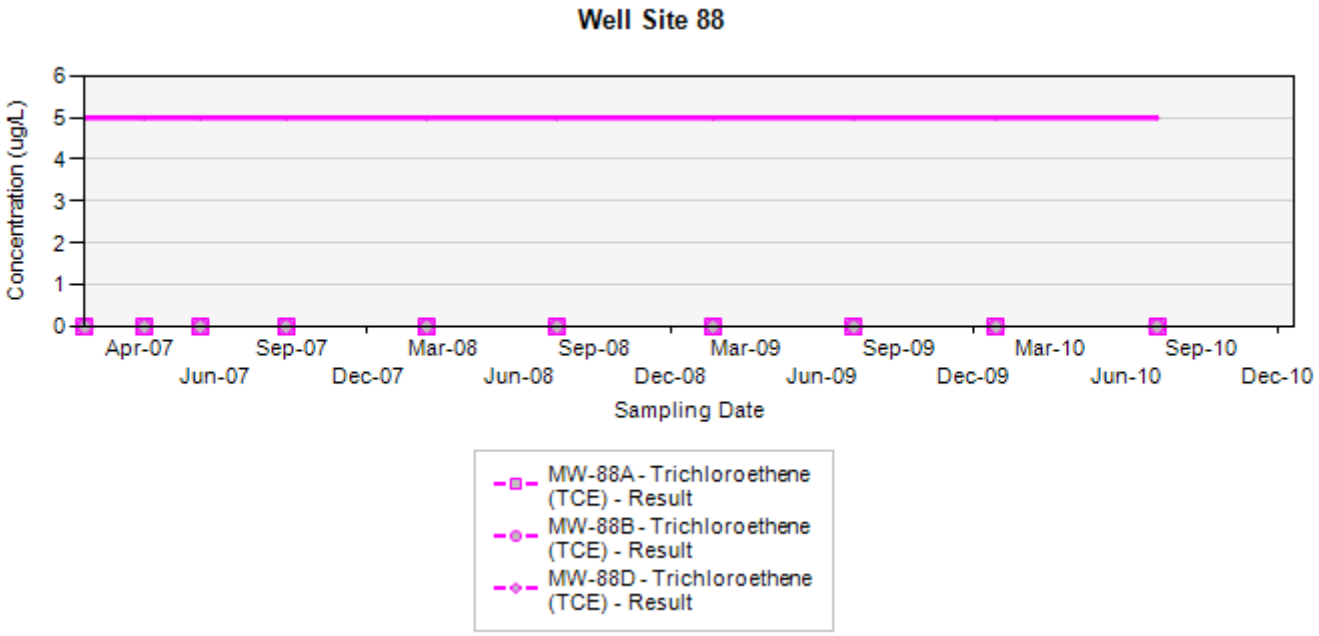
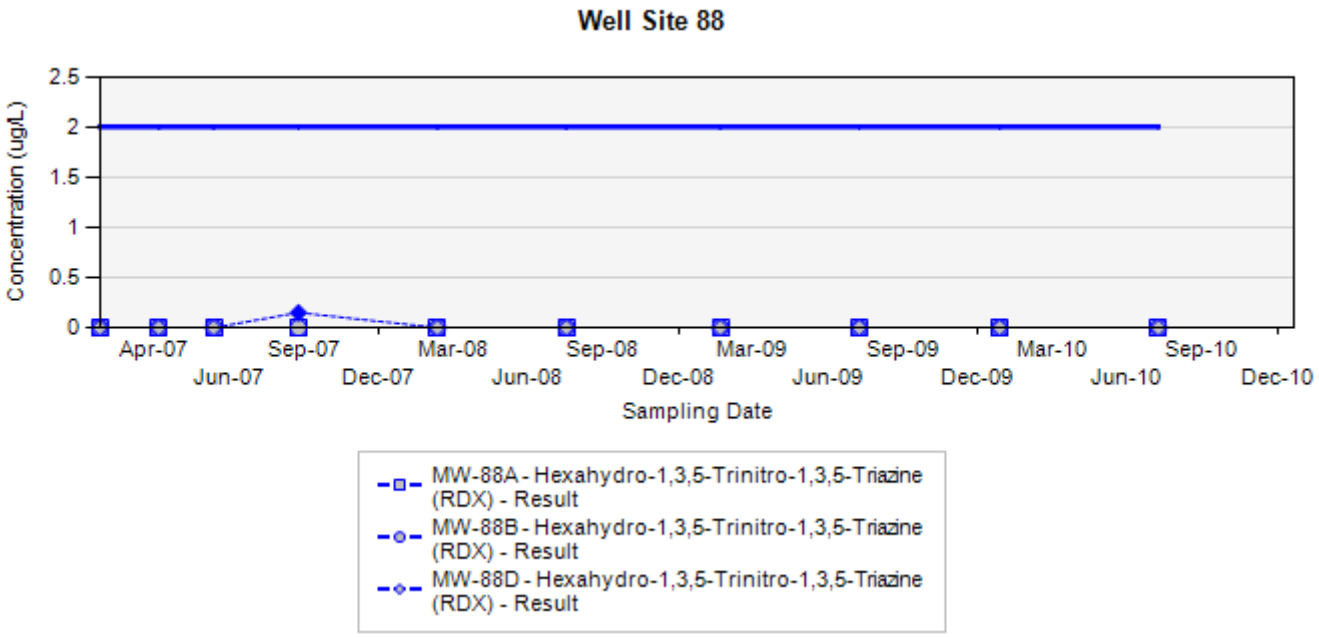


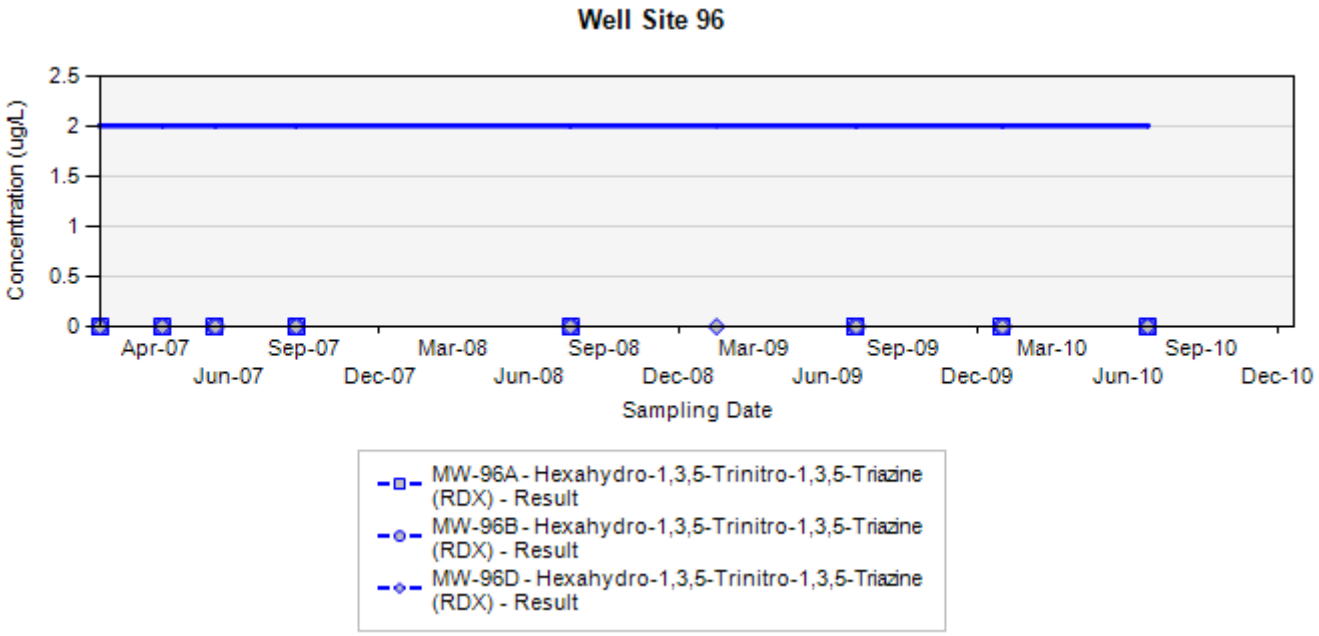


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Compliance Monitoring Wells

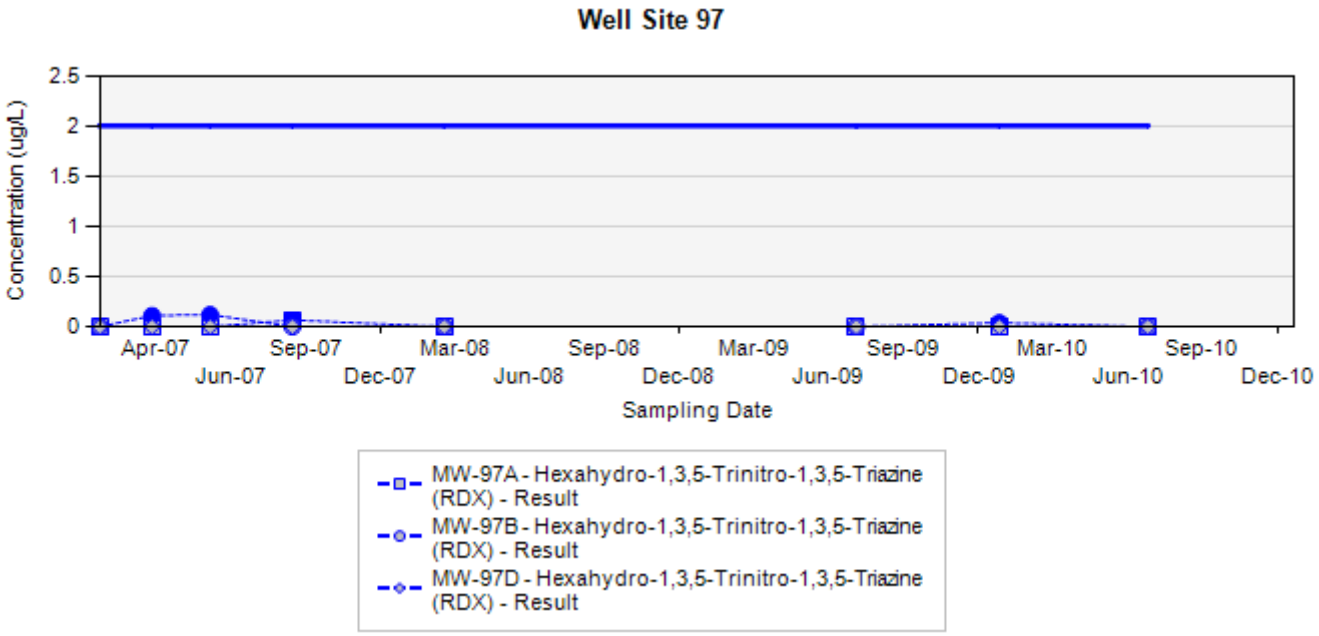


Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Compliance Monitoring Wells

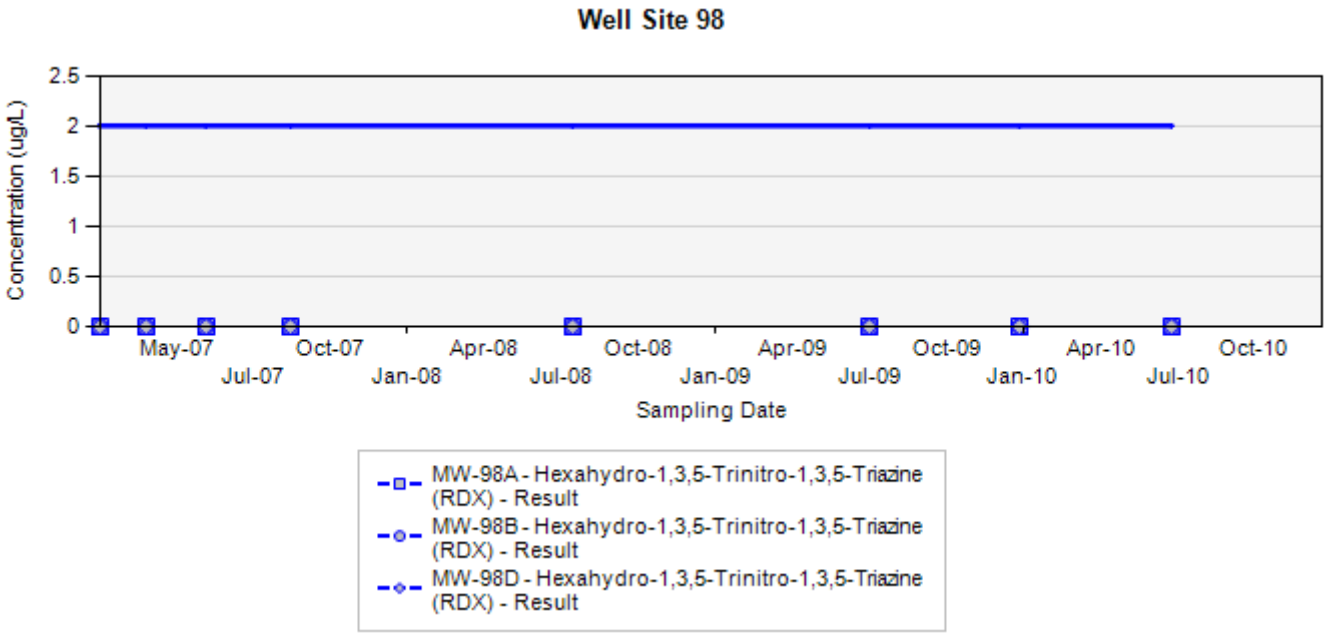


Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Compliance Monitoring Wells

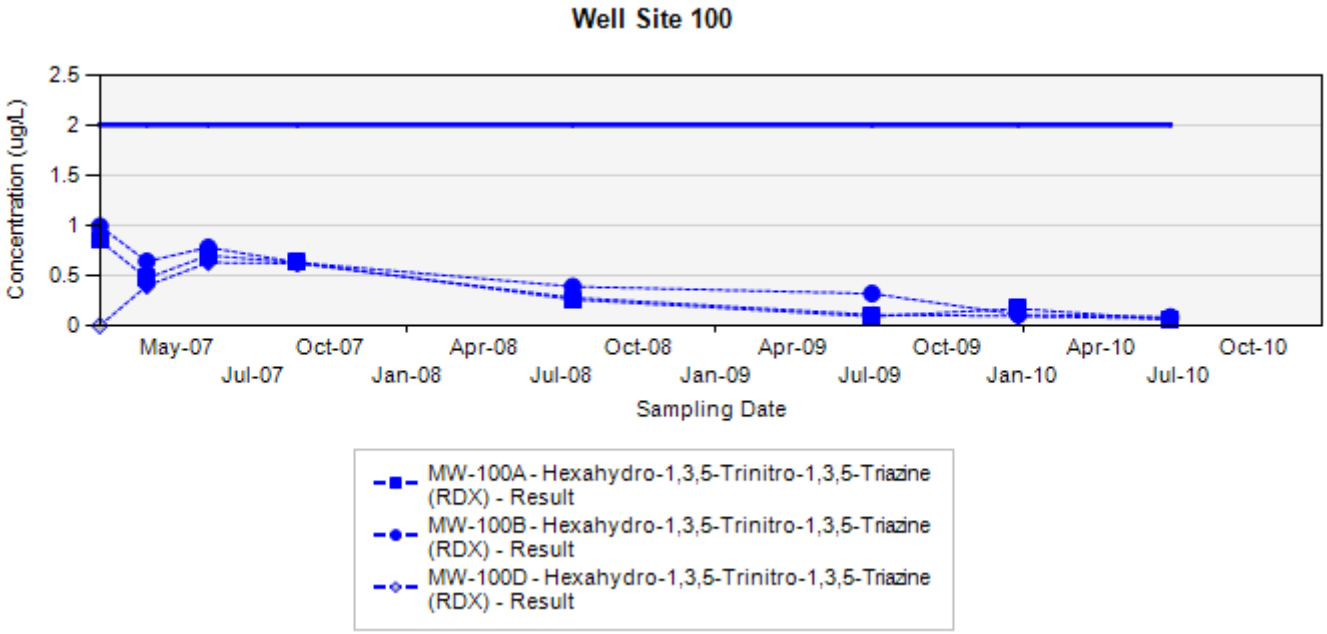


Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Compliance Monitoring Wells

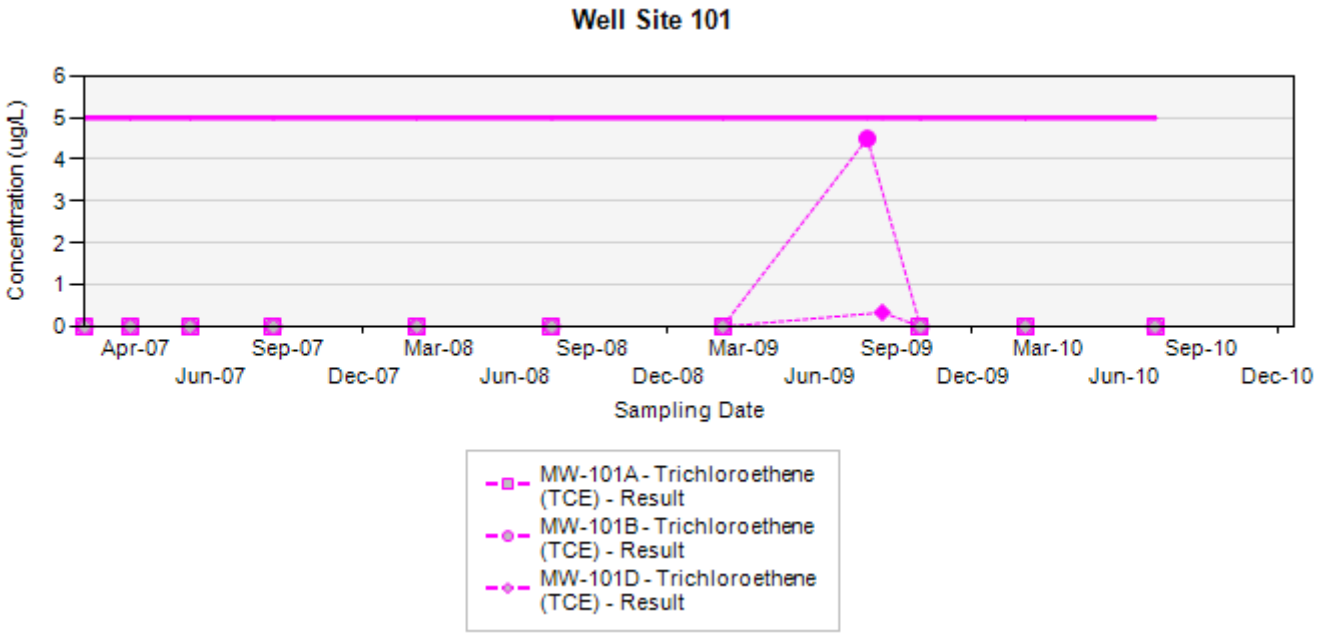


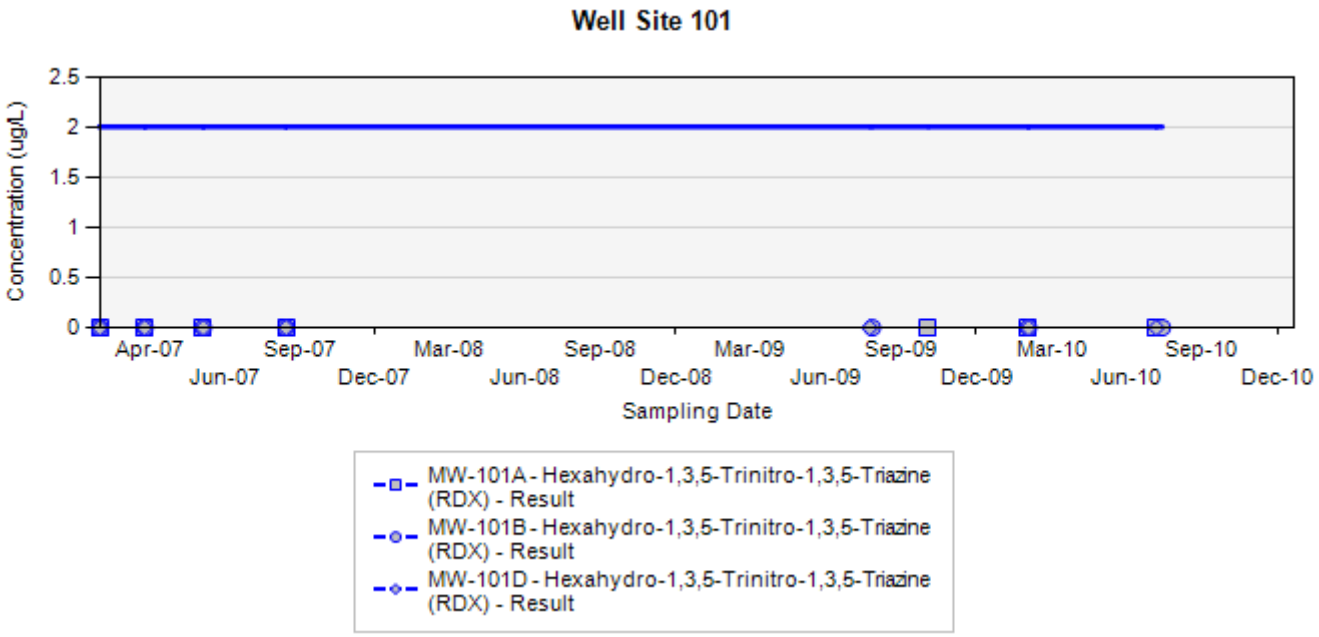
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Compliance Monitoring Wells





Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

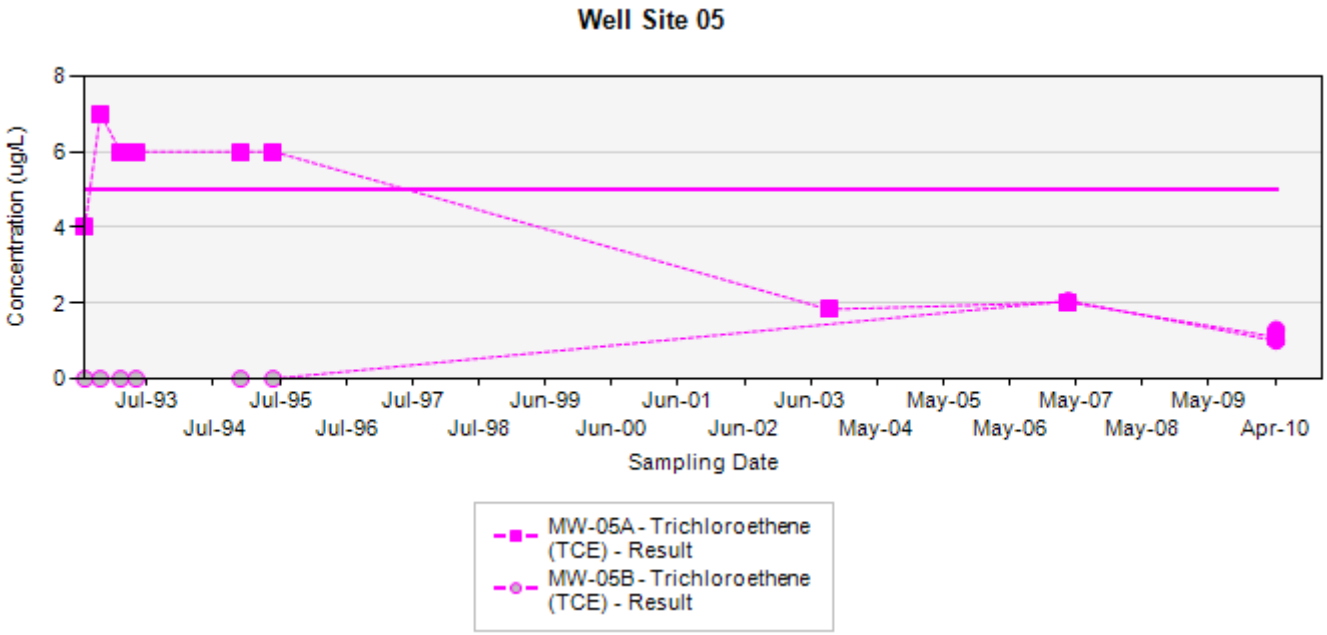
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

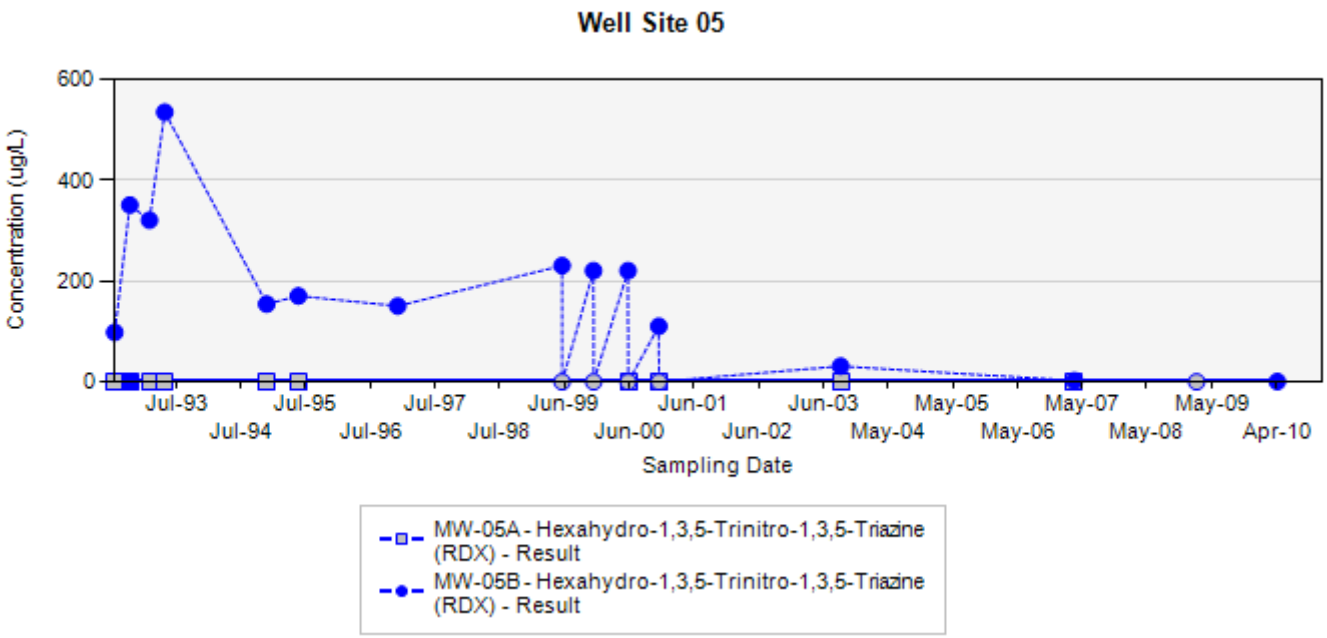
ug/L: micrograms per liter
Silver markers indicate non-detected results

APPENDIX A.3

LOAD LINE 2 AND LOAD LINE 3 INTERIOR PLUME MONITORING WELL CONCENTRATION TREND CHARTS

Concentration Trend Charts for Load Line 2 and Load Line 3 Monitoring Wells



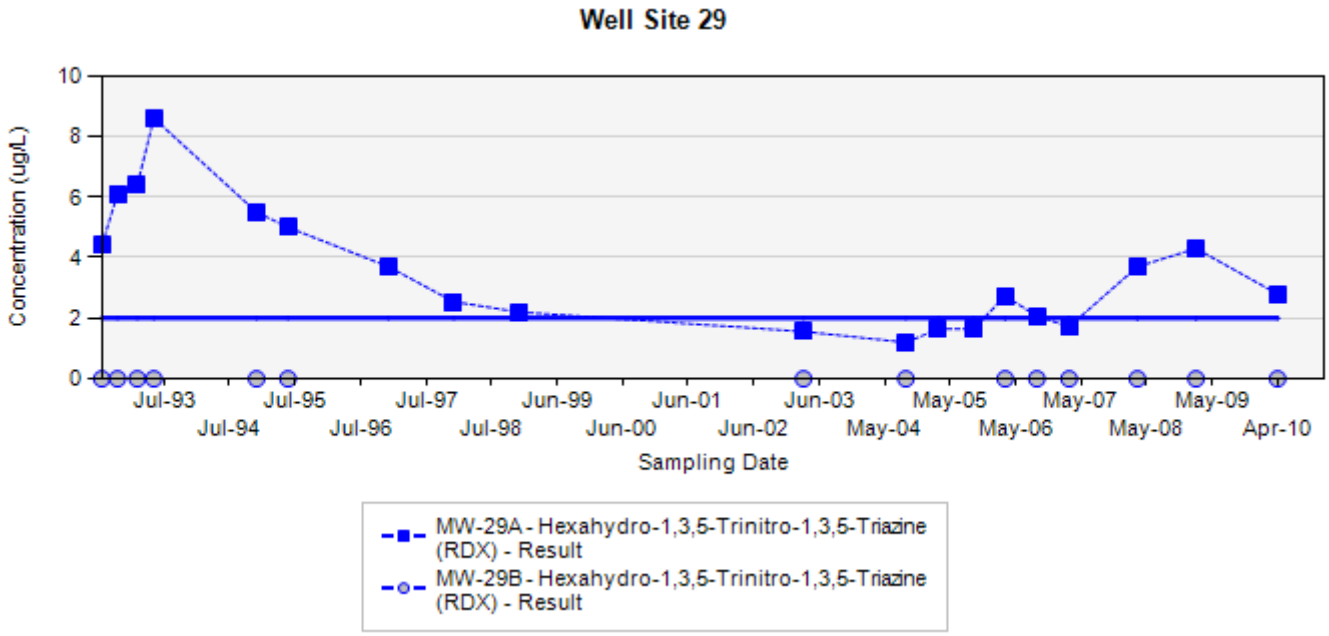


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Load Line 2 and Load Line 3 Monitoring Wells

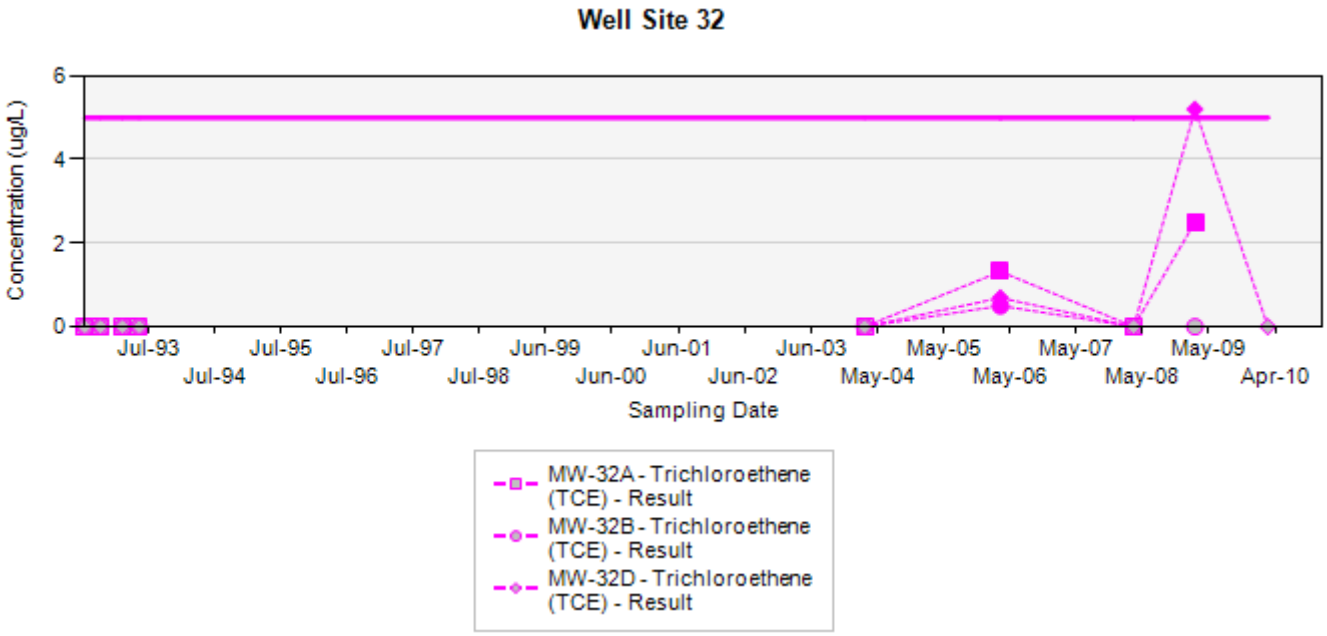


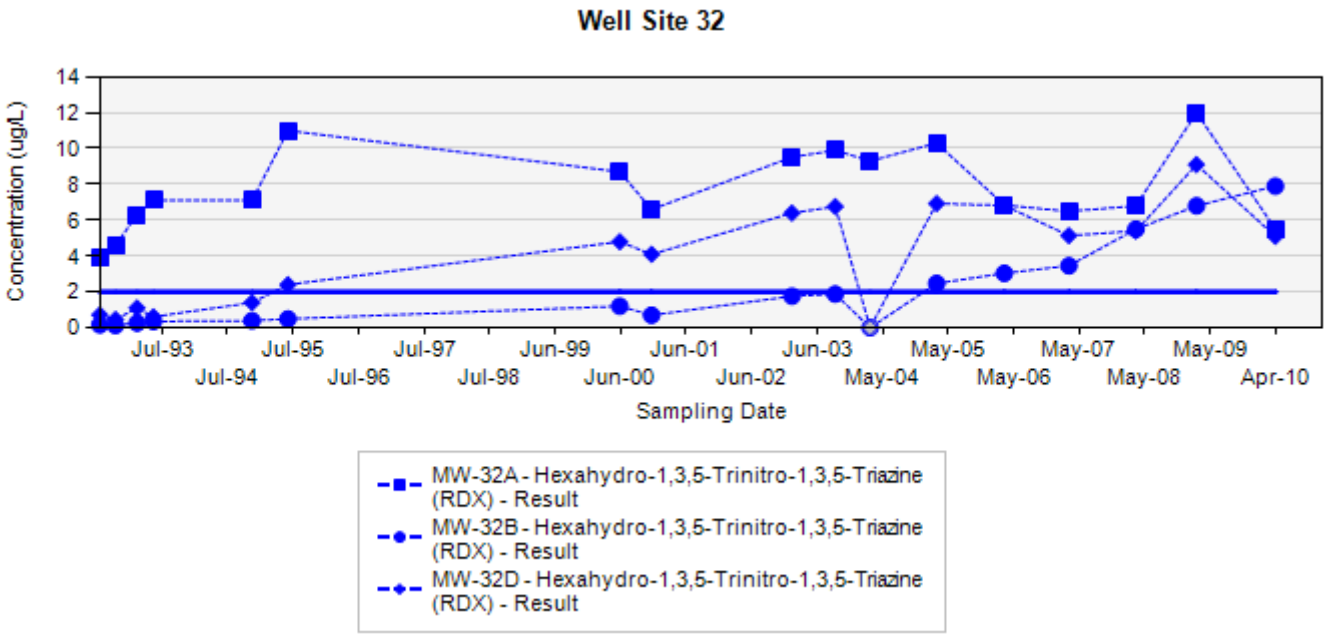
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Load Line 2 and Load Line 3 Monitoring Wells



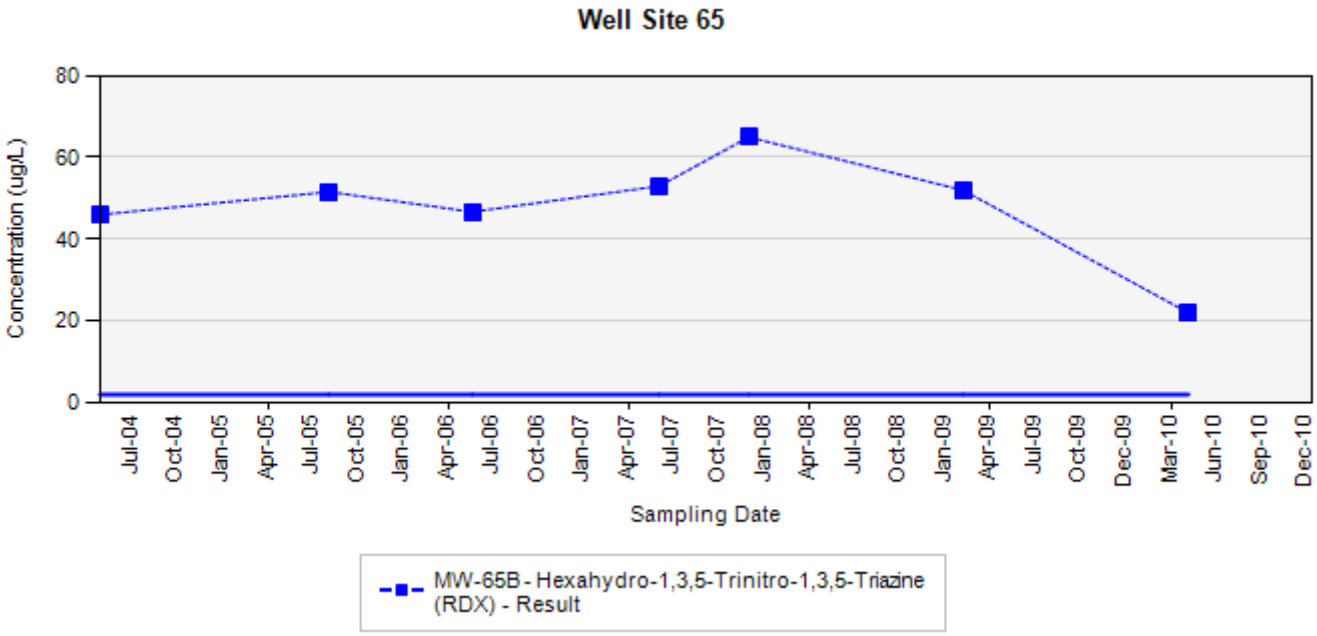


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Load Line 2 and Load Line 3 Monitoring Wells

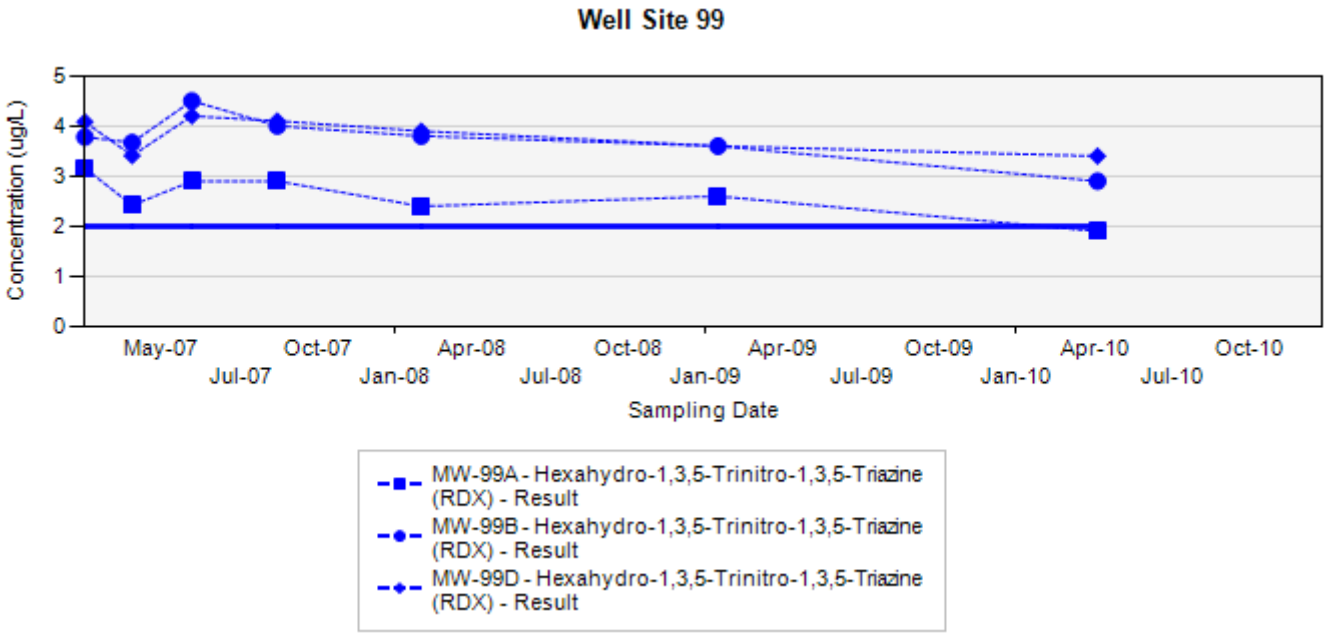


Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Load Line 2 and Load Line 3 Monitoring Wells

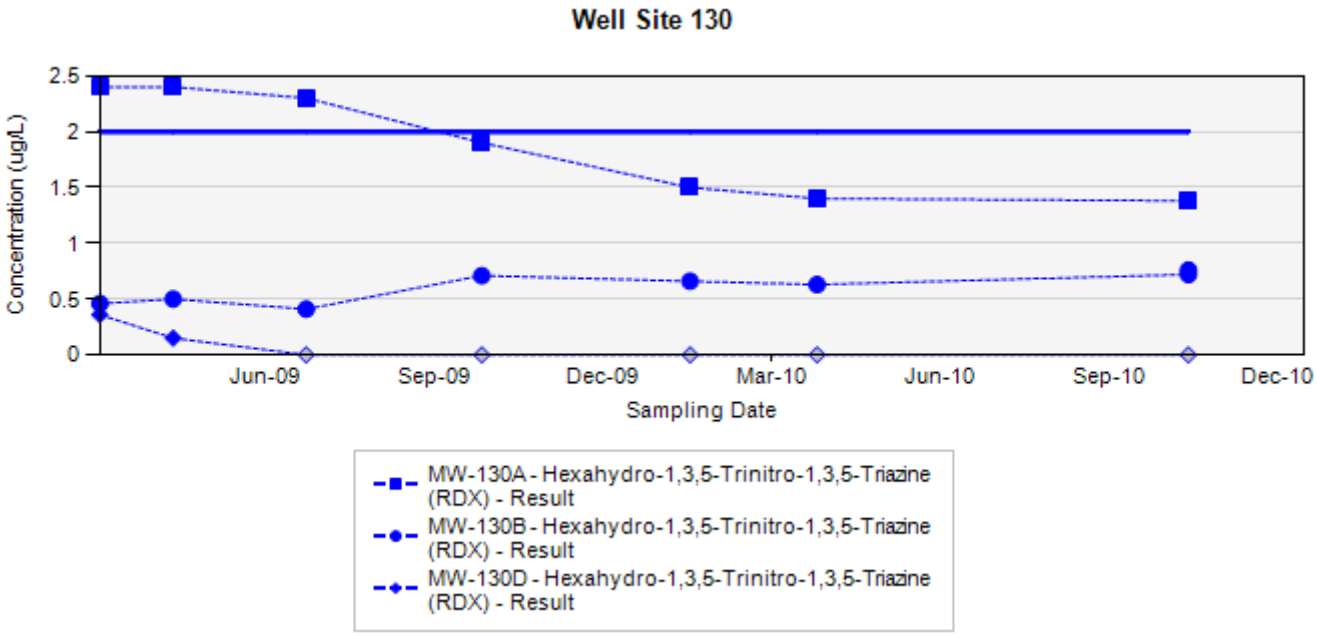


Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Load Line 2 and Load Line 3 Monitoring Wells



Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

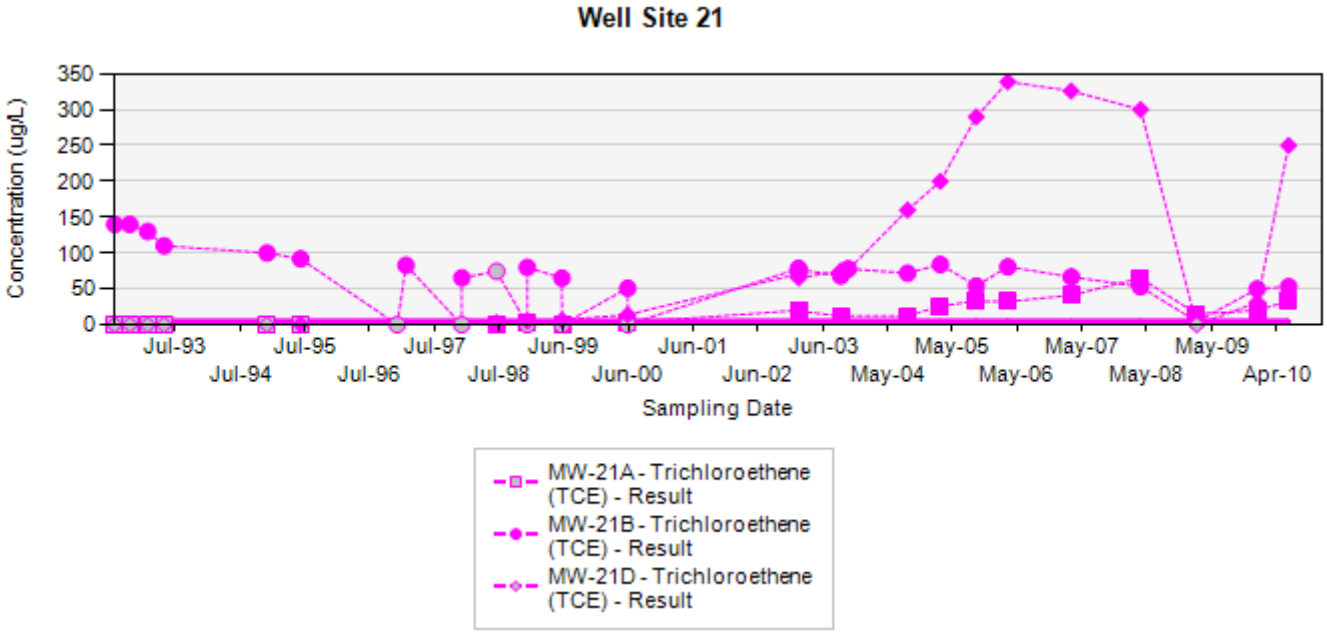
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

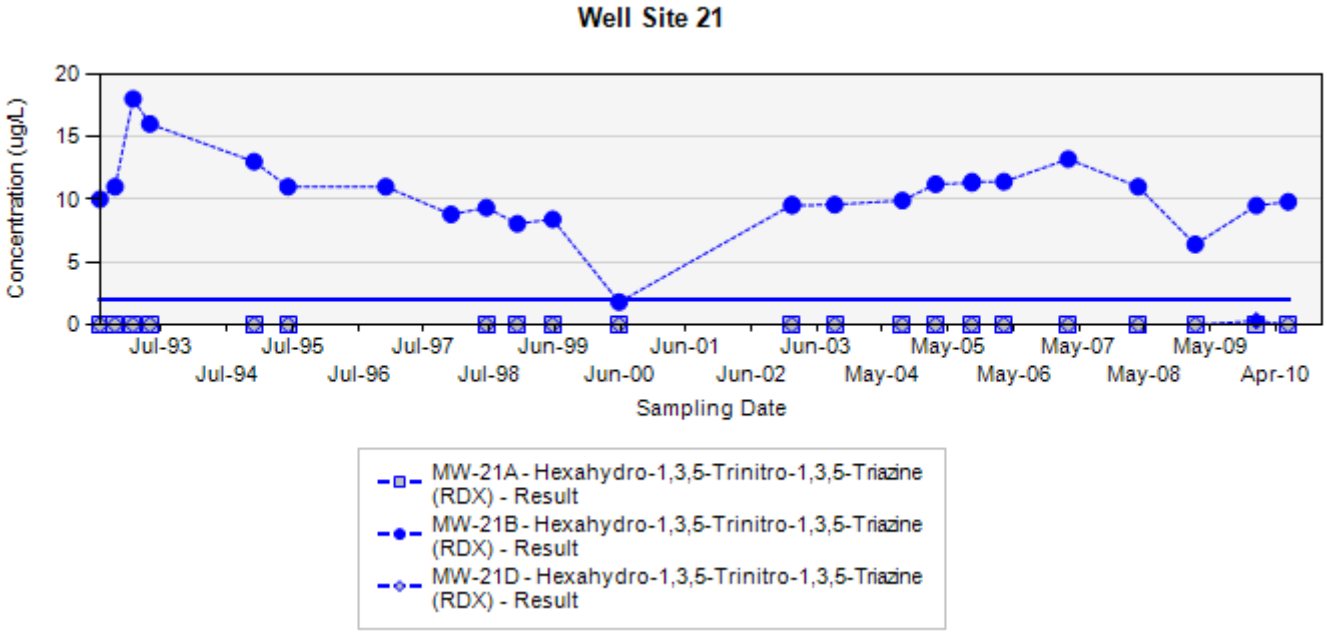
ug/L: micrograms per liter
Silver markers indicate non-detected results

APPENDIX A.4

LOAD LINE 1 INTERIOR PLUME MONITORING WELL CONCENTRATION TREND CHARTS

Concentration Trend Charts Load Line 1 Monitoring Wells



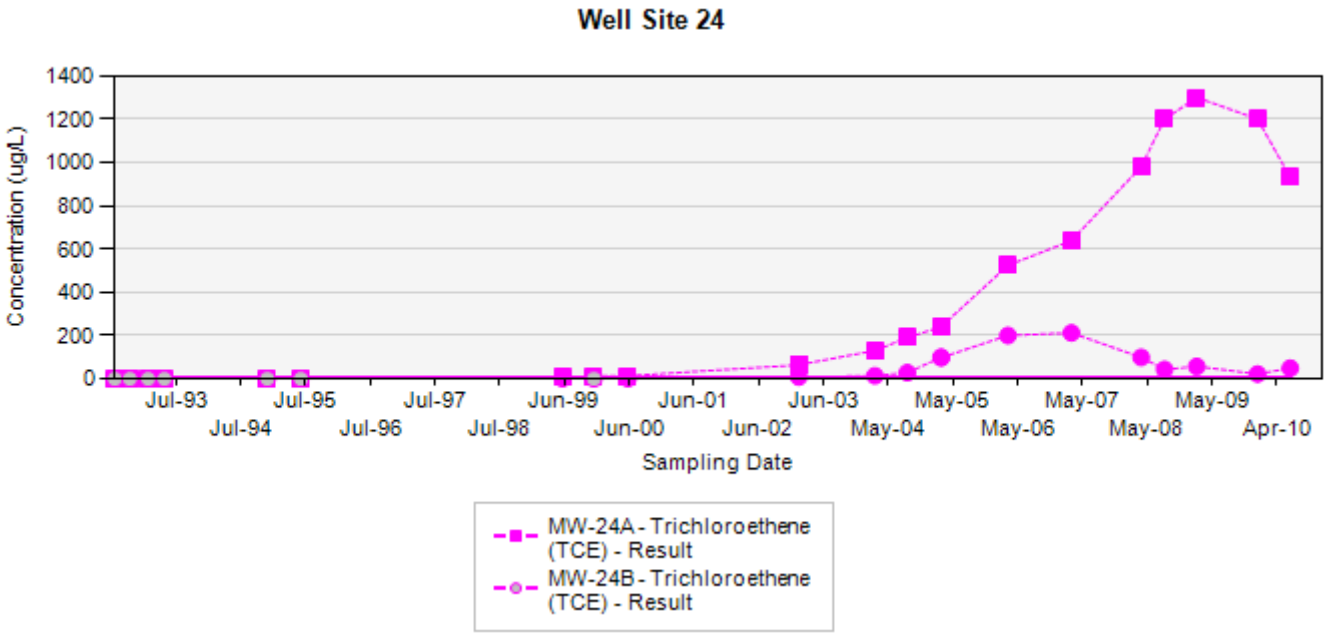


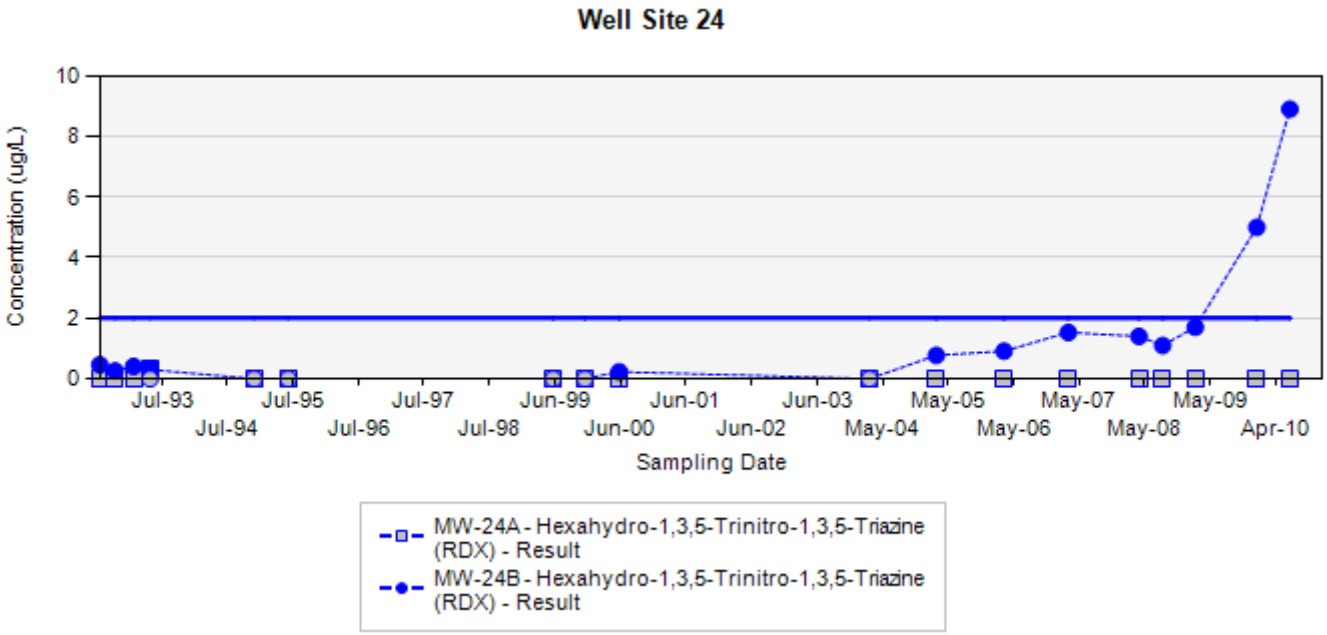
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 1 Monitoring Wells



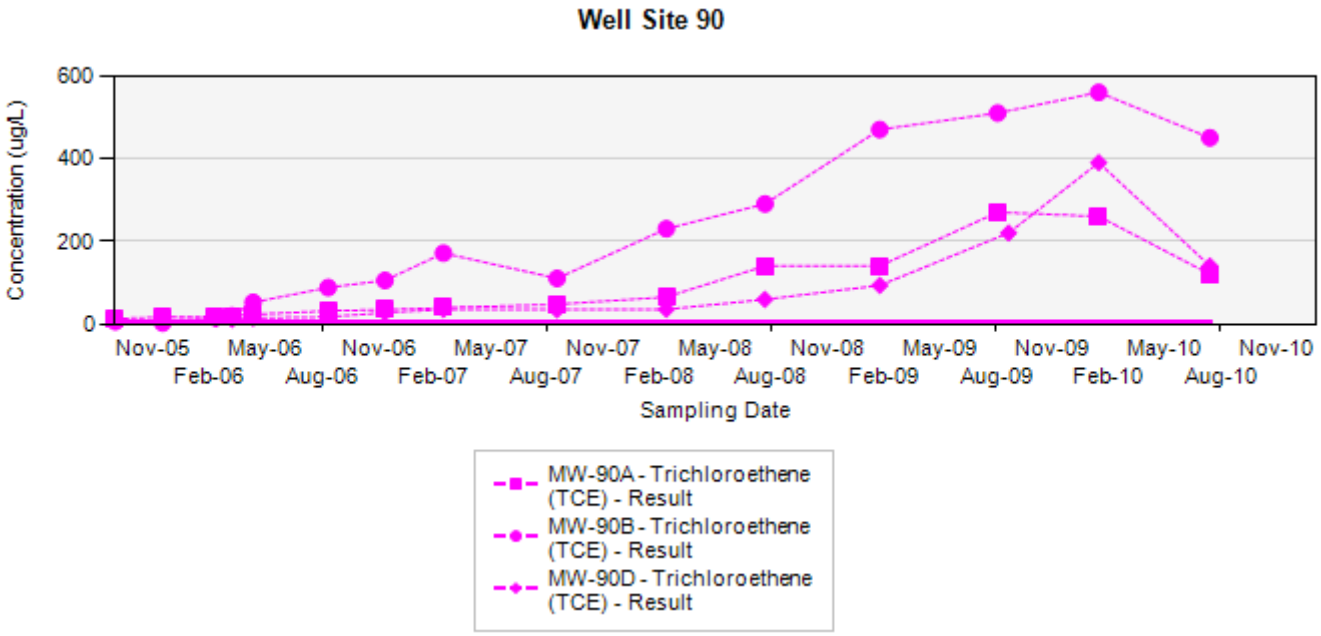


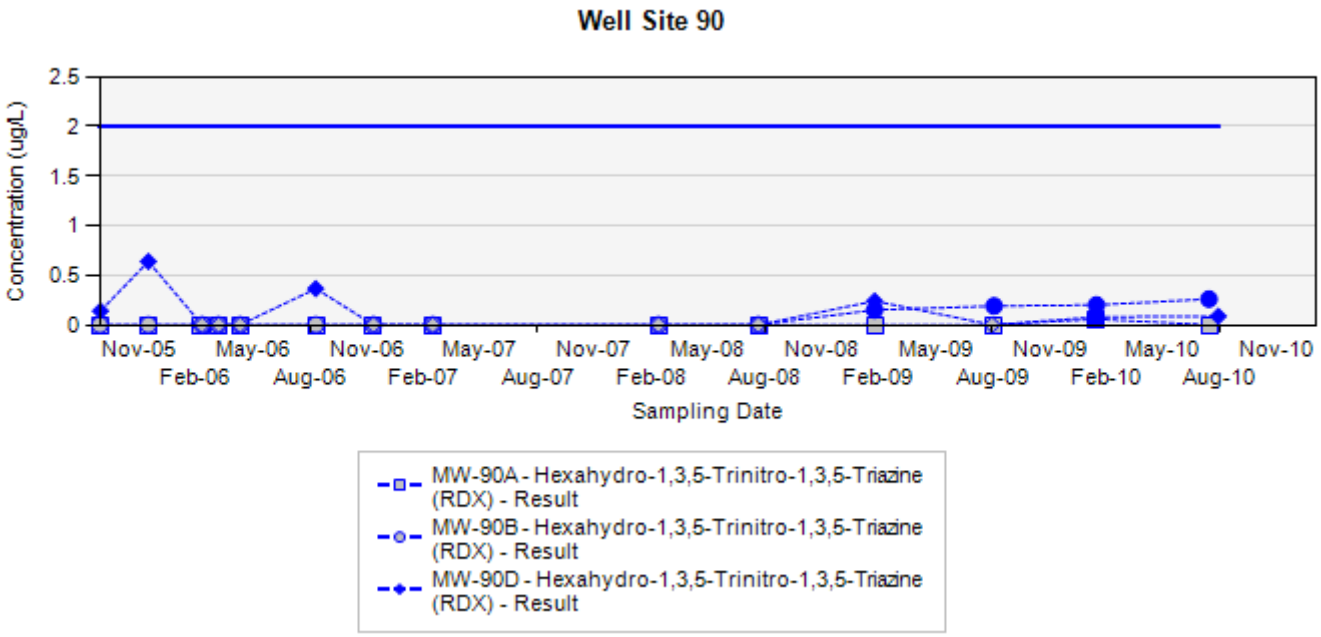
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 1 Monitoring Wells



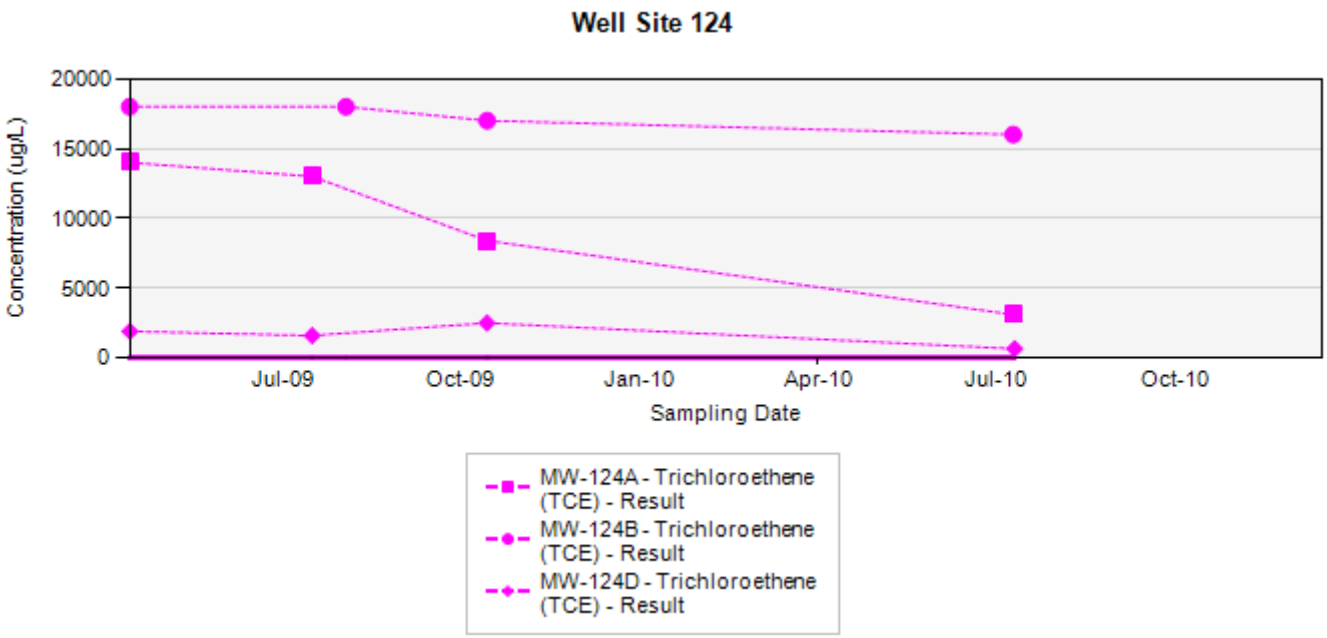


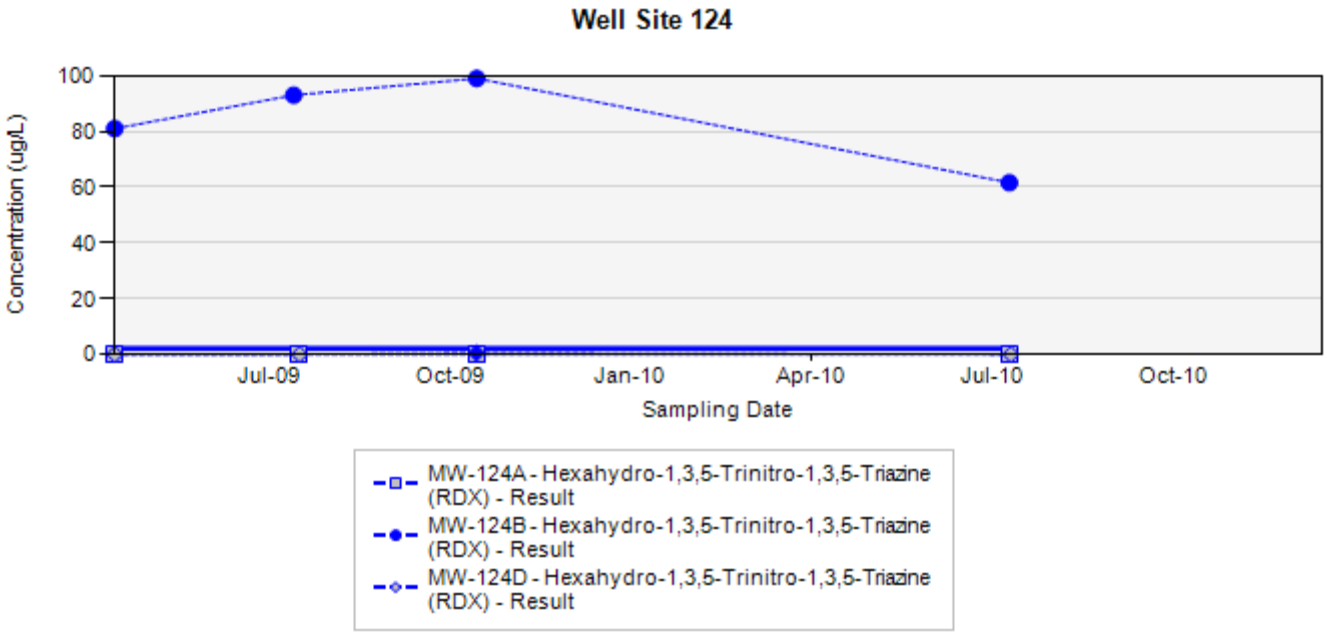
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 1 Monitoring Wells



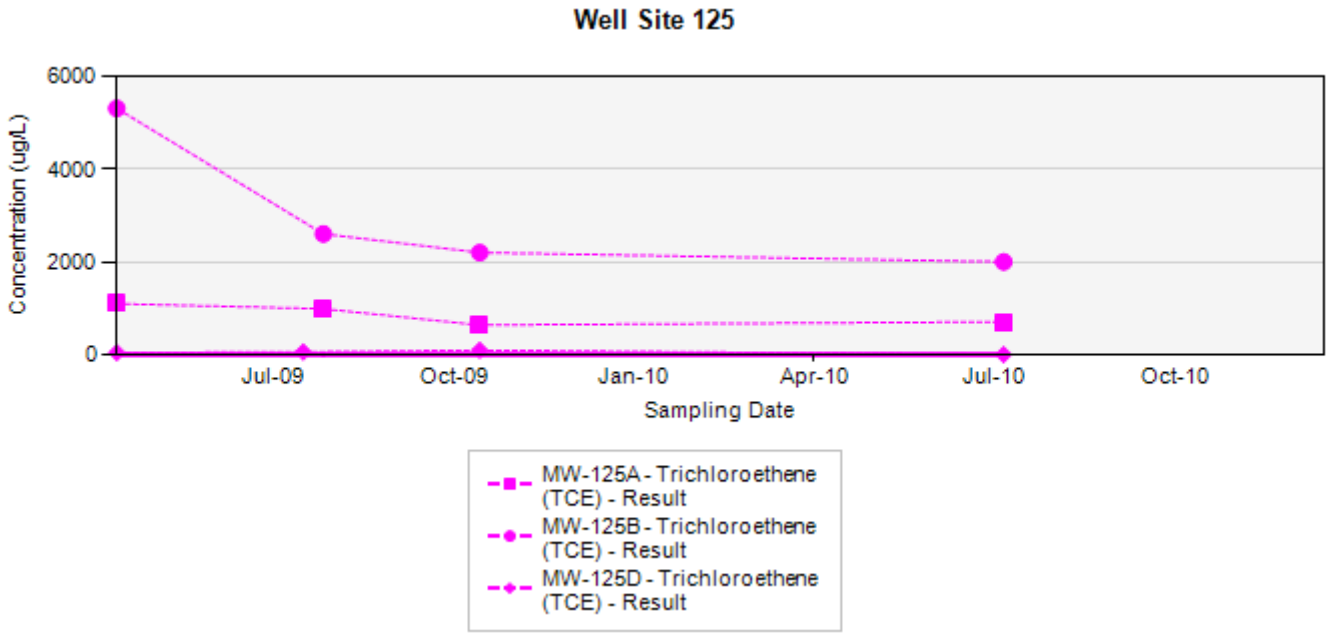


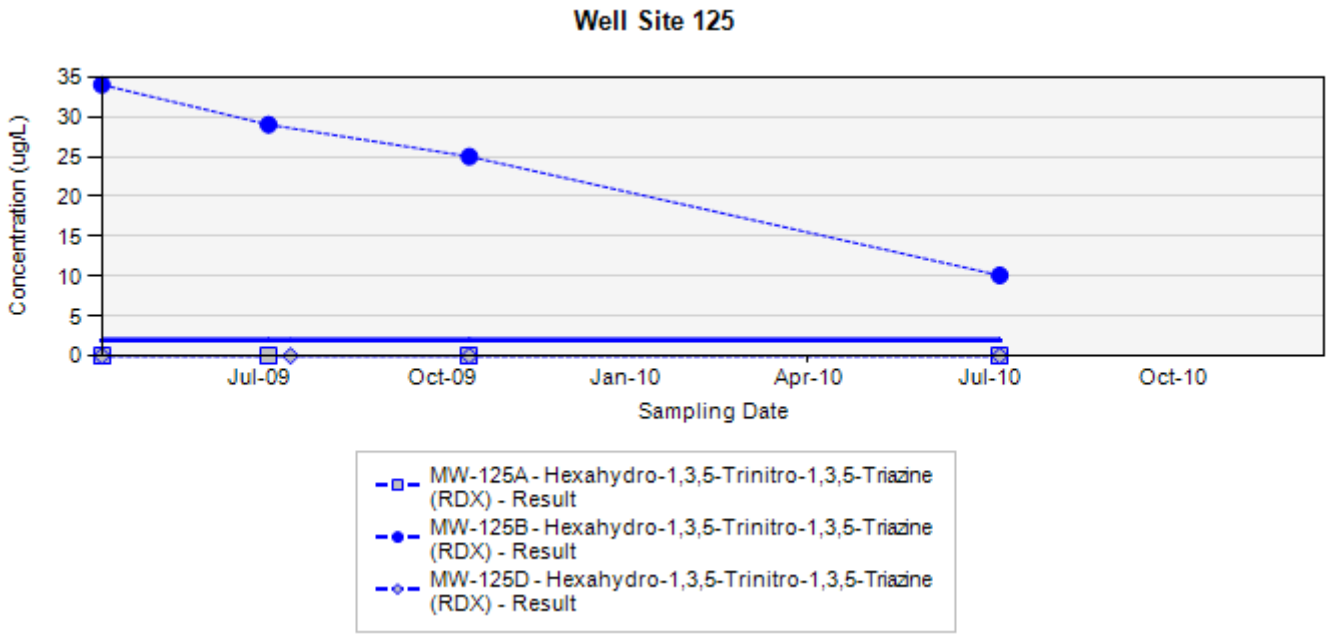
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 1 Monitoring Wells



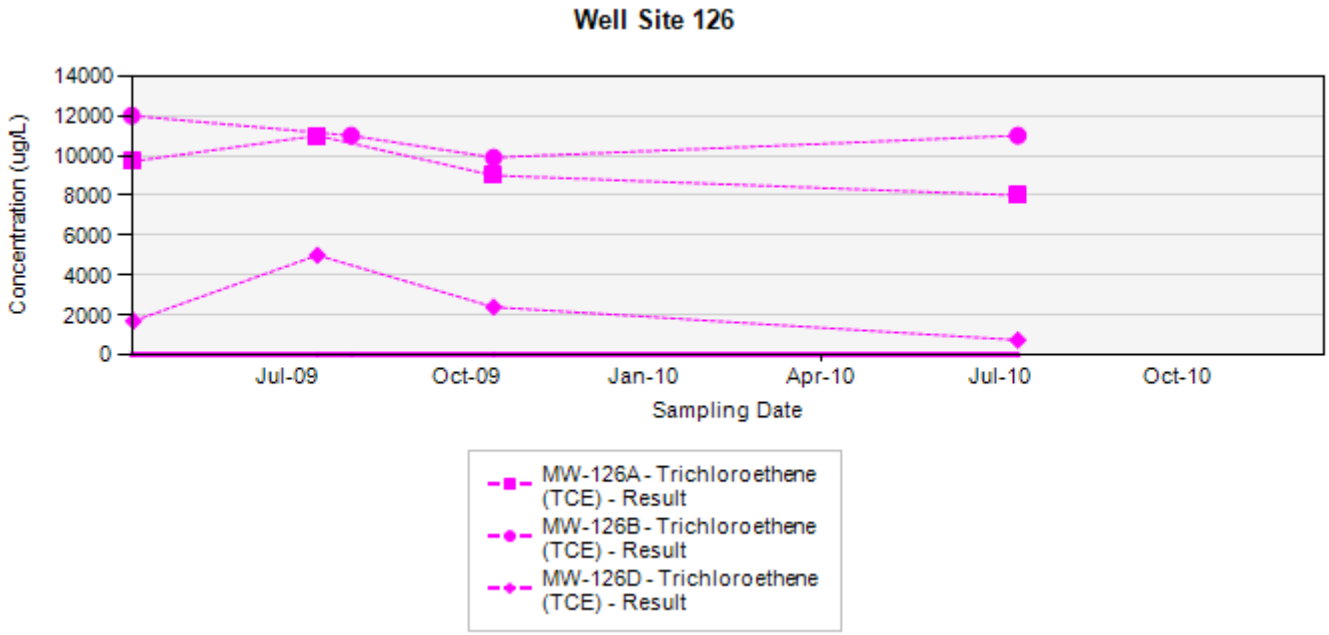


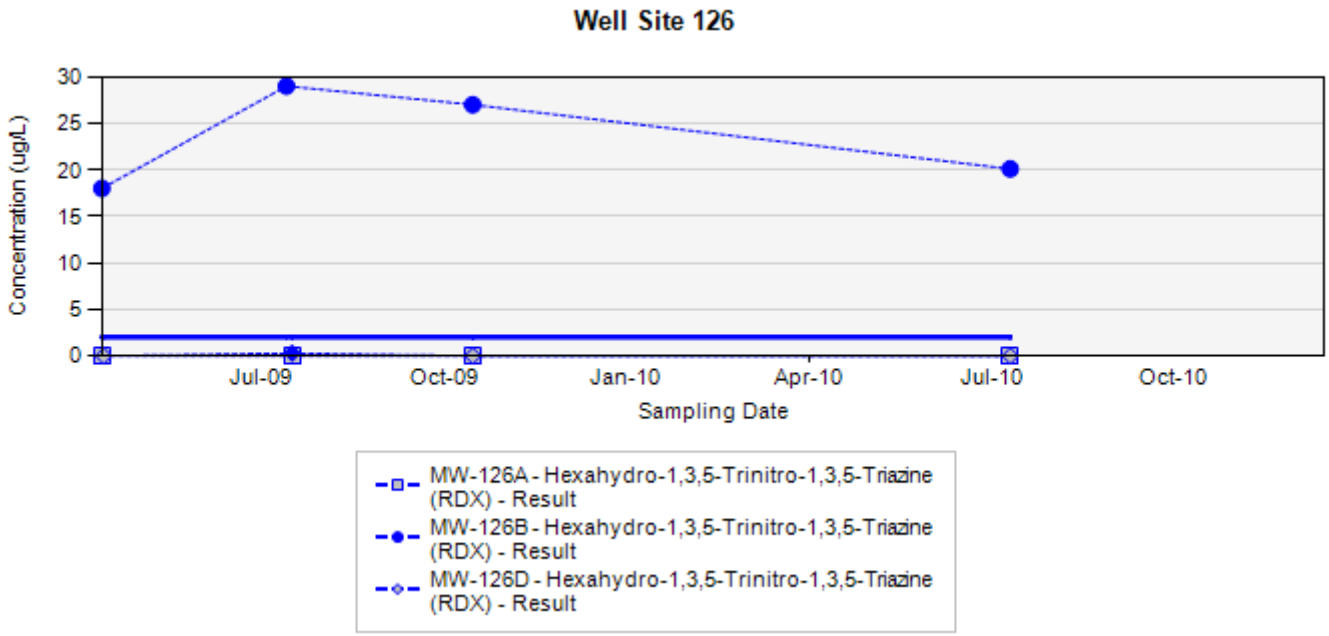
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 1 Monitoring Wells



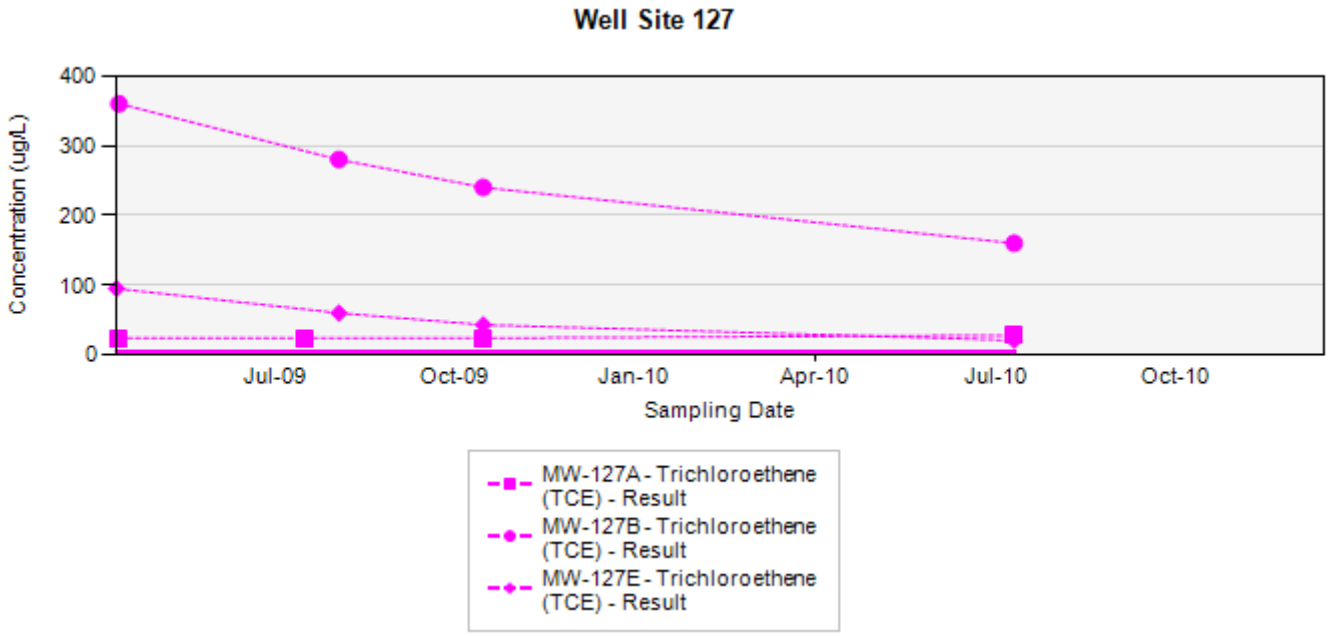


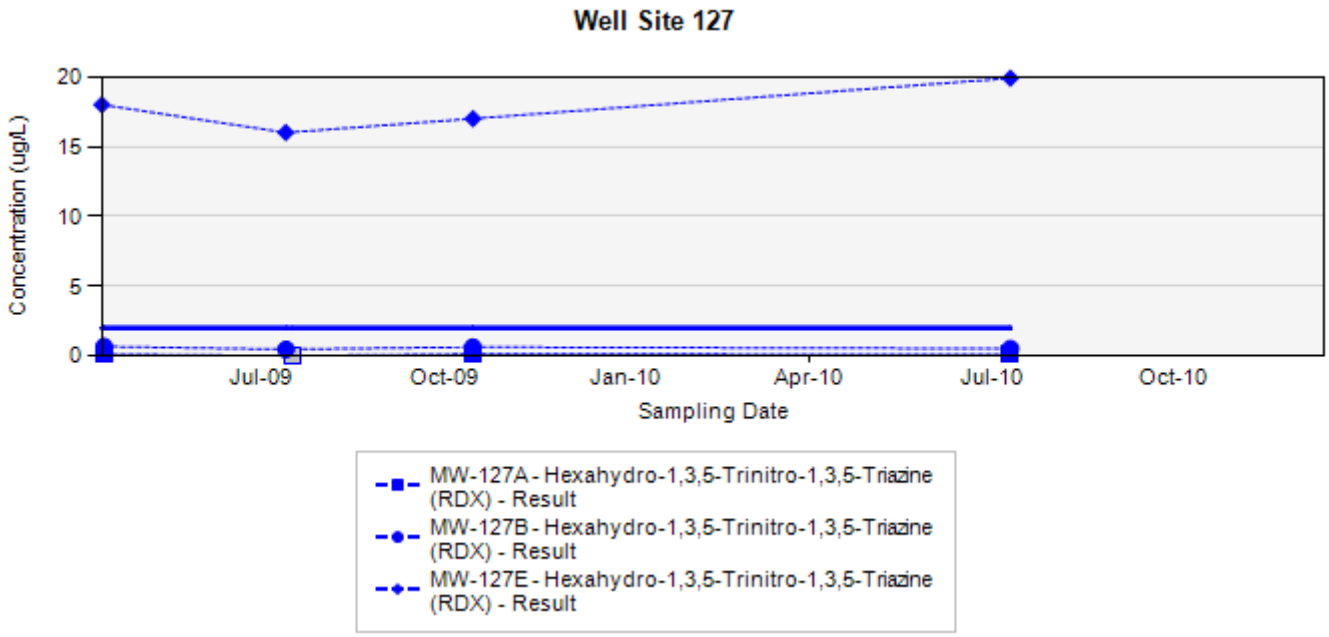
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 1 Monitoring Wells





Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

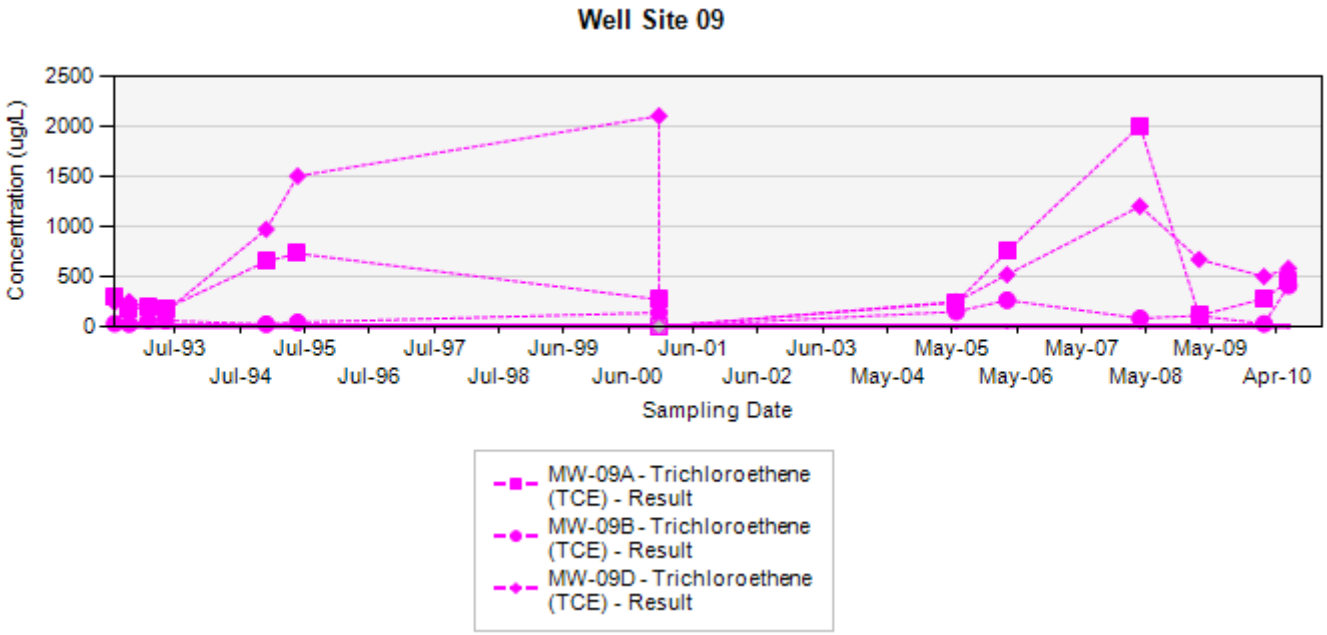
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

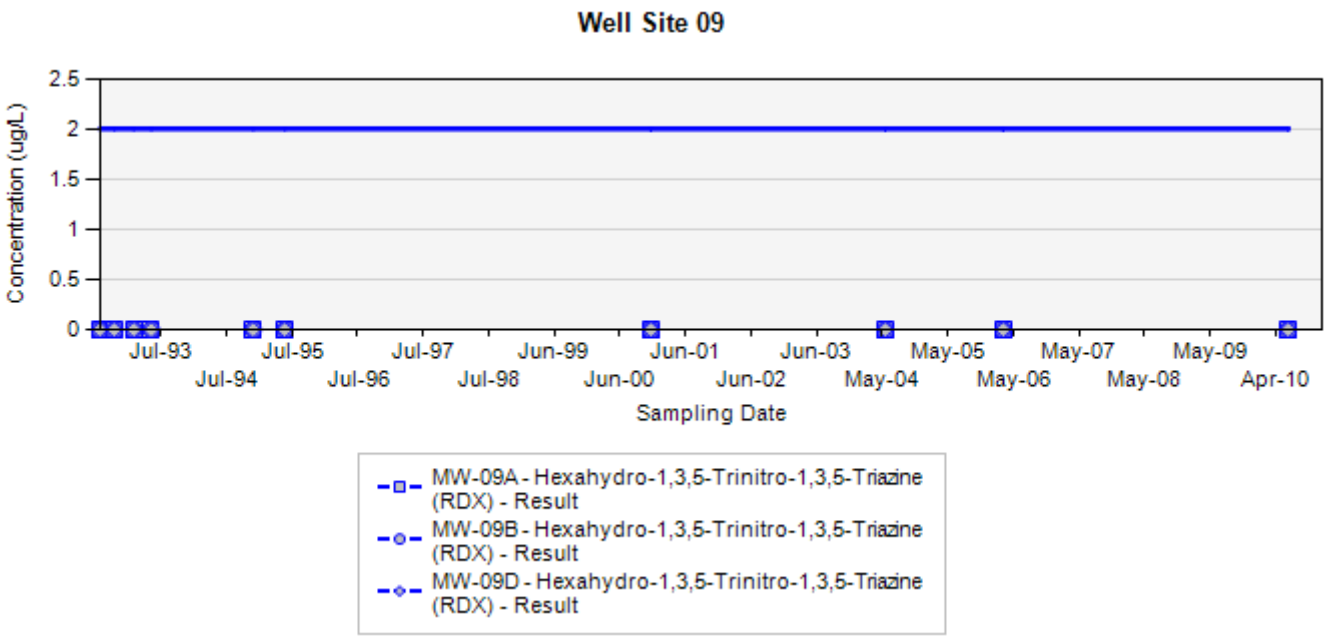
ug/L: micrograms per liter
Silver markers indicate non-detected results

APPENDIX A.5

LOAD LINE 4, LANDFILL AND ATLAS MISSILE AREA INTERIOR PLUME MONITORING WELL CONCENTRATION TREND CHARTS

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



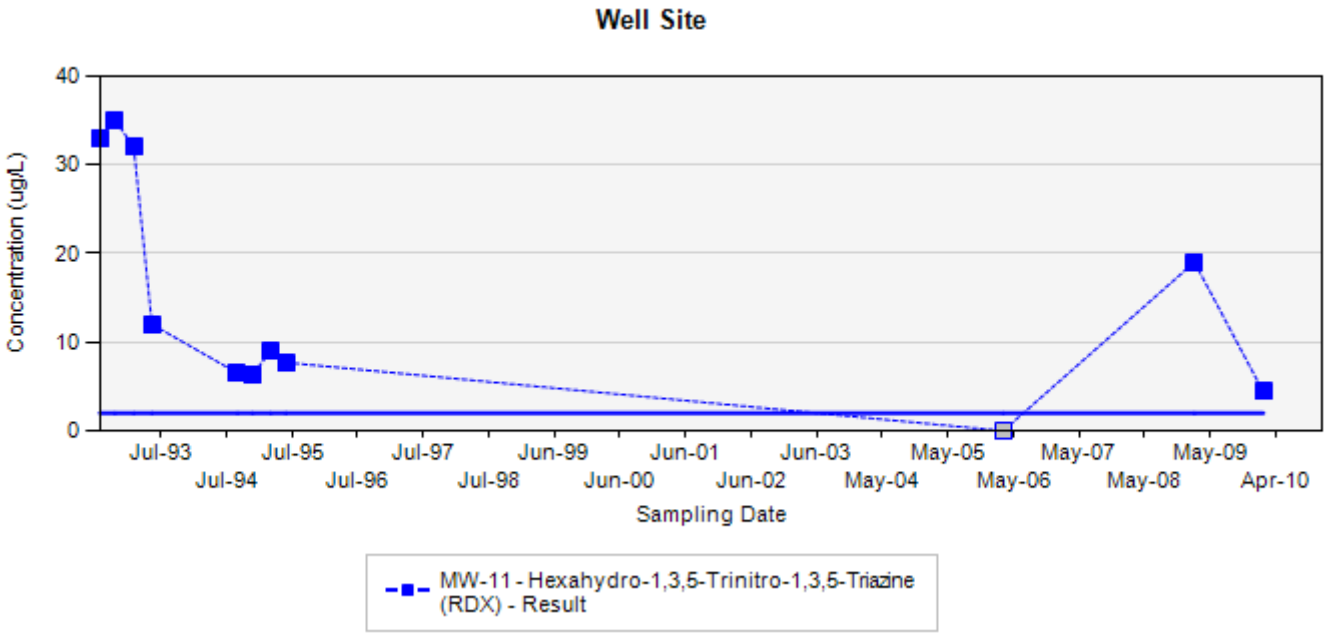


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells

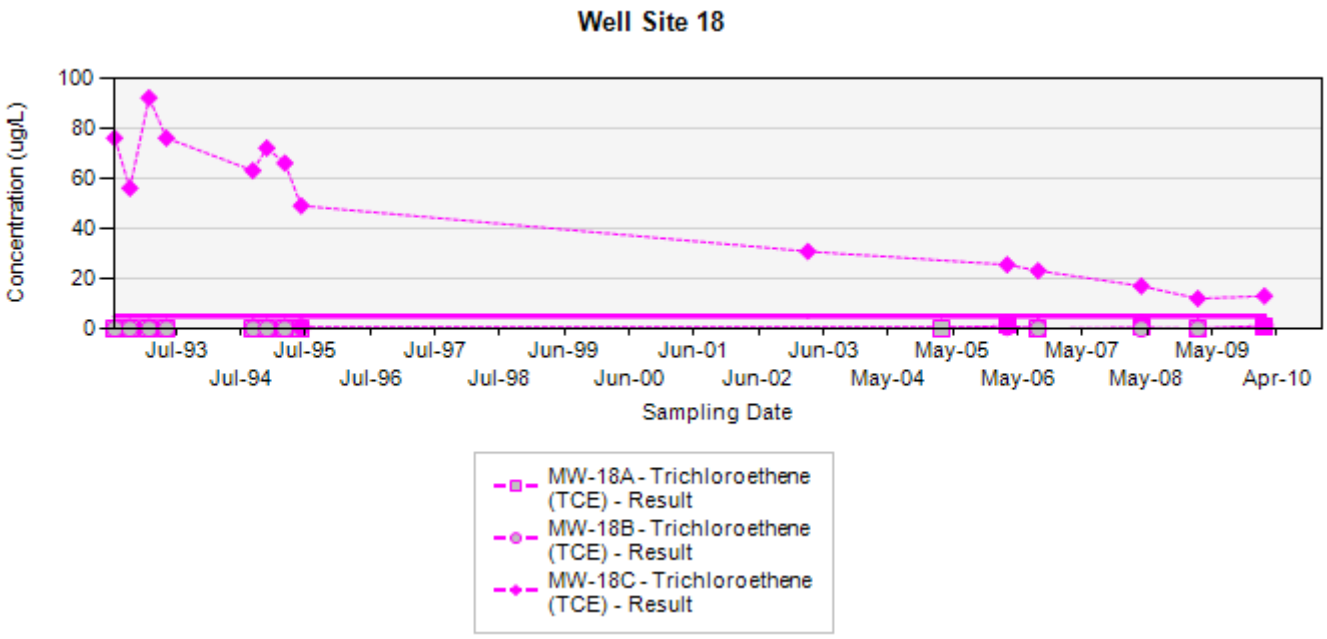


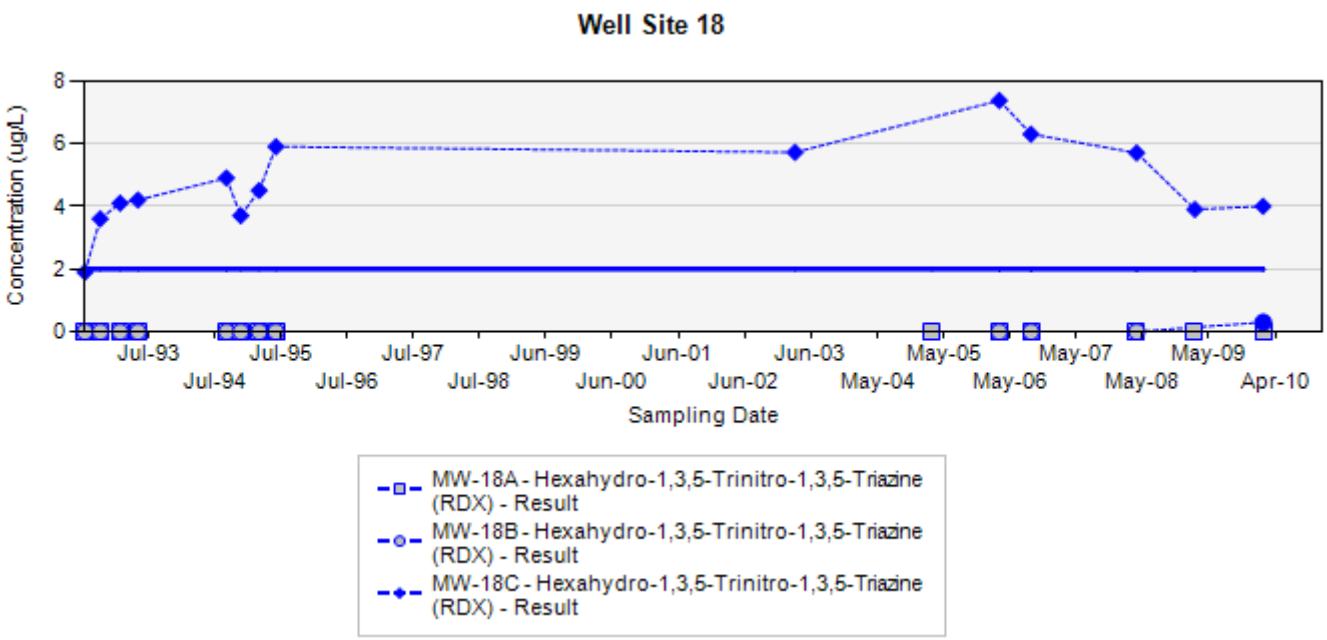
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



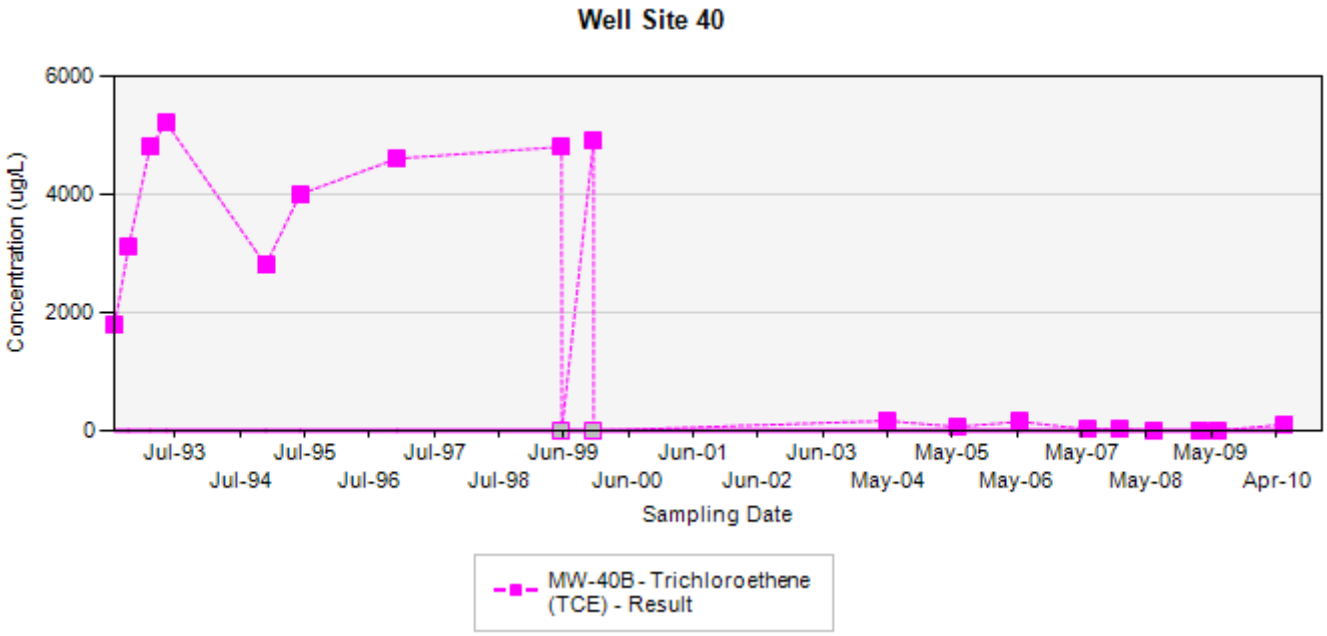


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells

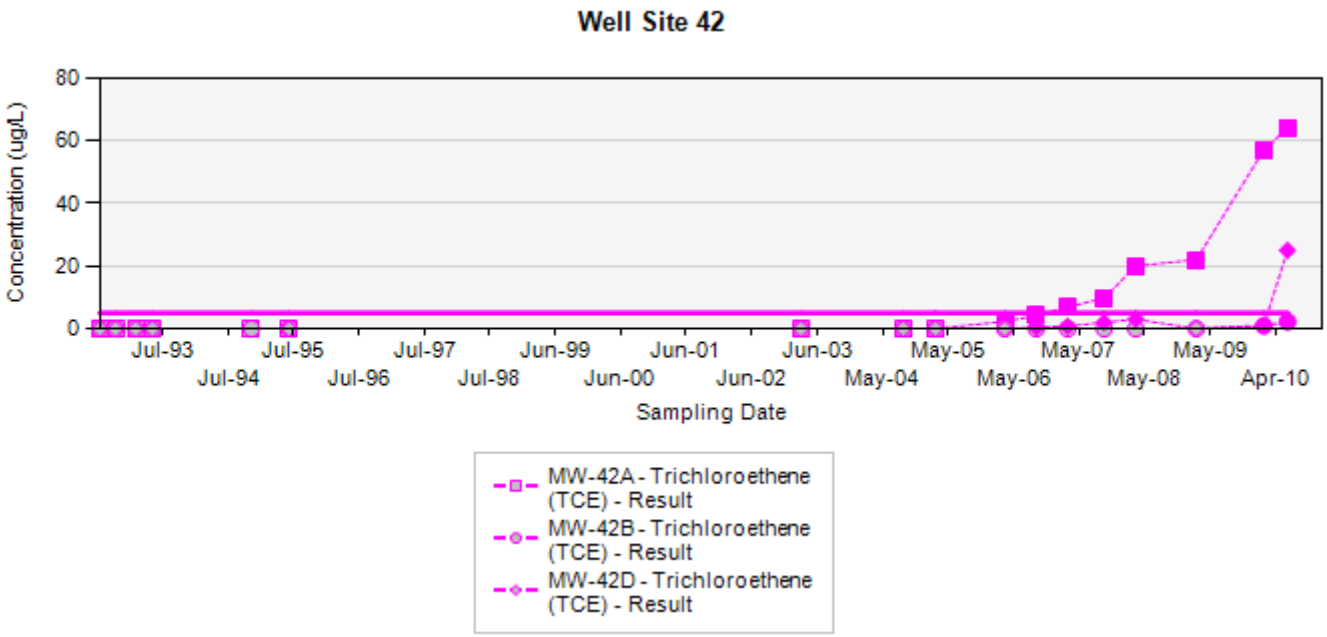


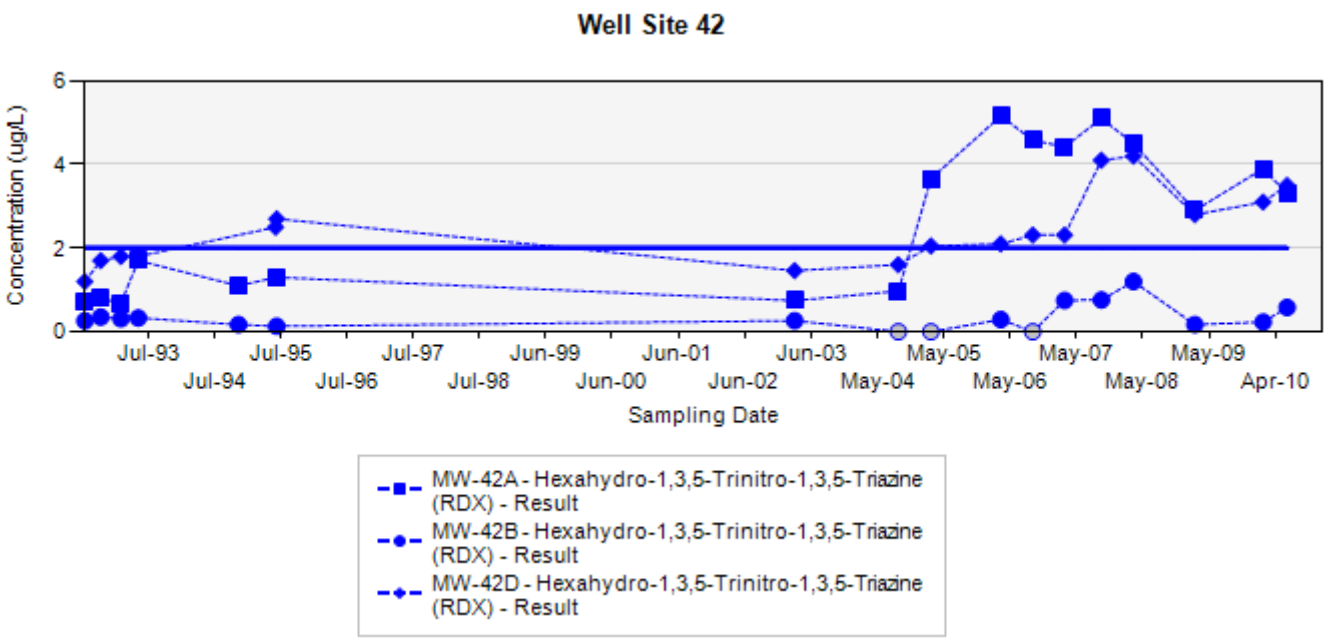
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



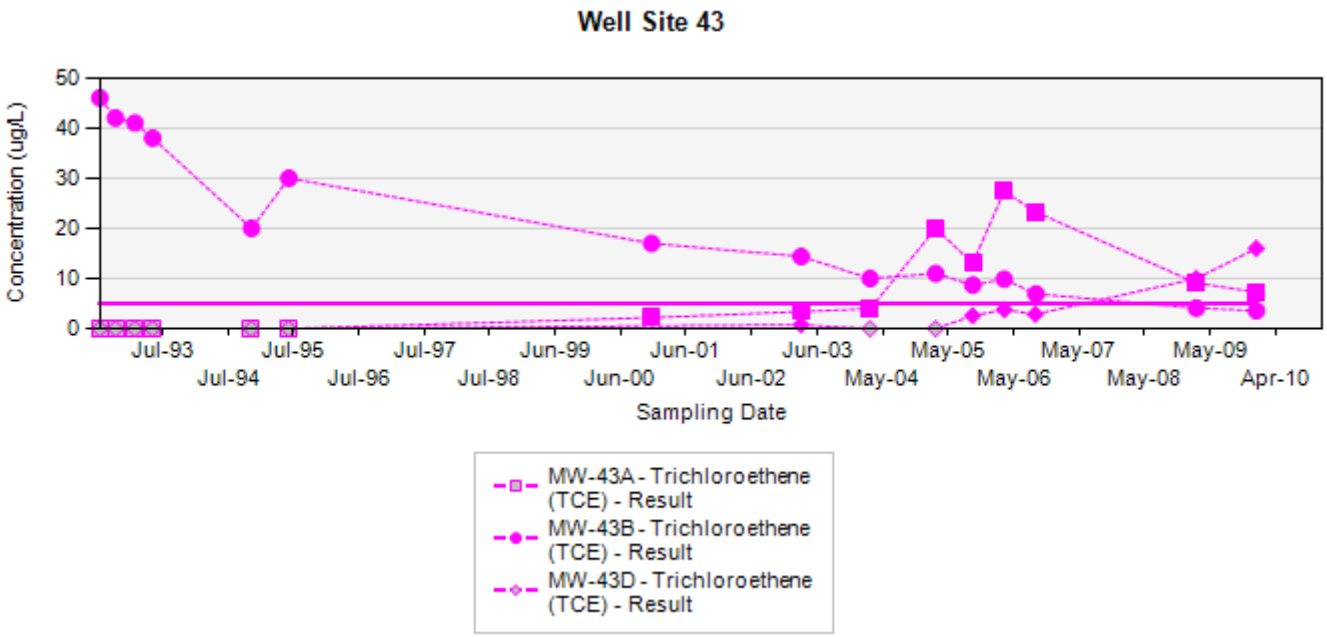


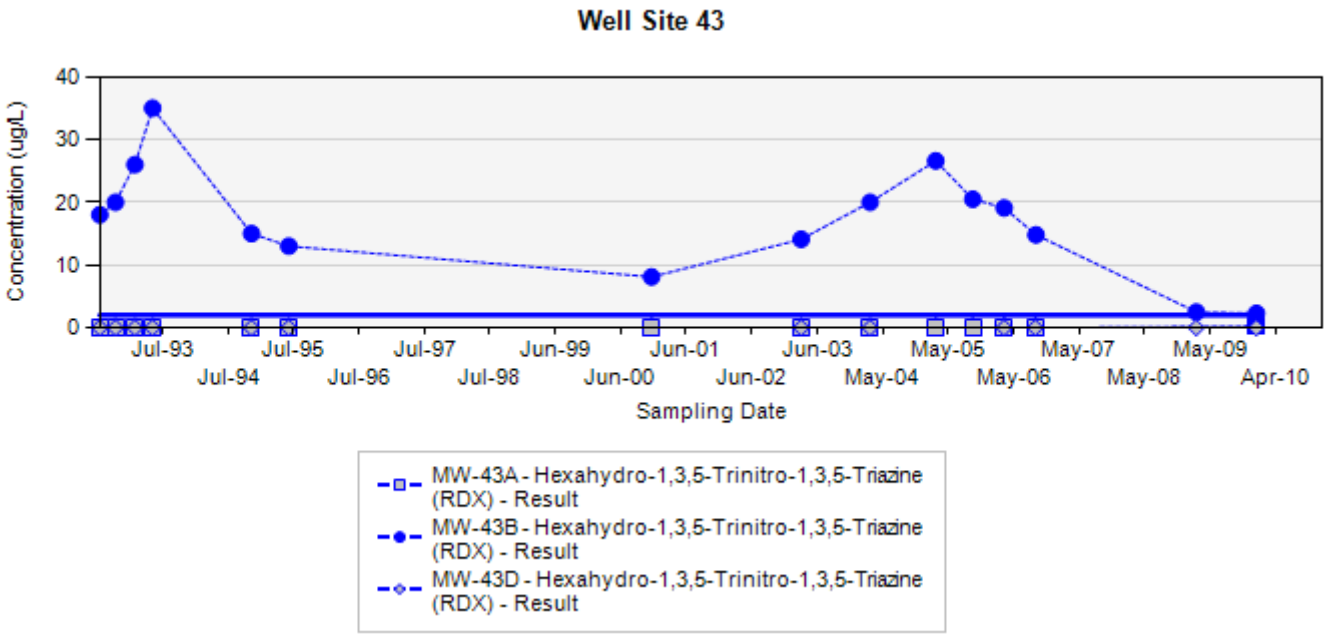
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



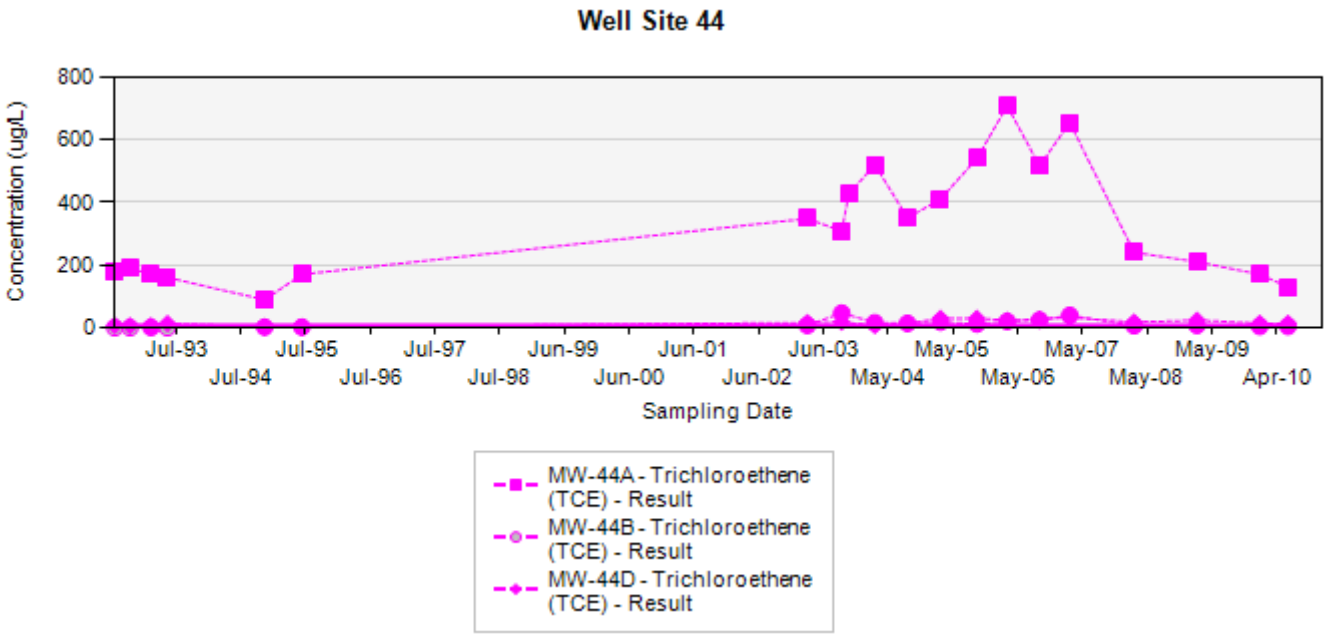


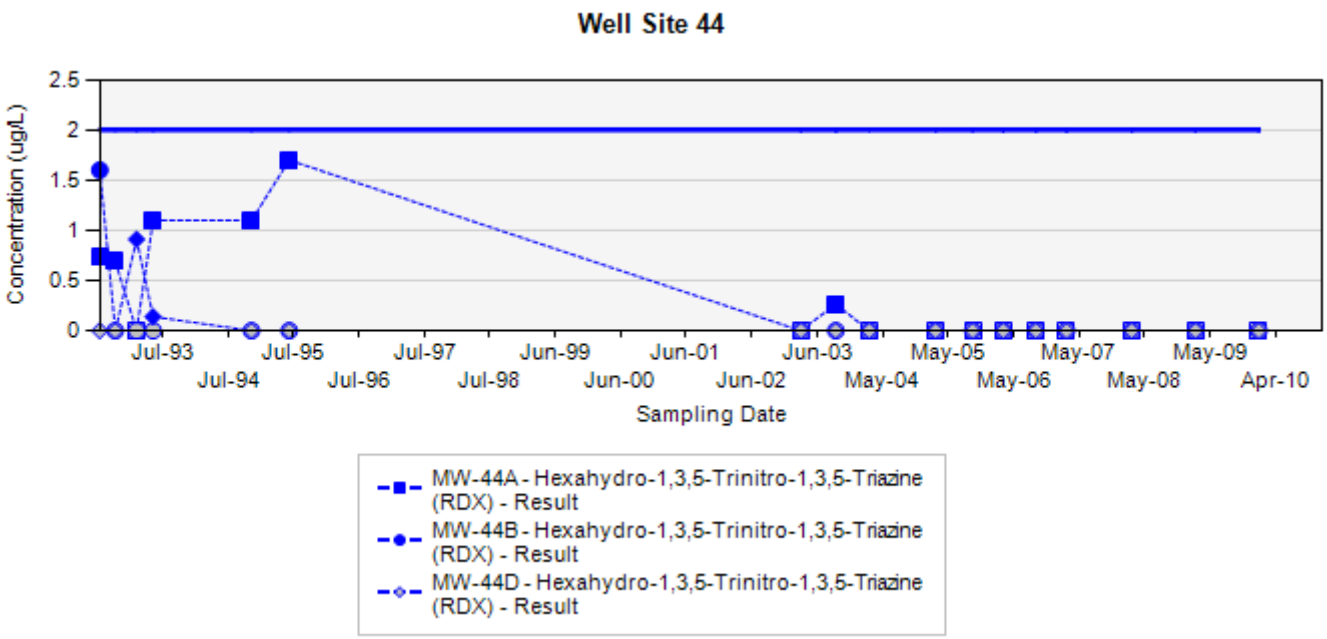
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



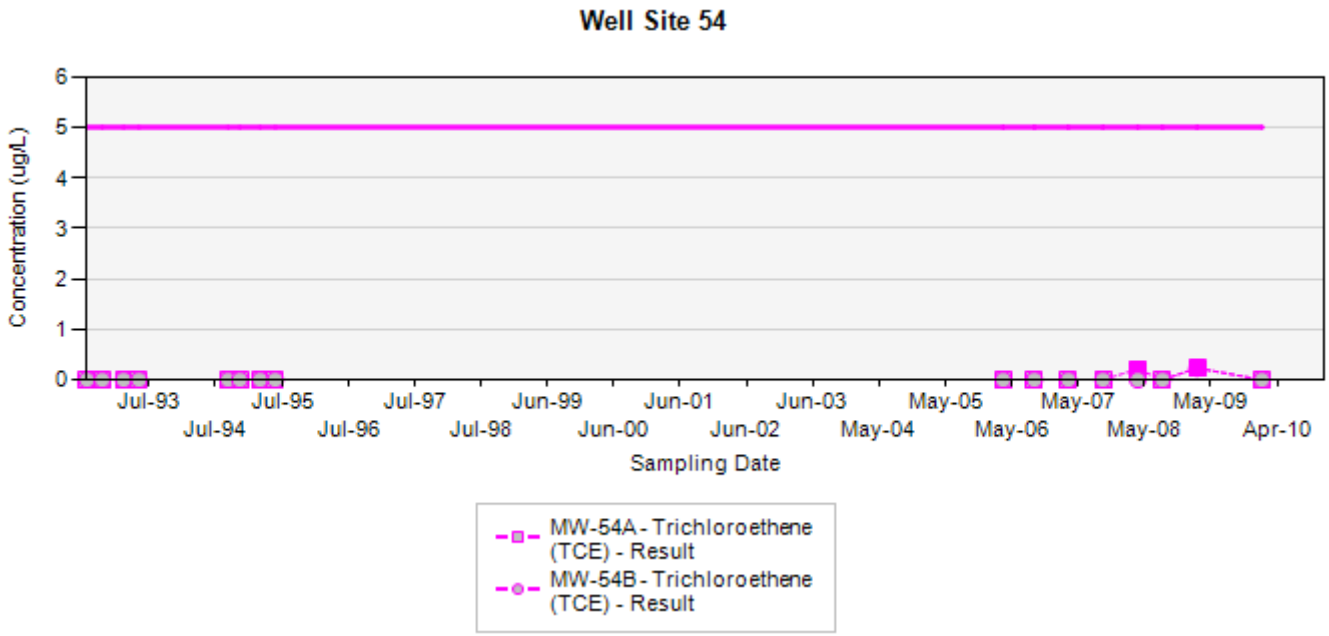


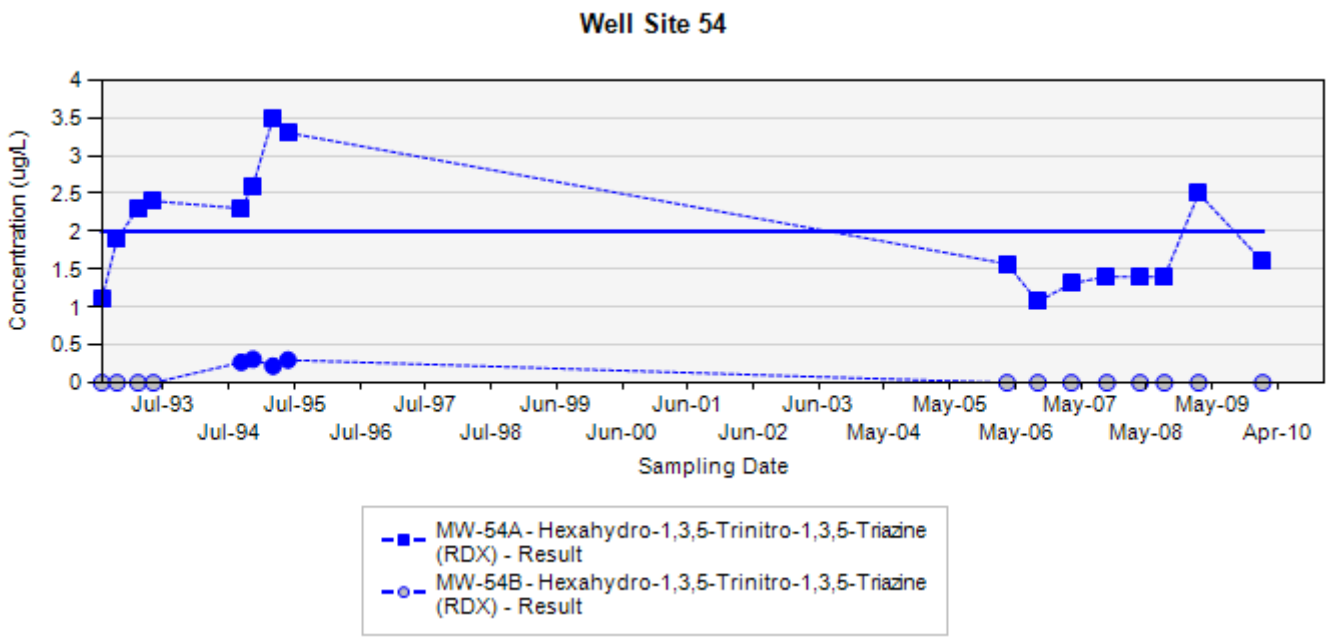
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



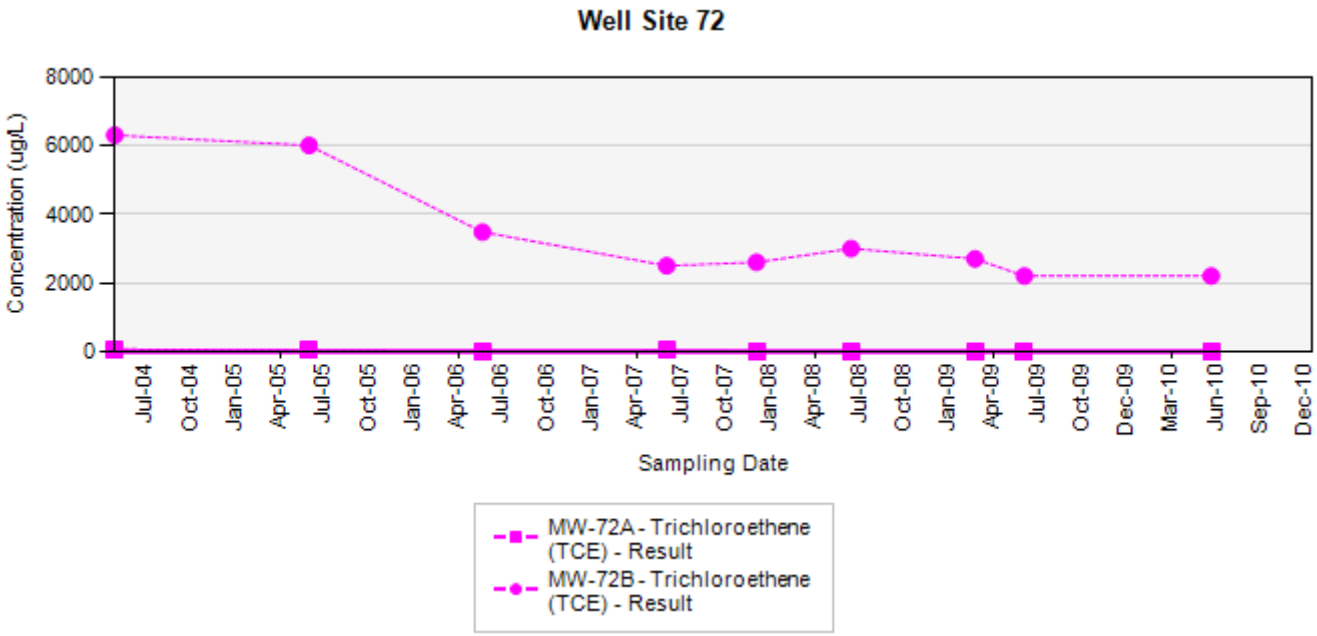


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells

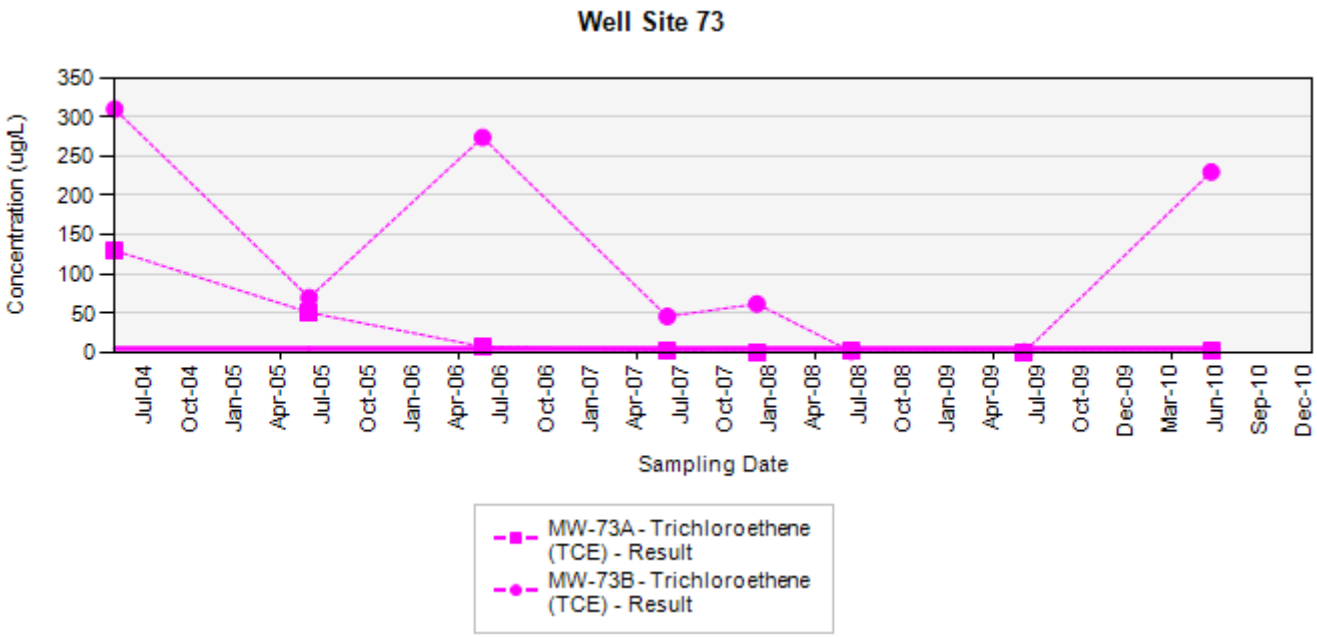


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells

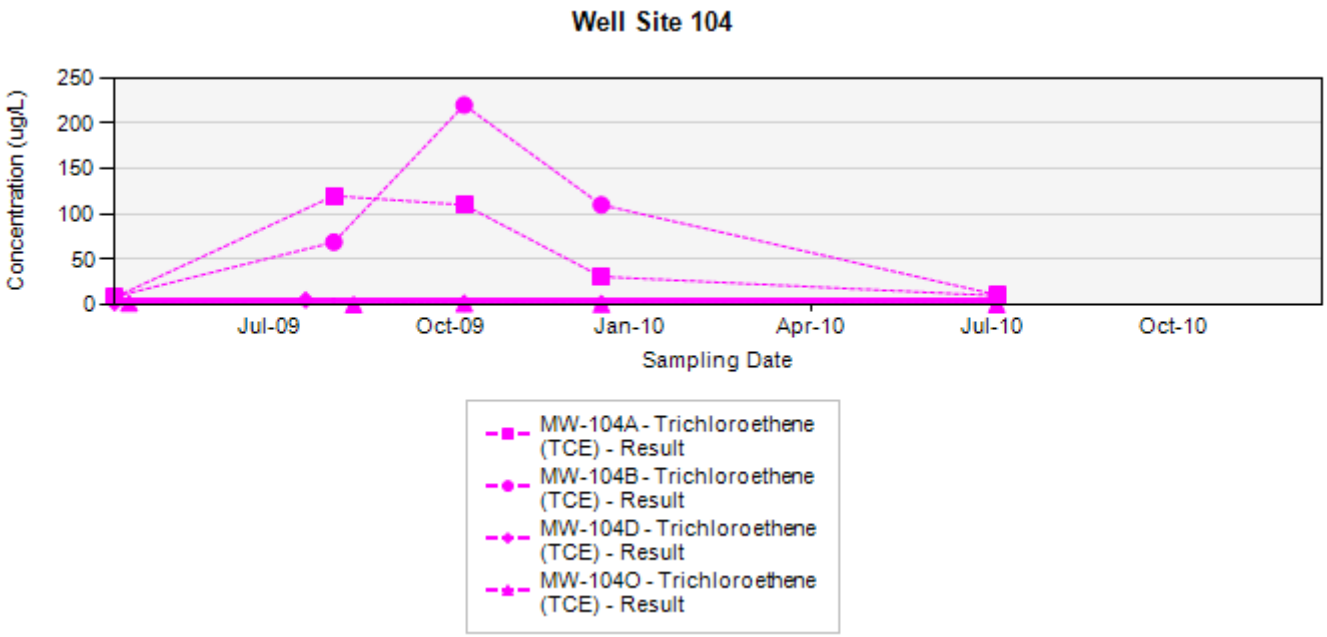


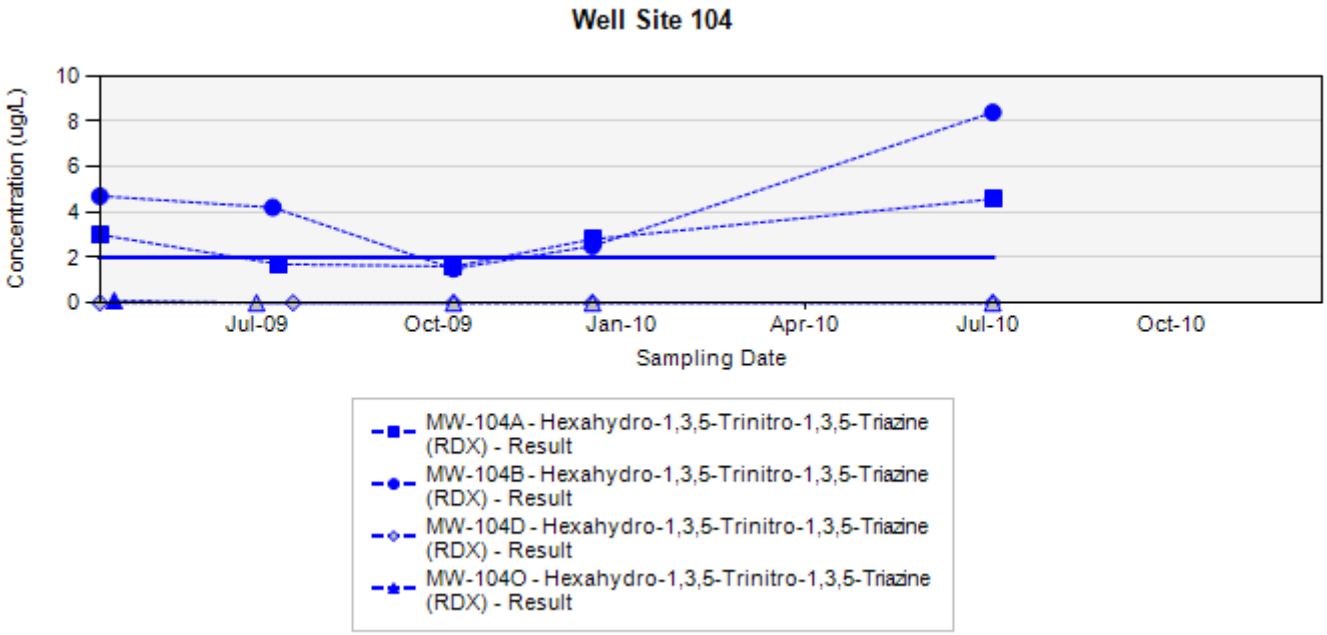
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



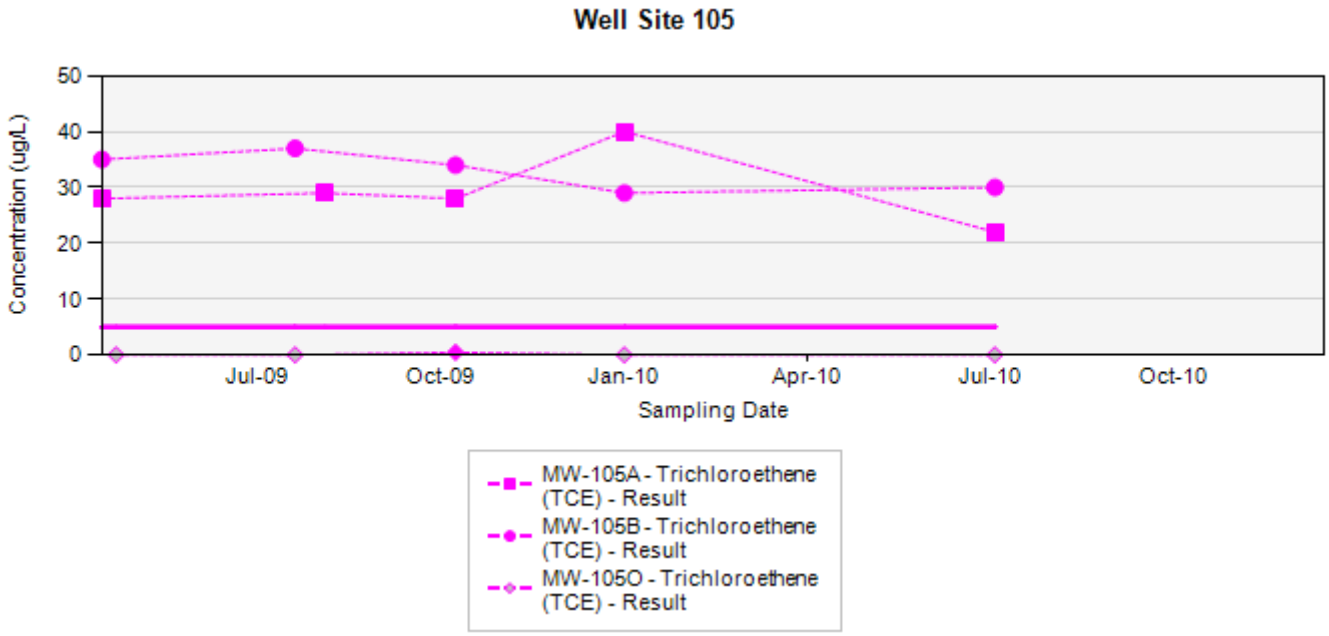


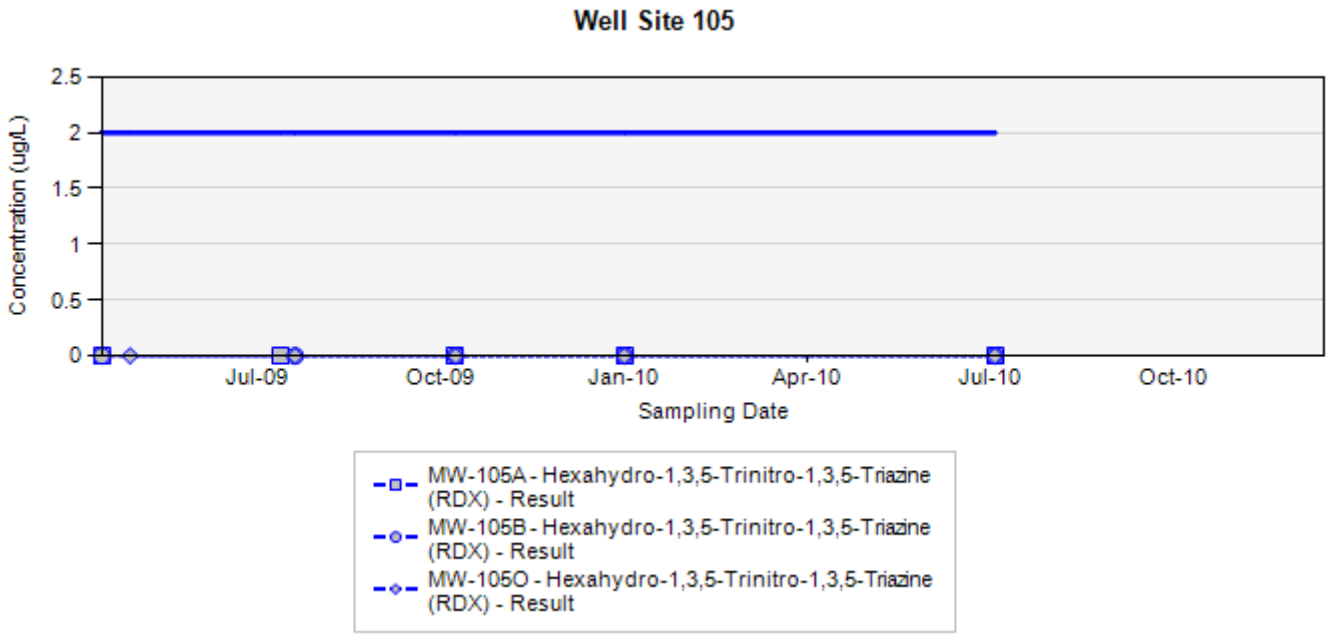
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



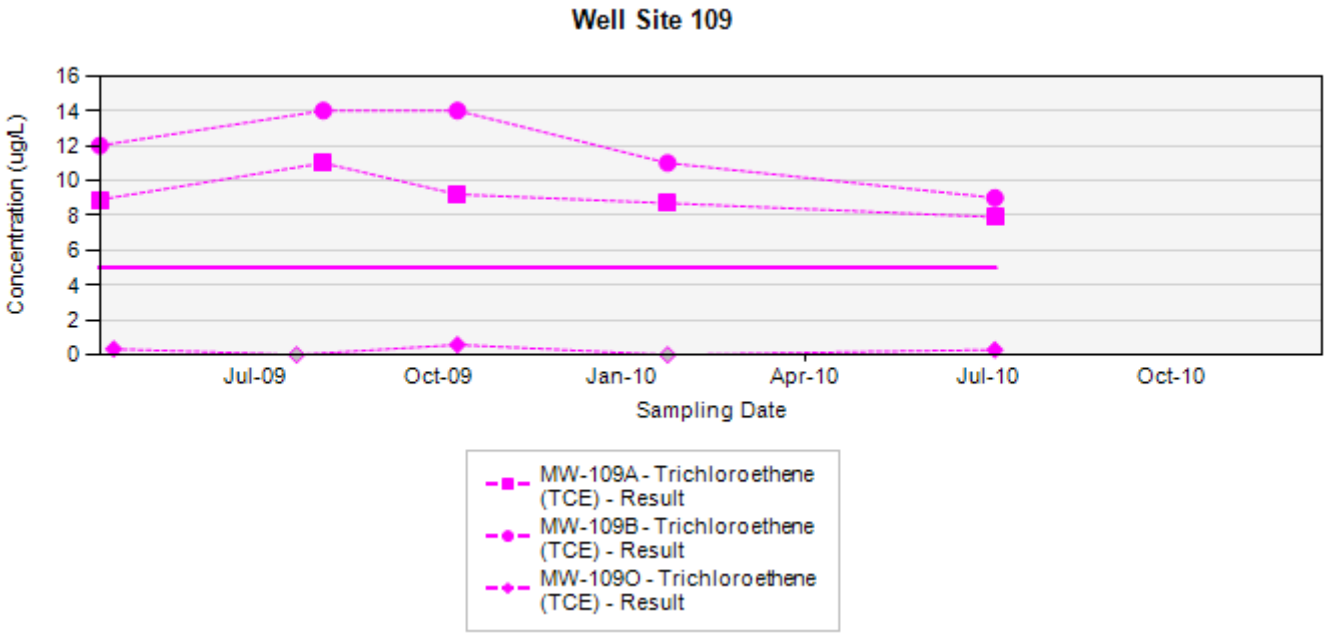


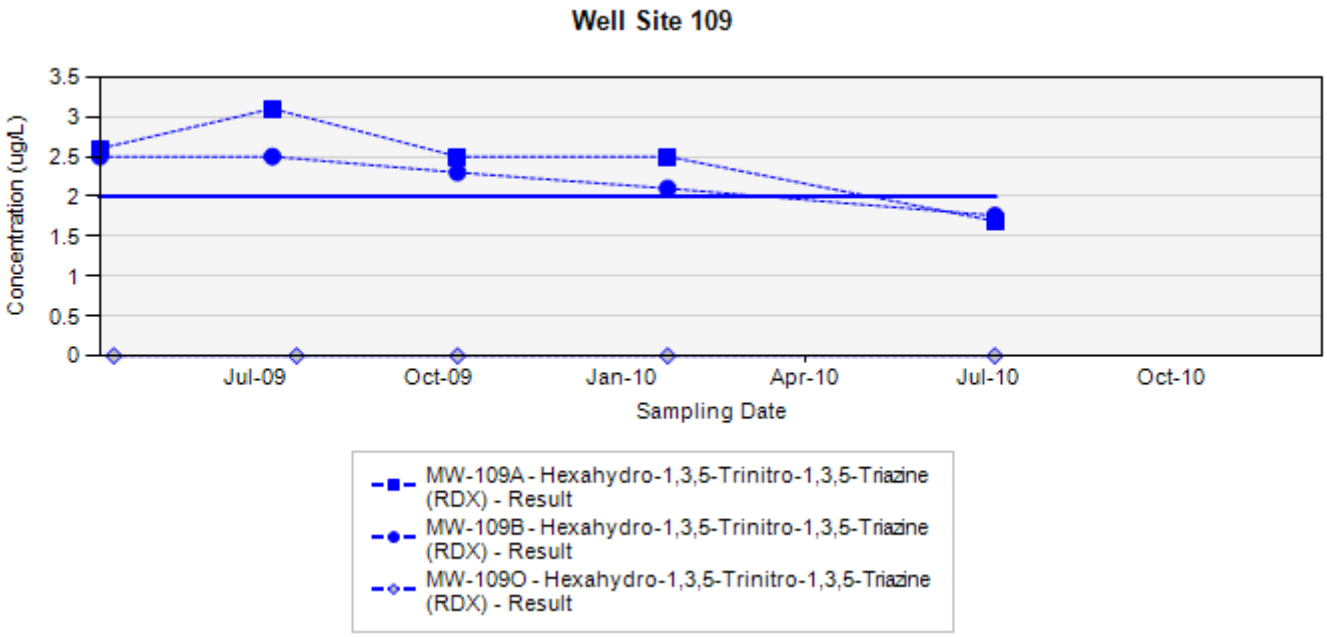
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



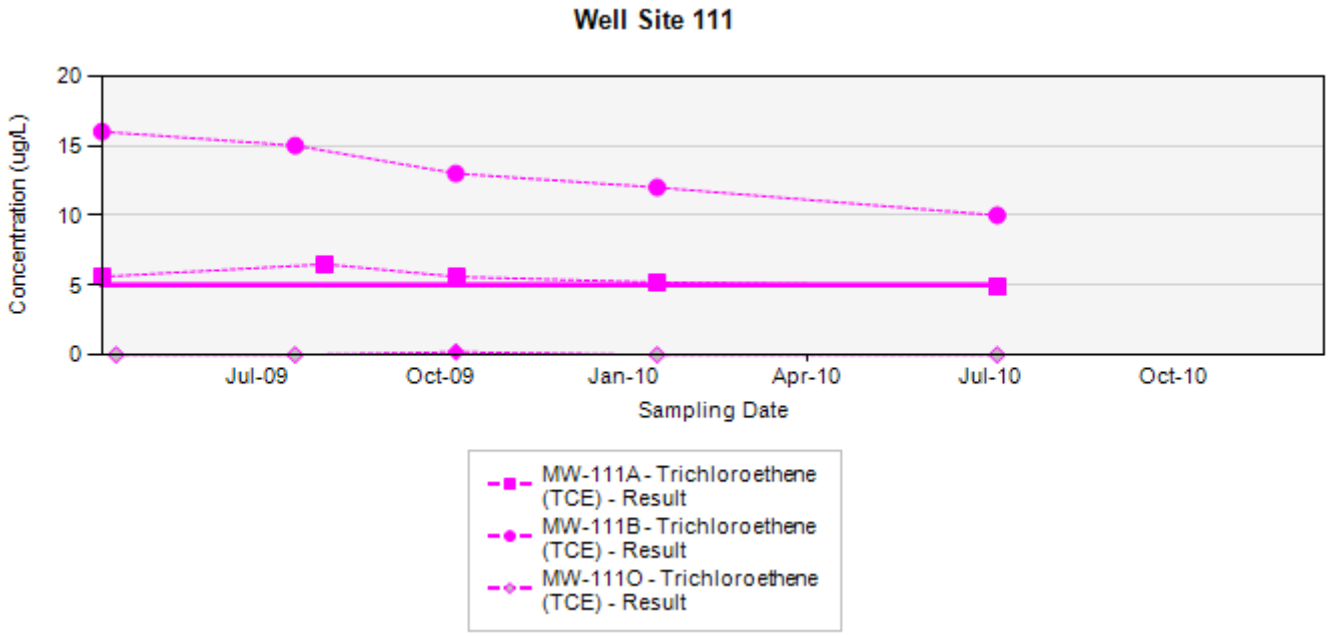


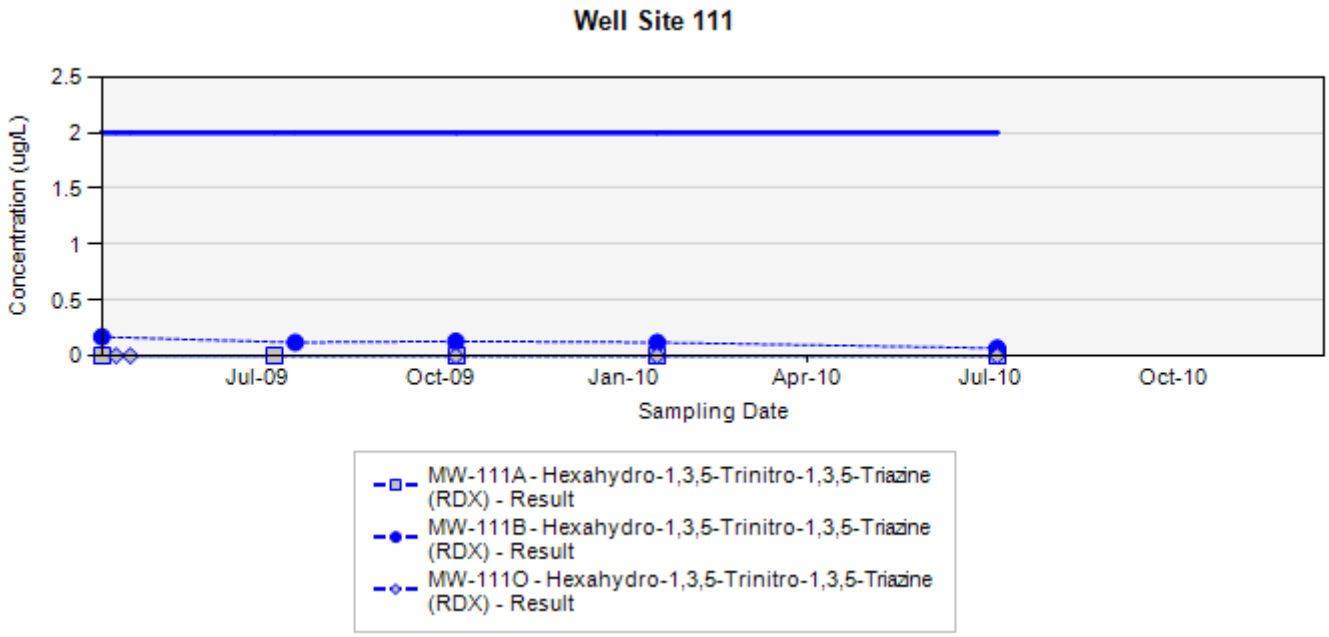
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



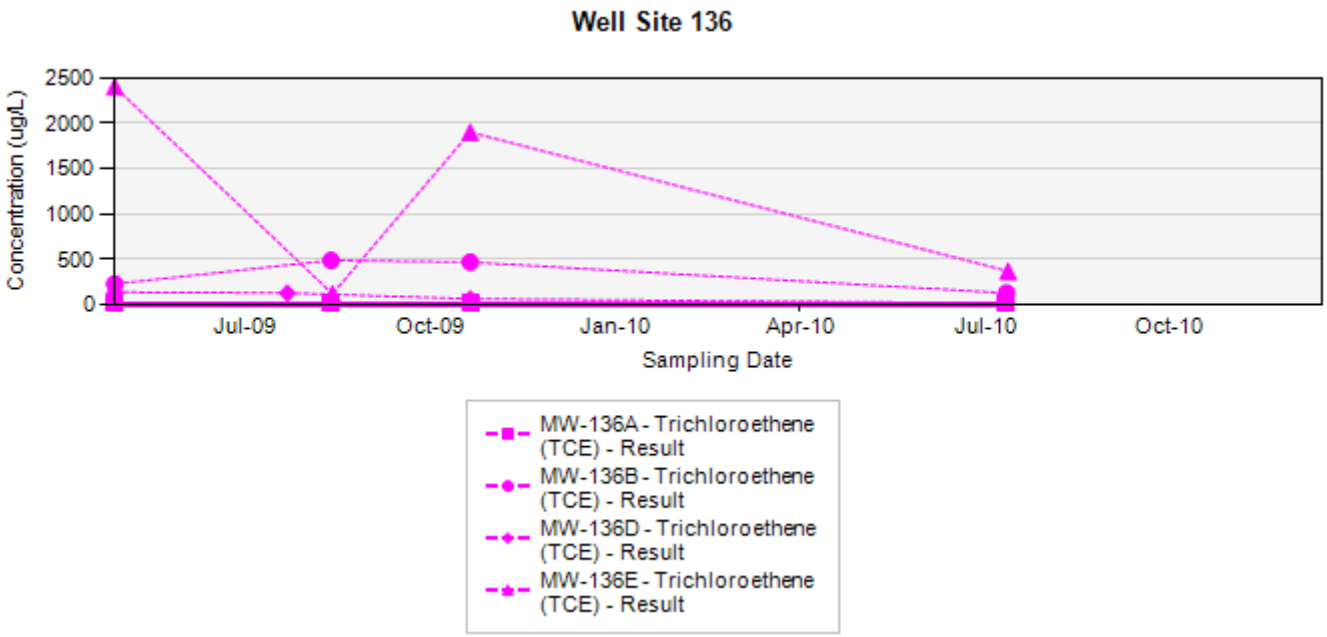


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells

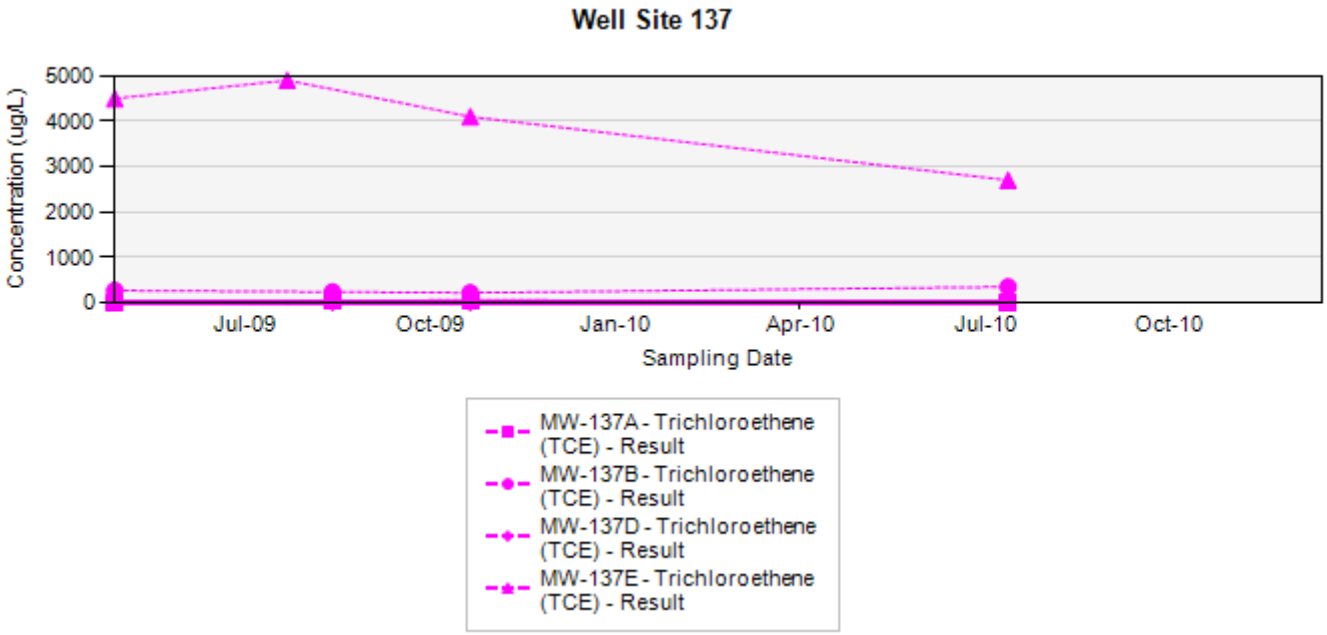


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells

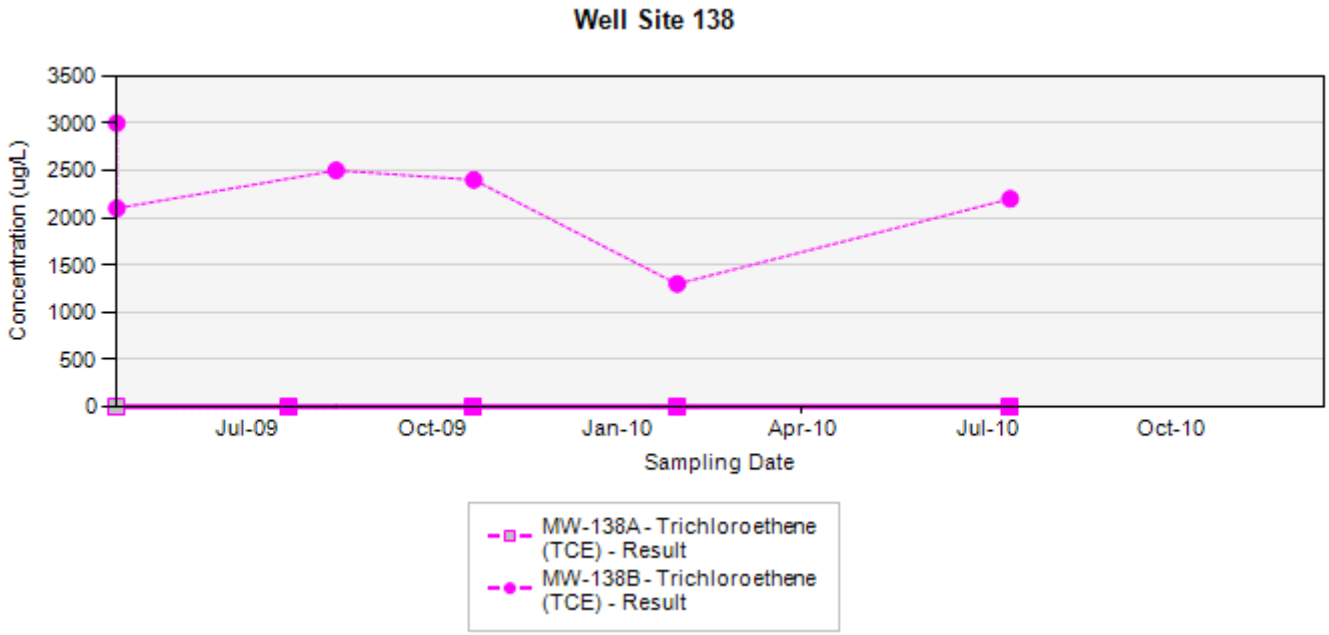


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells

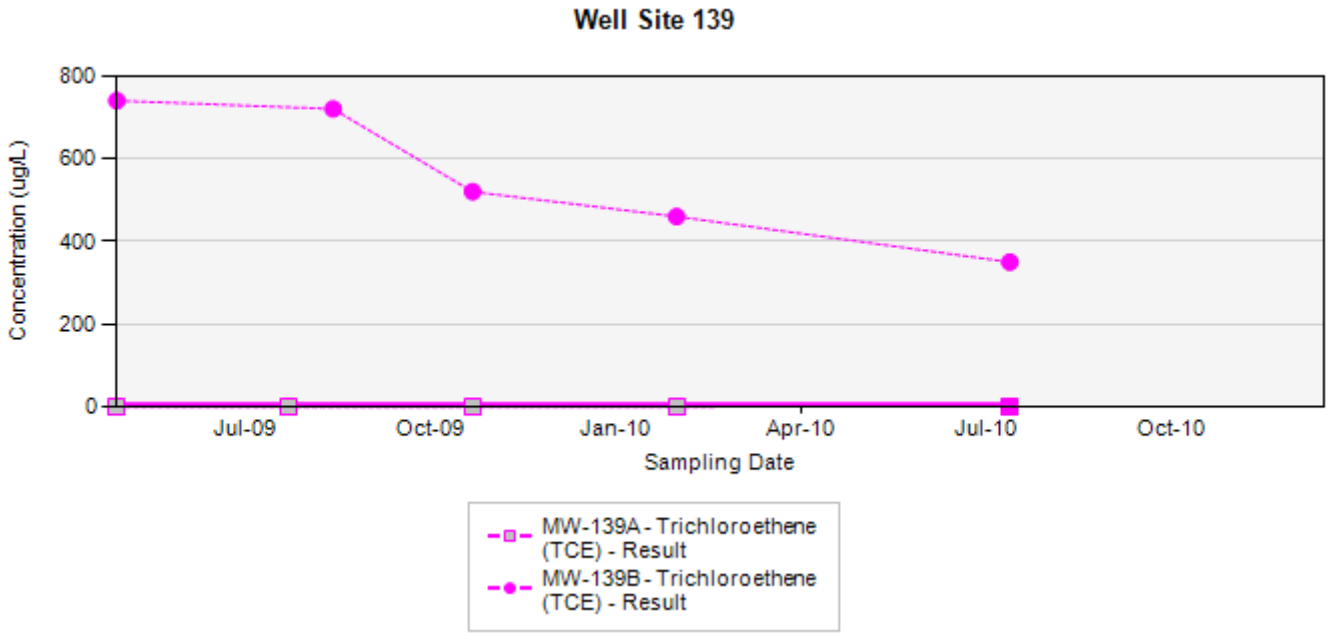


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells

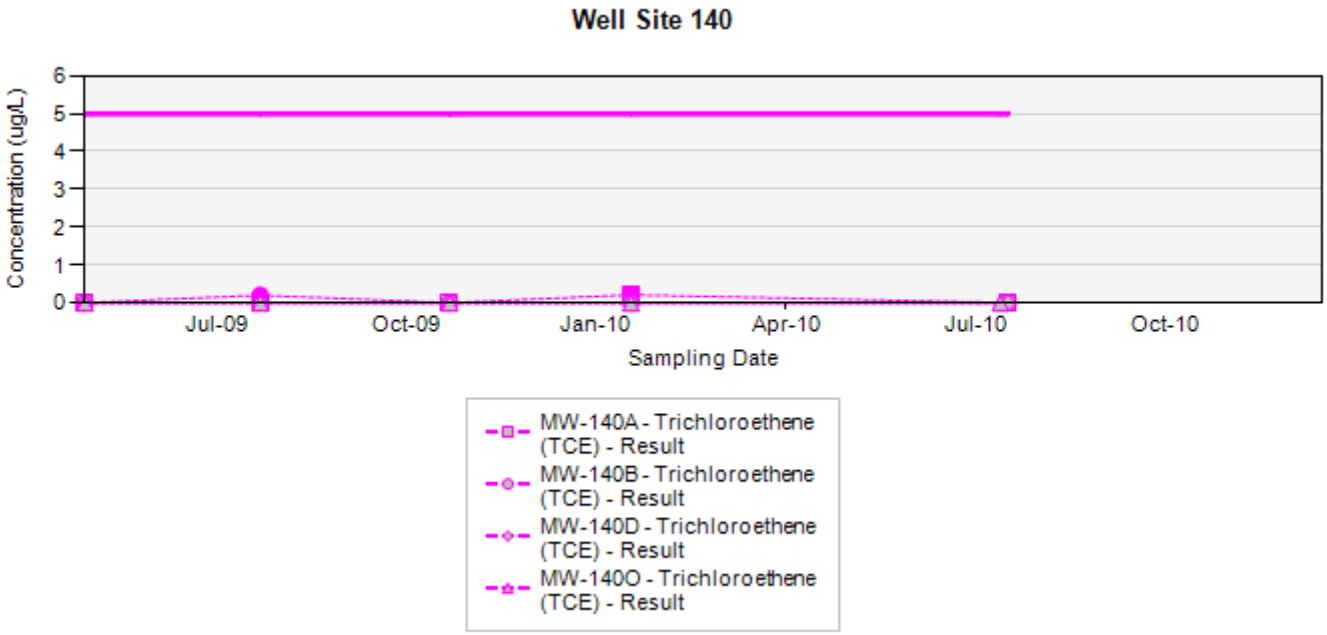


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts Load Line 4/Atlas Missile Area/Landfill Monitoring Wells



Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

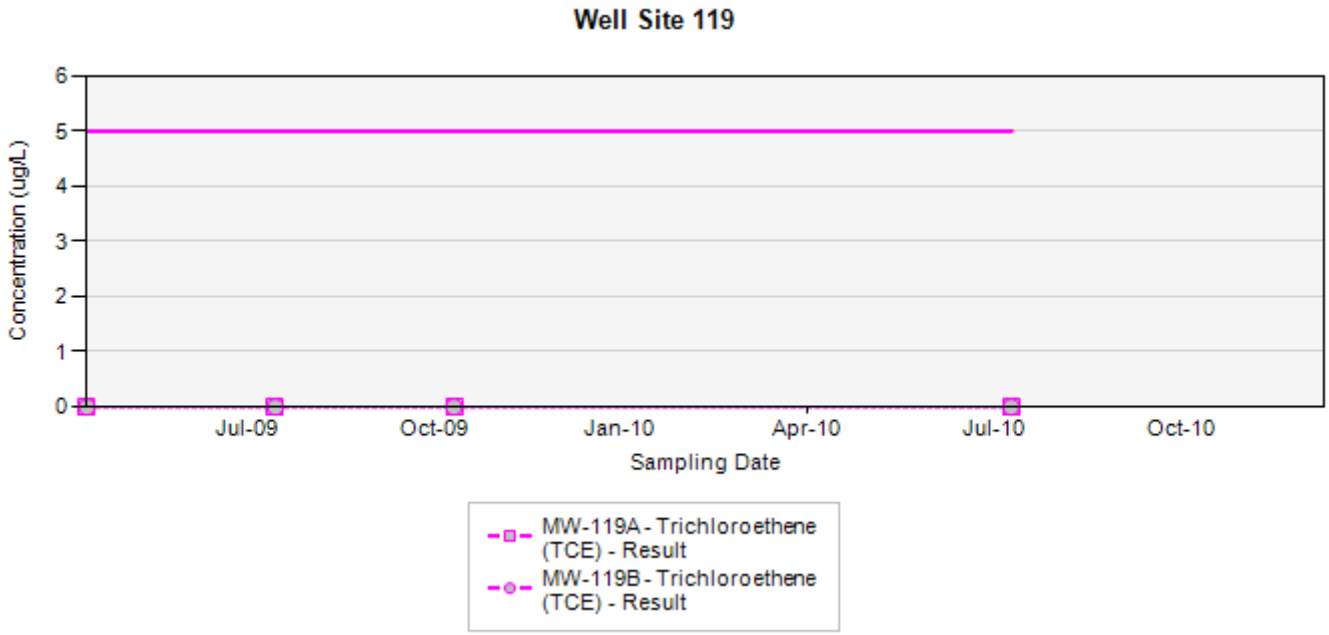
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

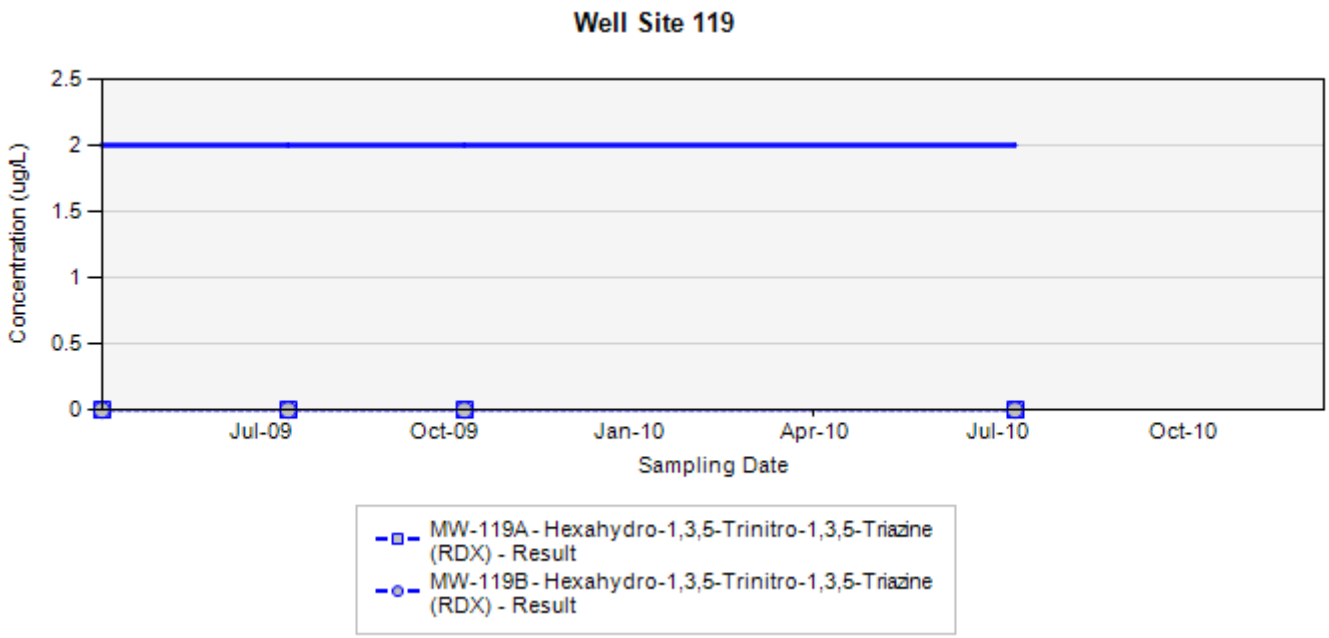
ug/L: micrograms per liter
Silver markers indicate non-detected results

APPENDIX A.6

FOCUSED EXTRACTION MONITORING WELL CONCENTRATION TREND CHARTS

Concentration Trend Charts for Focused Extraction Monitoring Wells



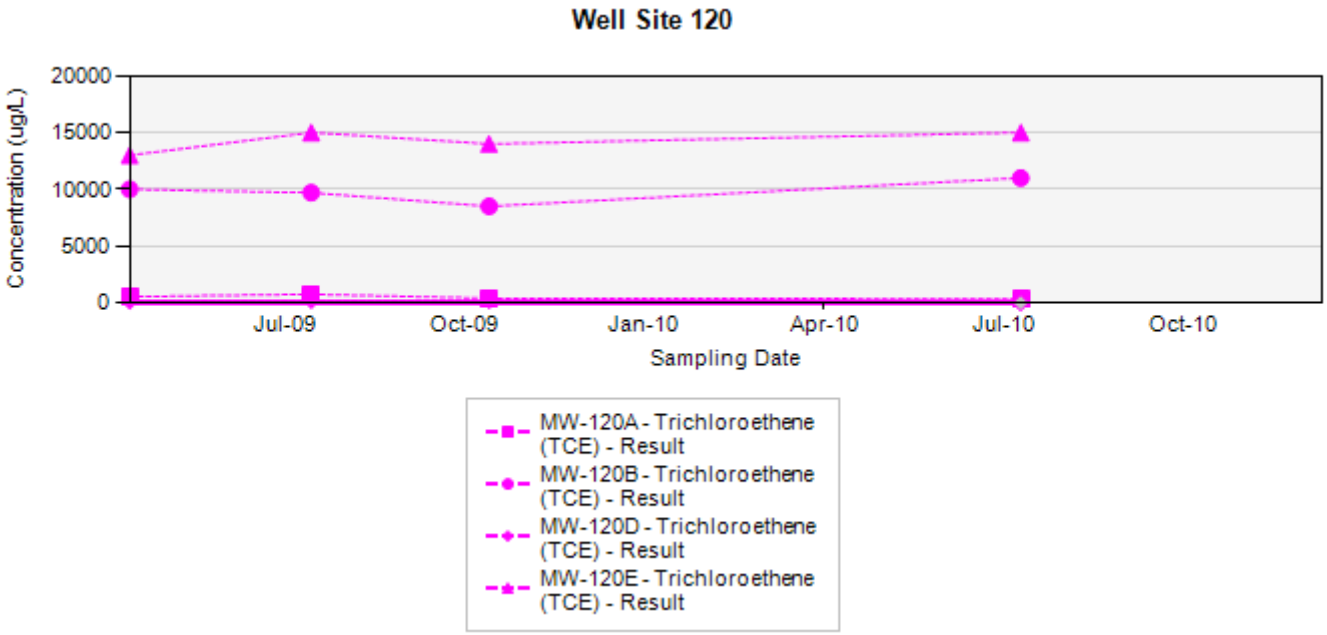


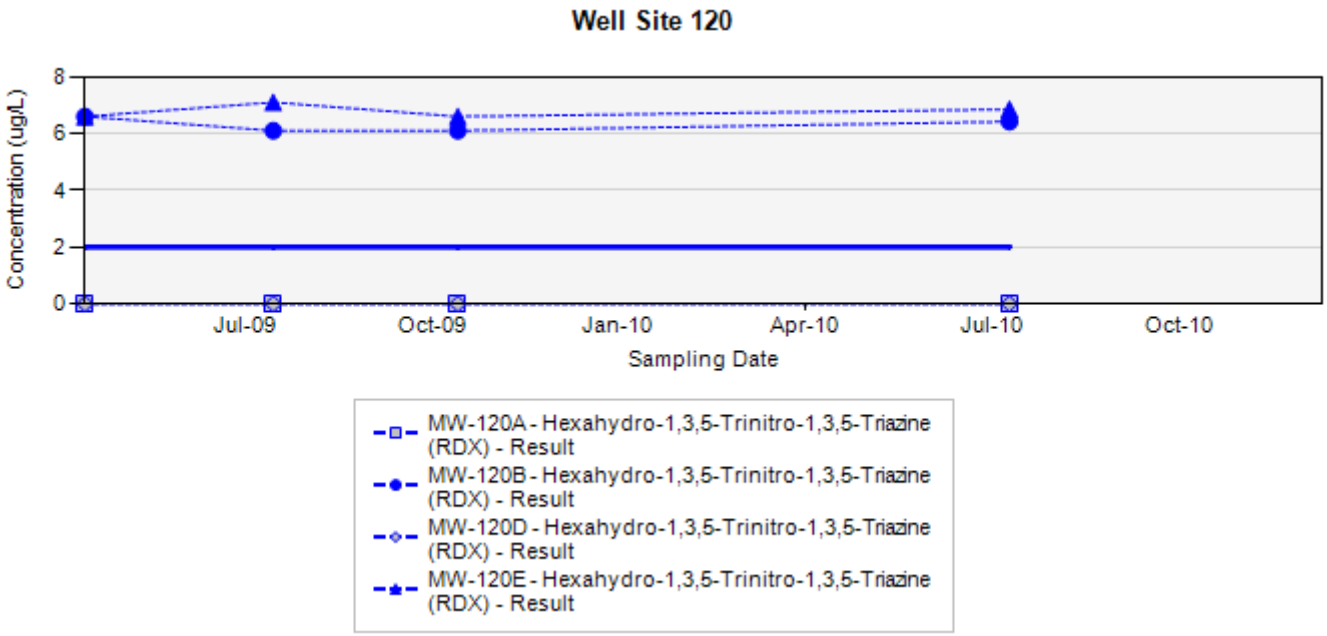
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Focused Extraction Monitoring Wells



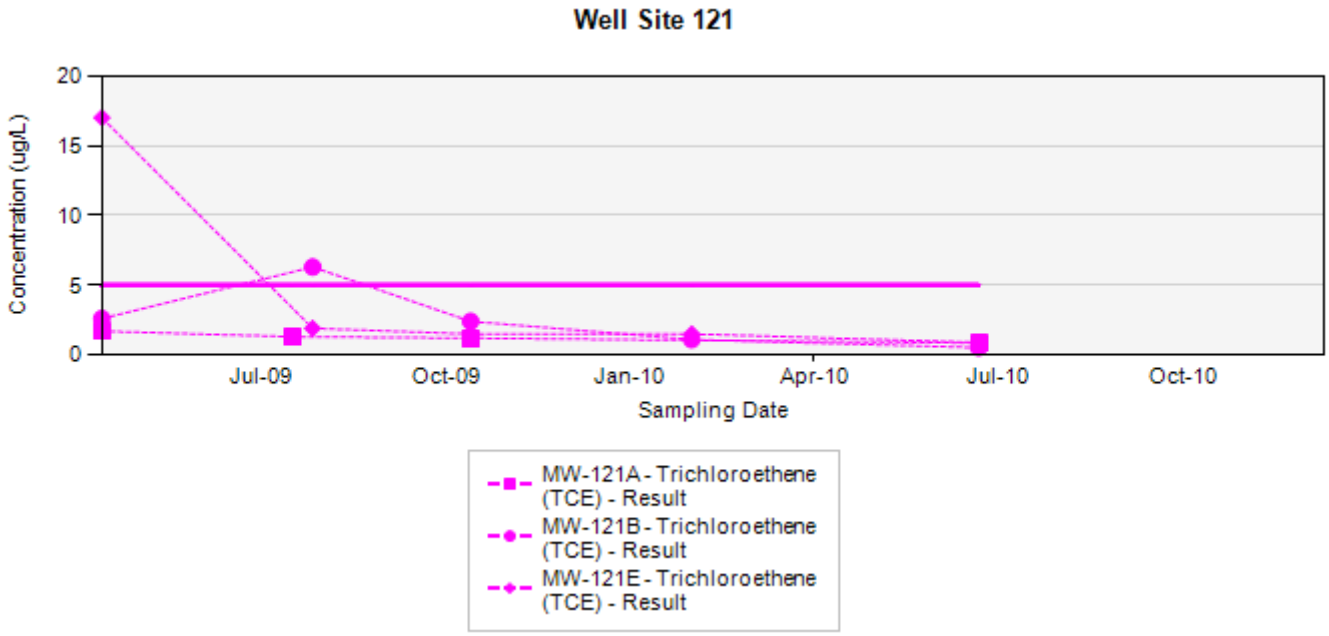


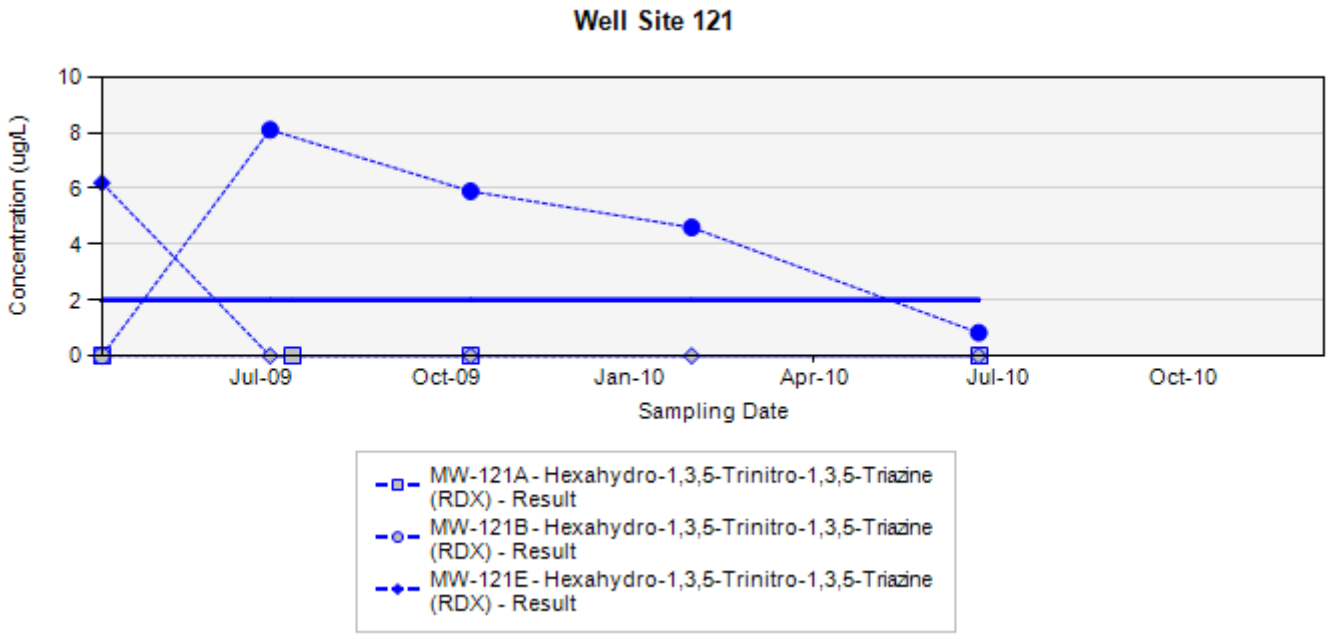
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Focused Extraction Monitoring Wells



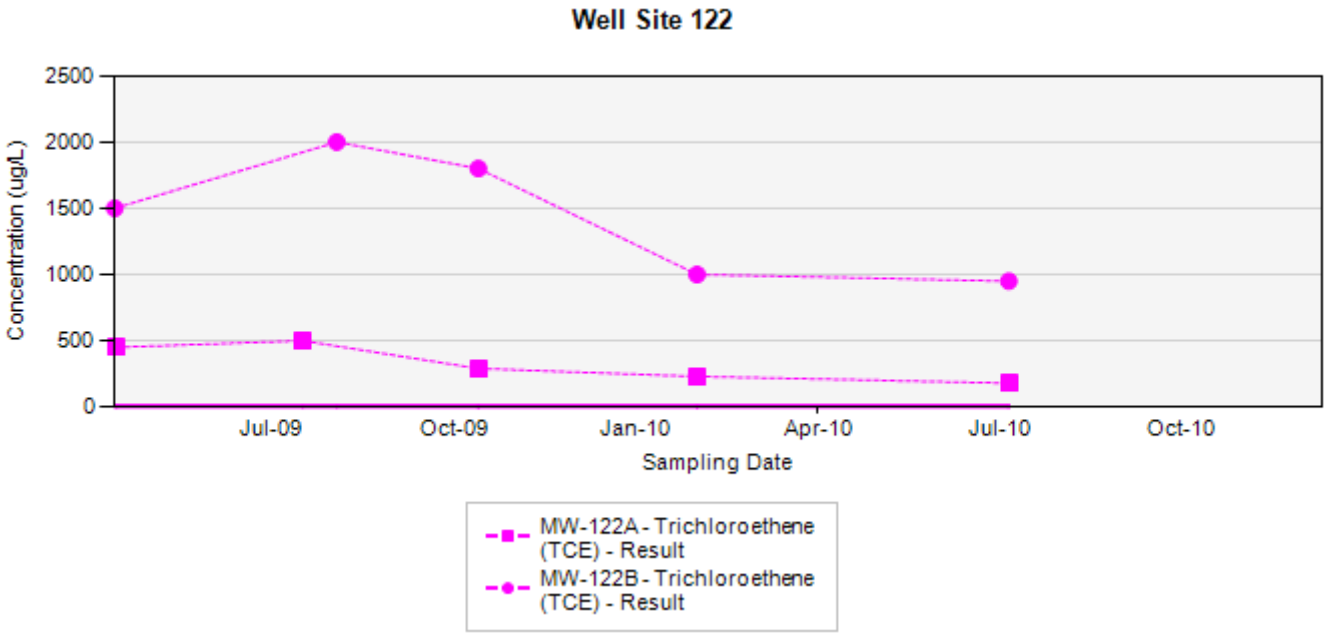


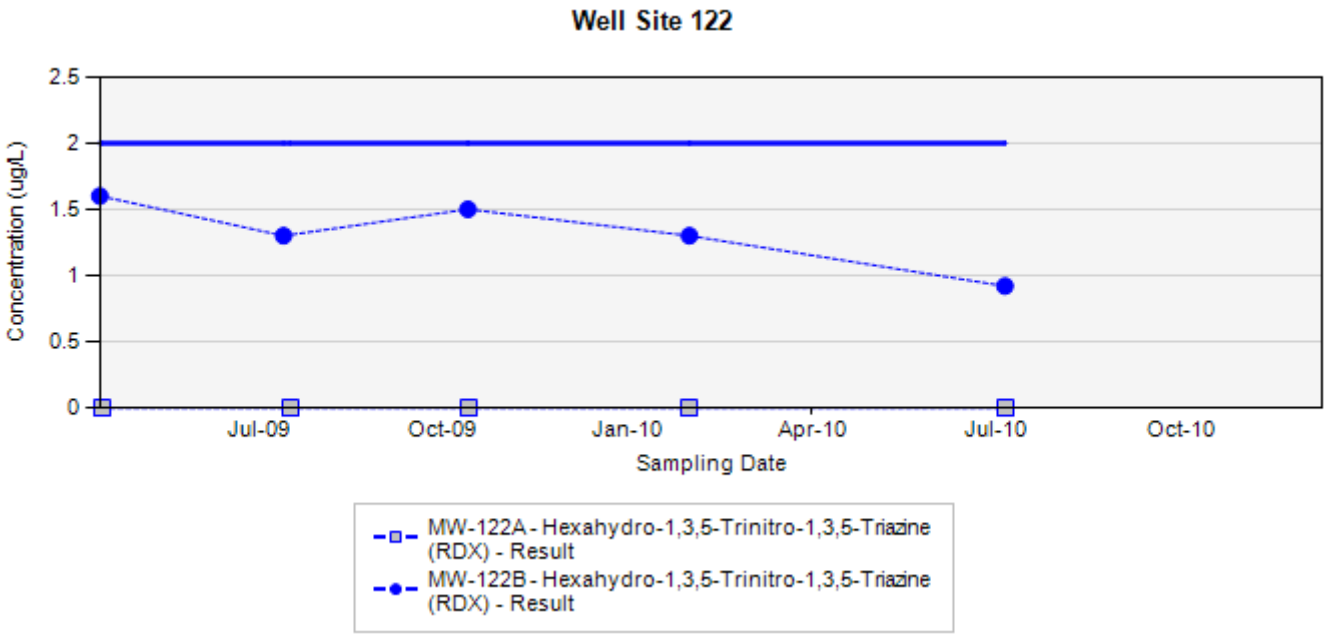
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Focused Extraction Monitoring Wells



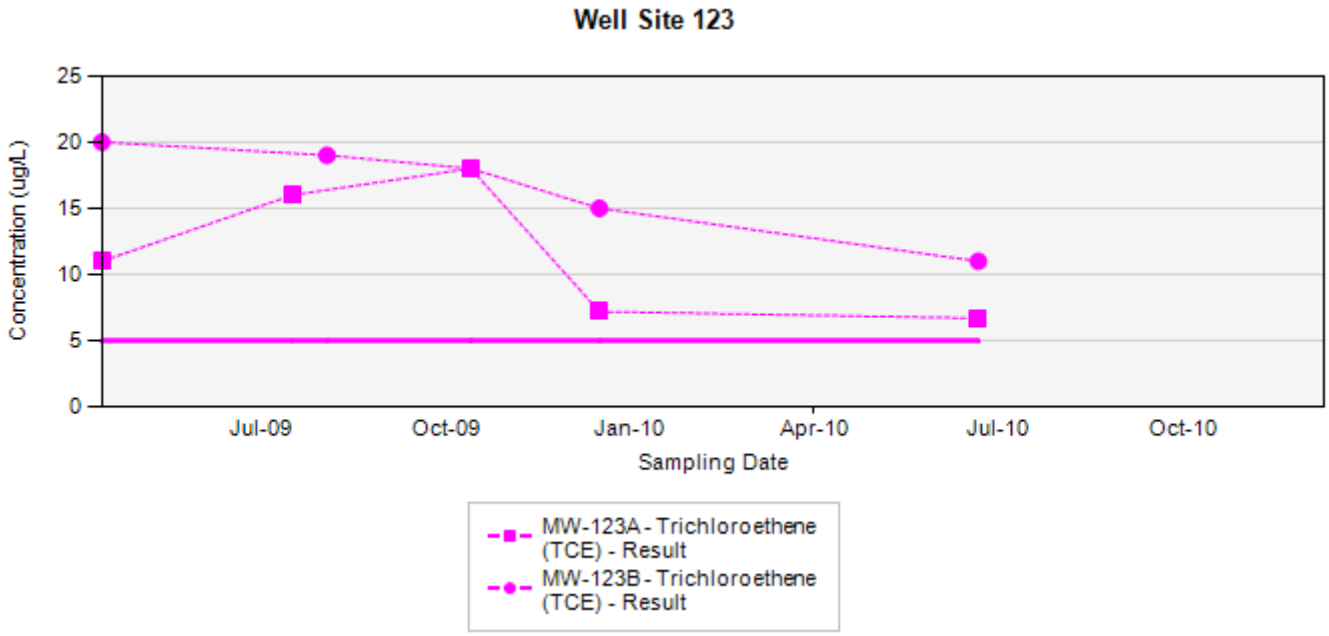


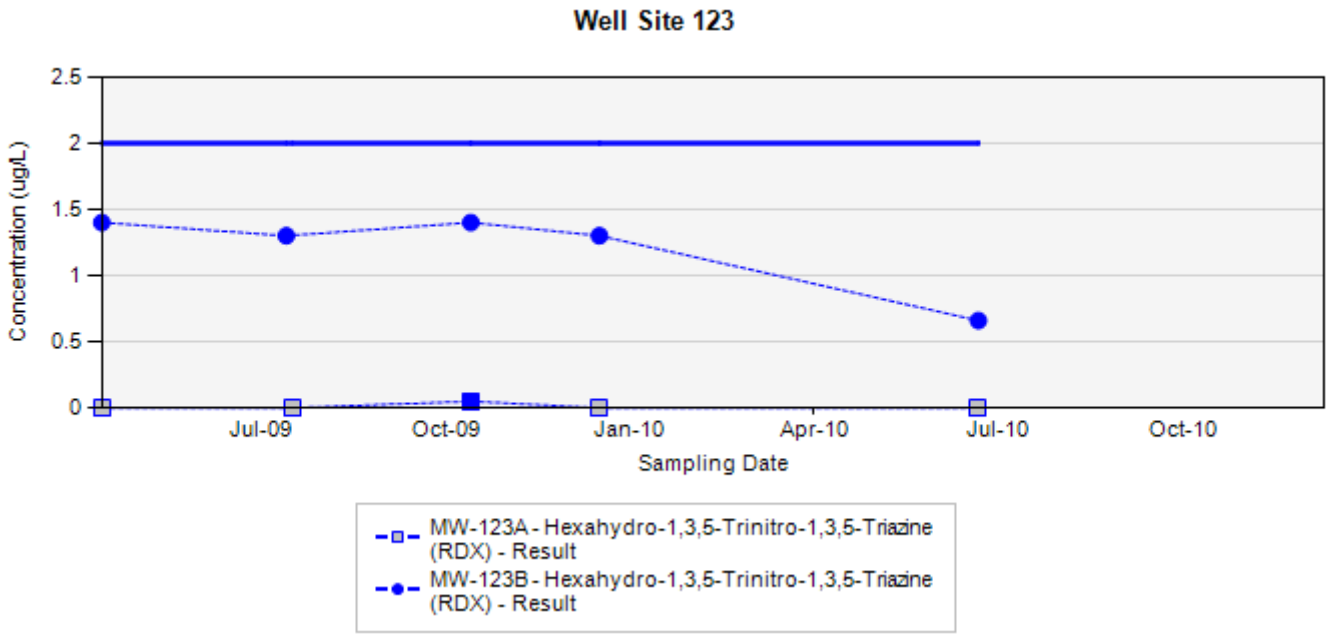
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Focused Extraction Monitoring Wells



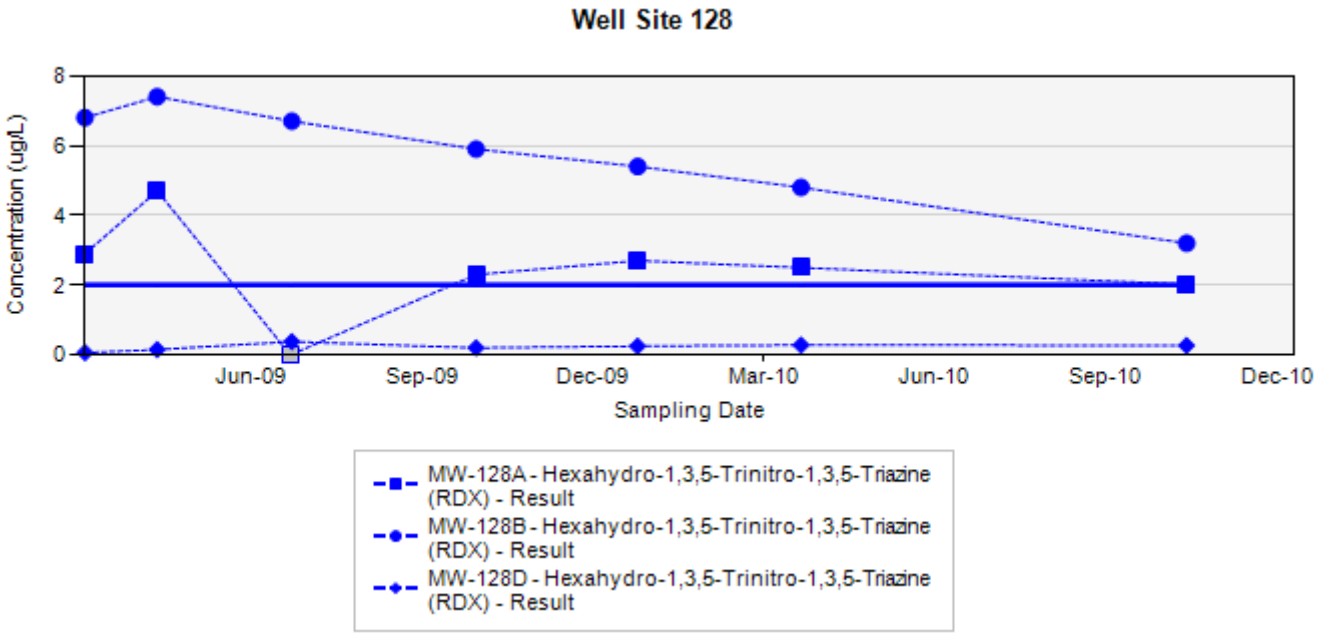


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Focused Extraction Monitoring Wells

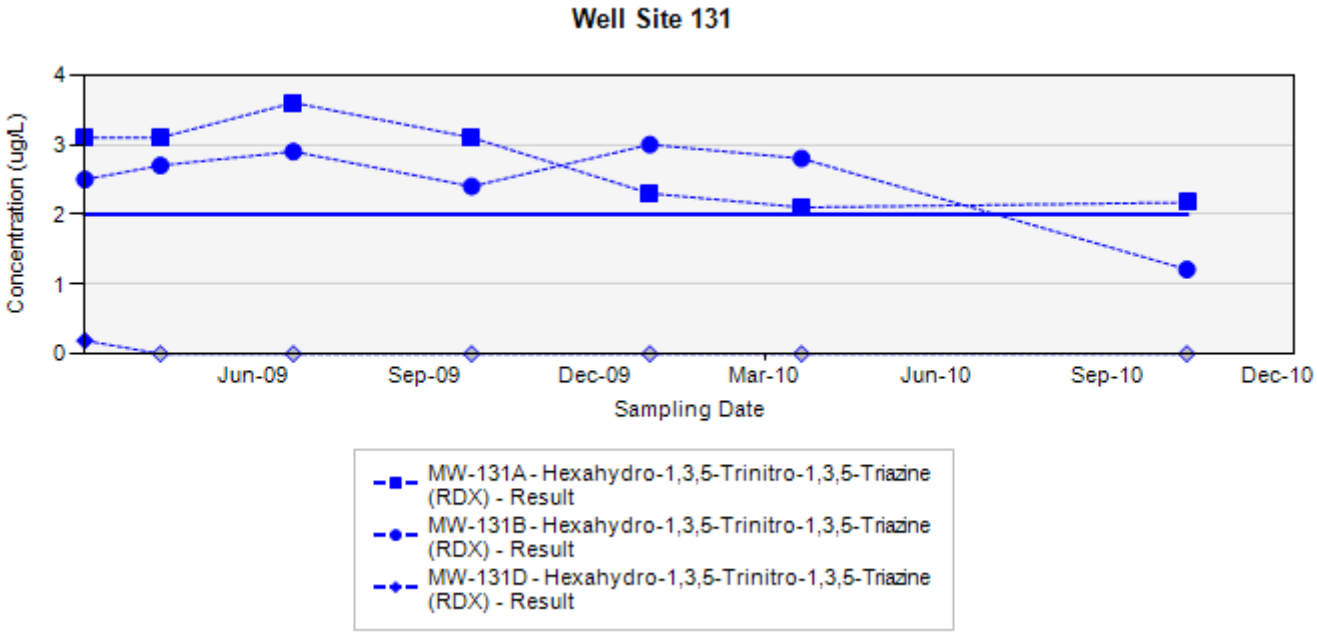


Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Focused Extraction Monitoring Wells

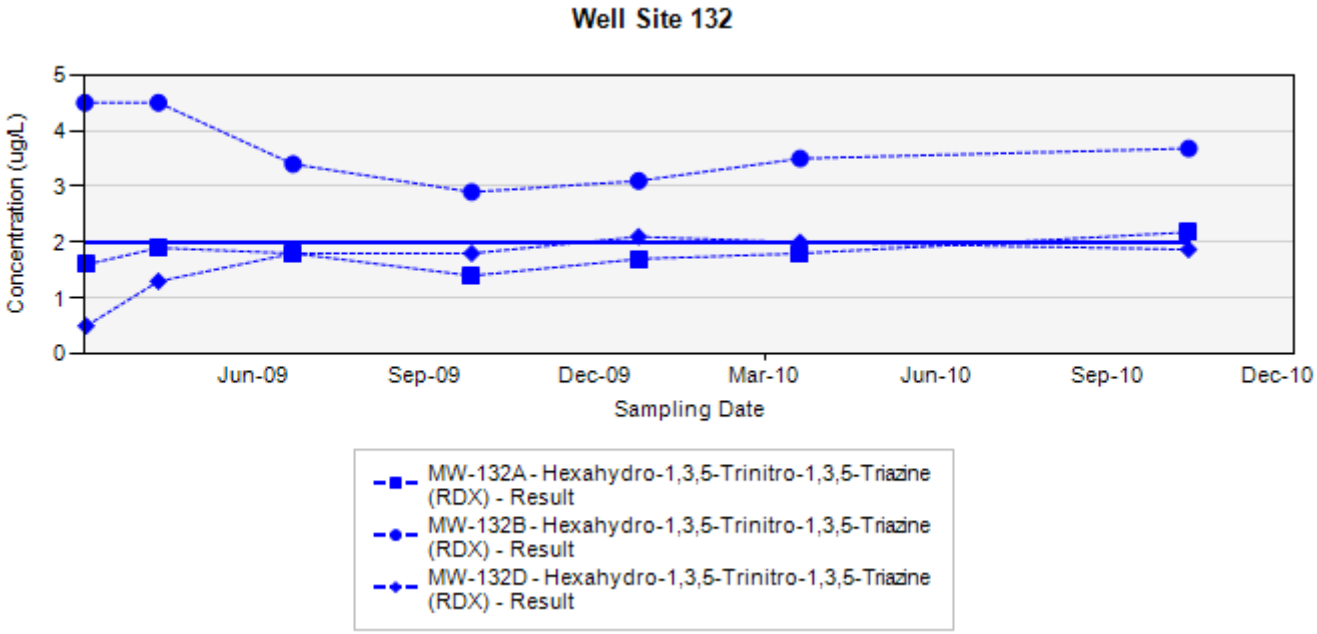


Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Focused Extraction Monitoring Wells

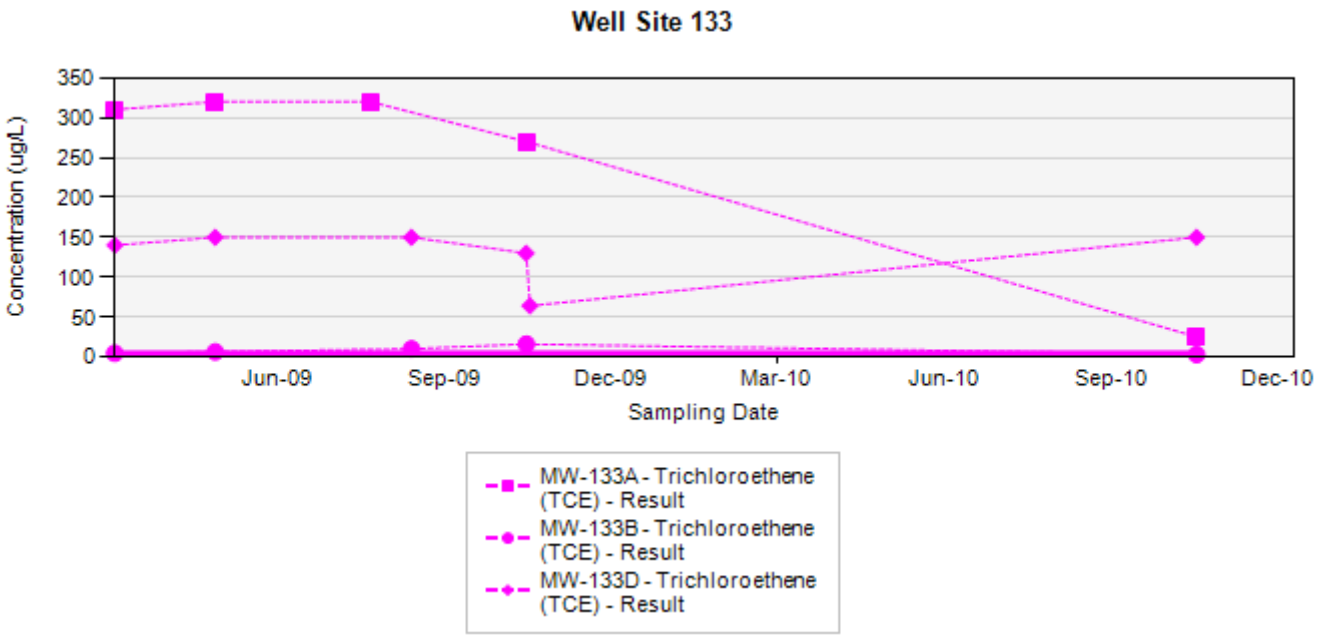


Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Focused Extraction Monitoring Wells

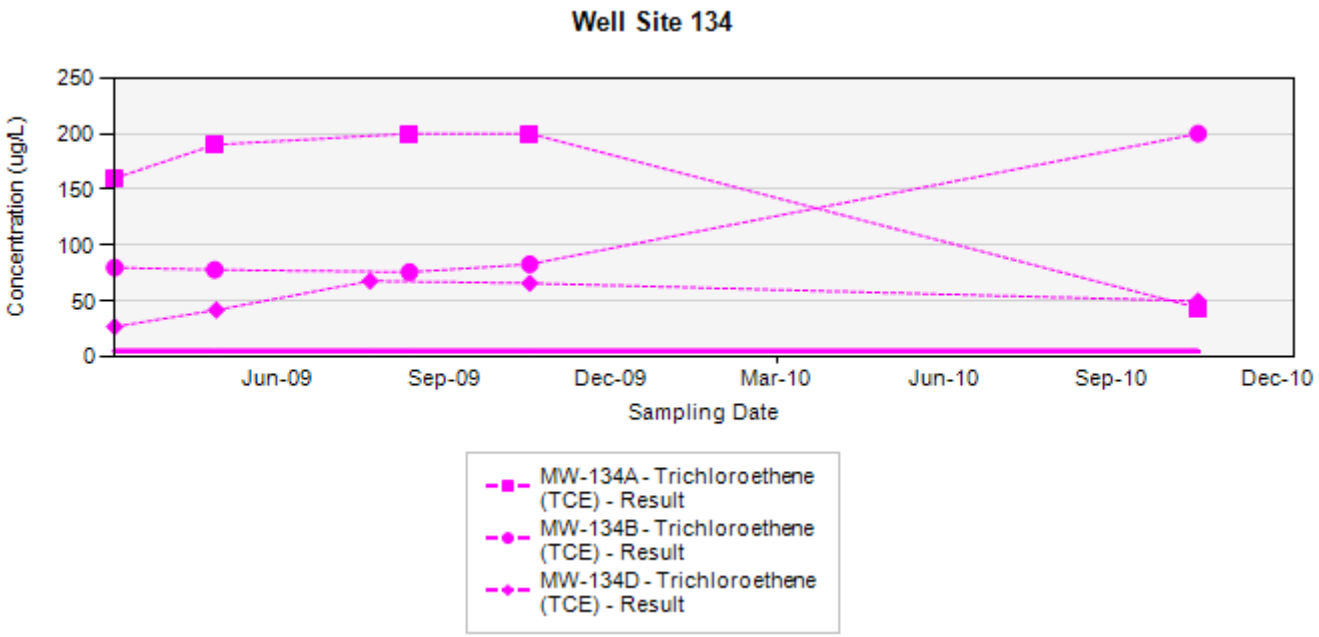


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Focused Extraction Monitoring Wells

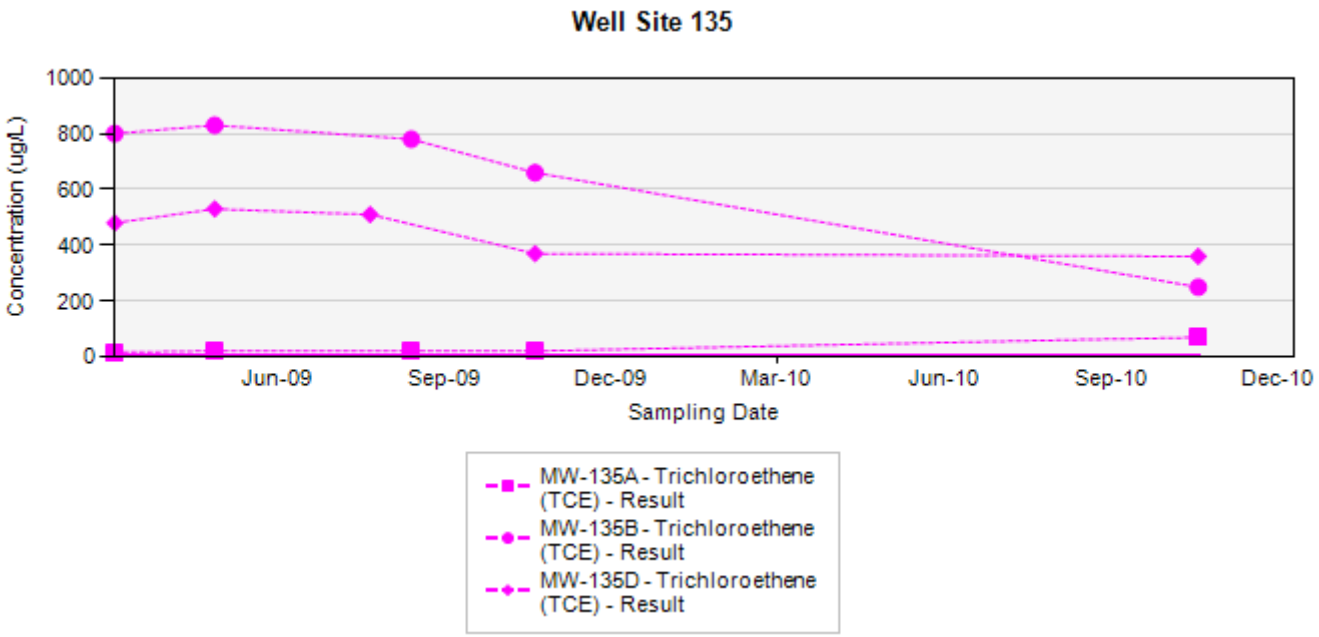


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Focused Extraction Monitoring Wells



Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

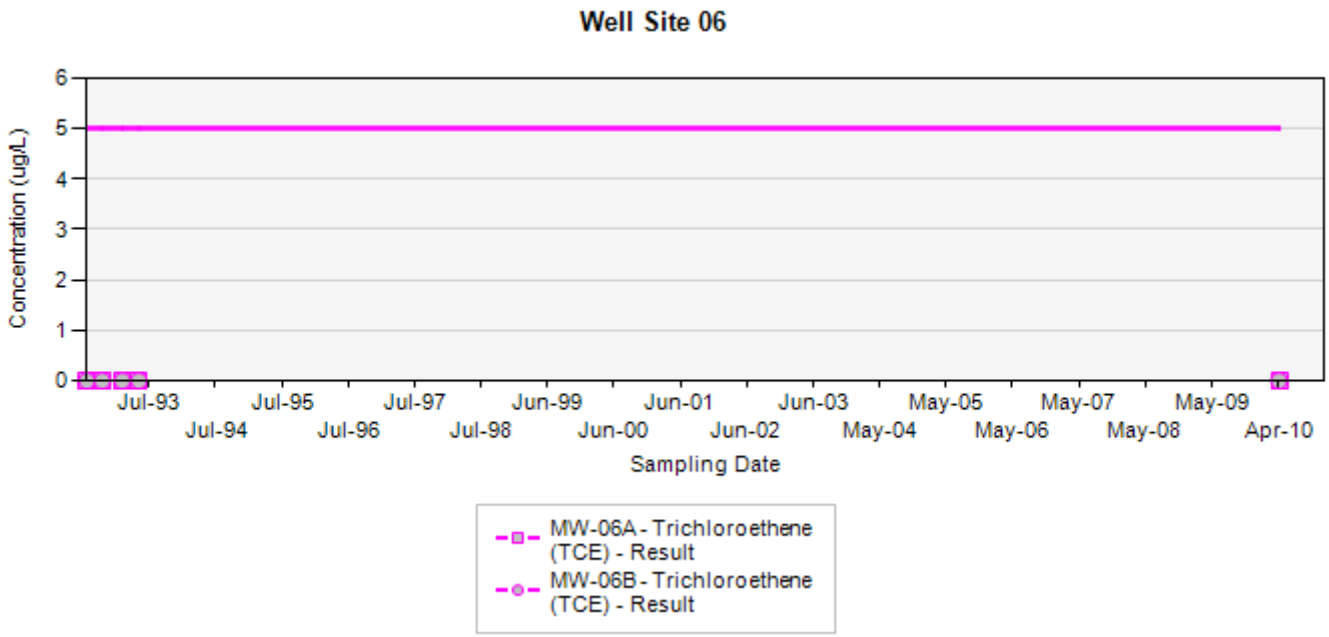
In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

APPENDIX A.7

UPGRADIENT, SIDEGRADIENT, AND DOWNGRADIENT MONITORING WELL CONCENTRATION TREND CHARTS

Concentration Trend Charts for Upgradient/Sidegradient and Downgradient Monitoring Wells

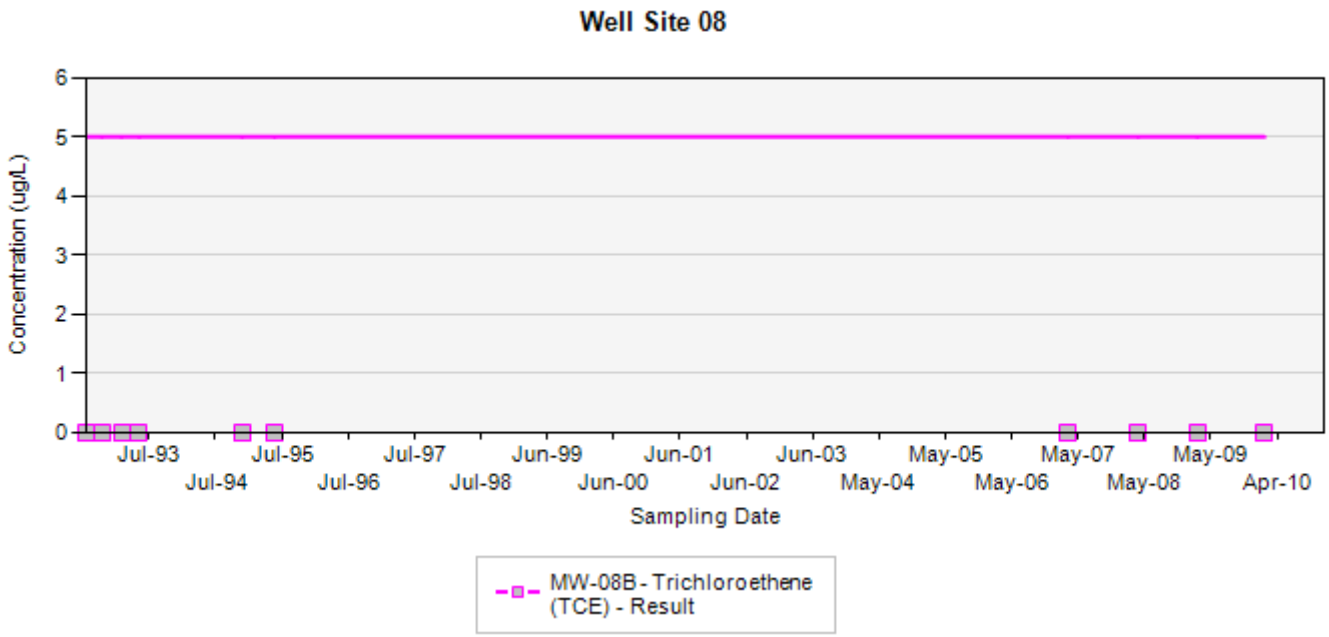


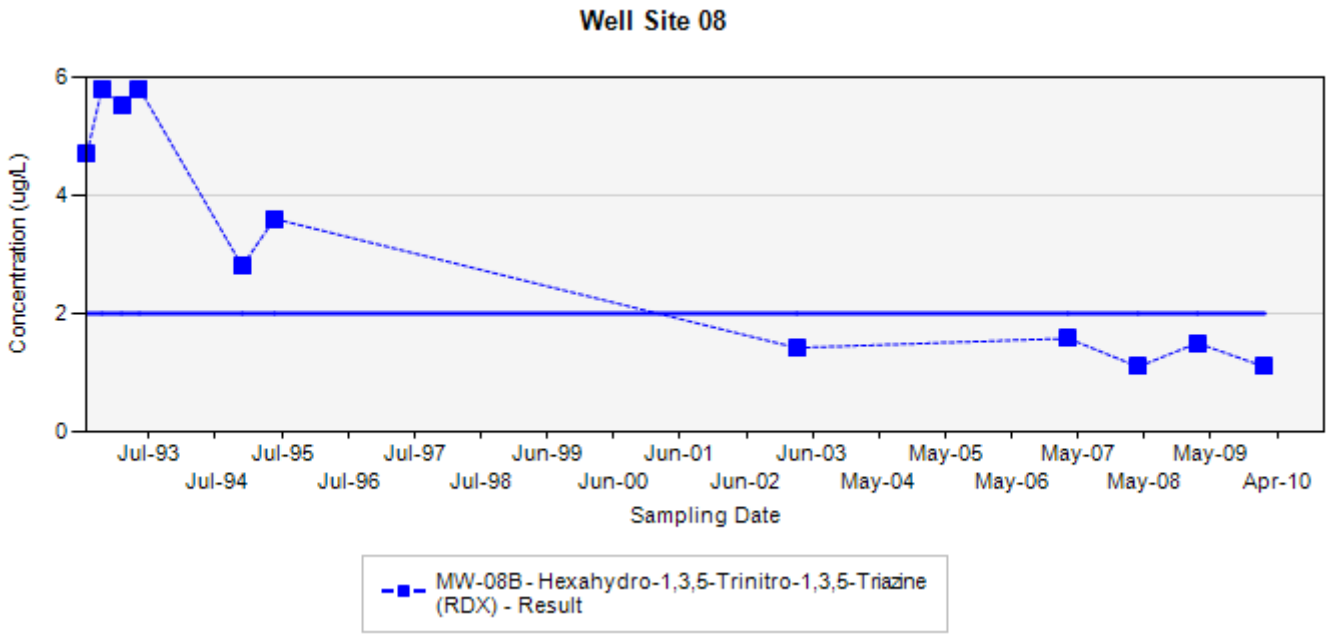
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Upgradient/Sidegradient and Downgradient Monitoring Wells



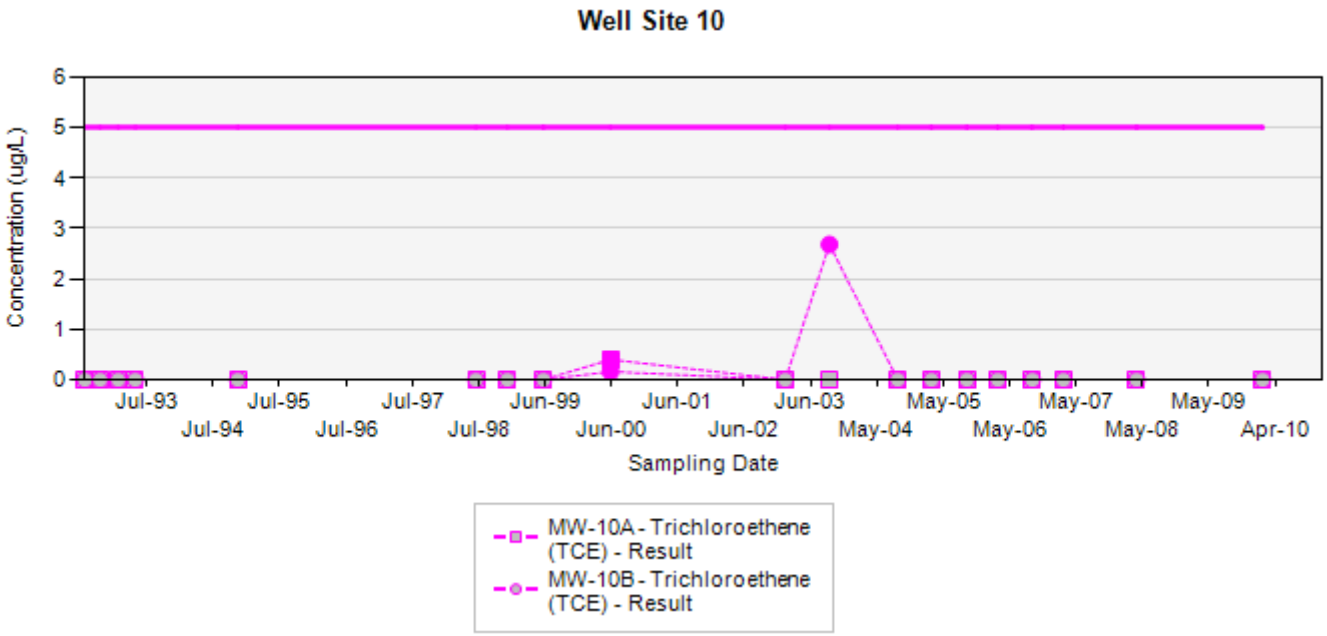


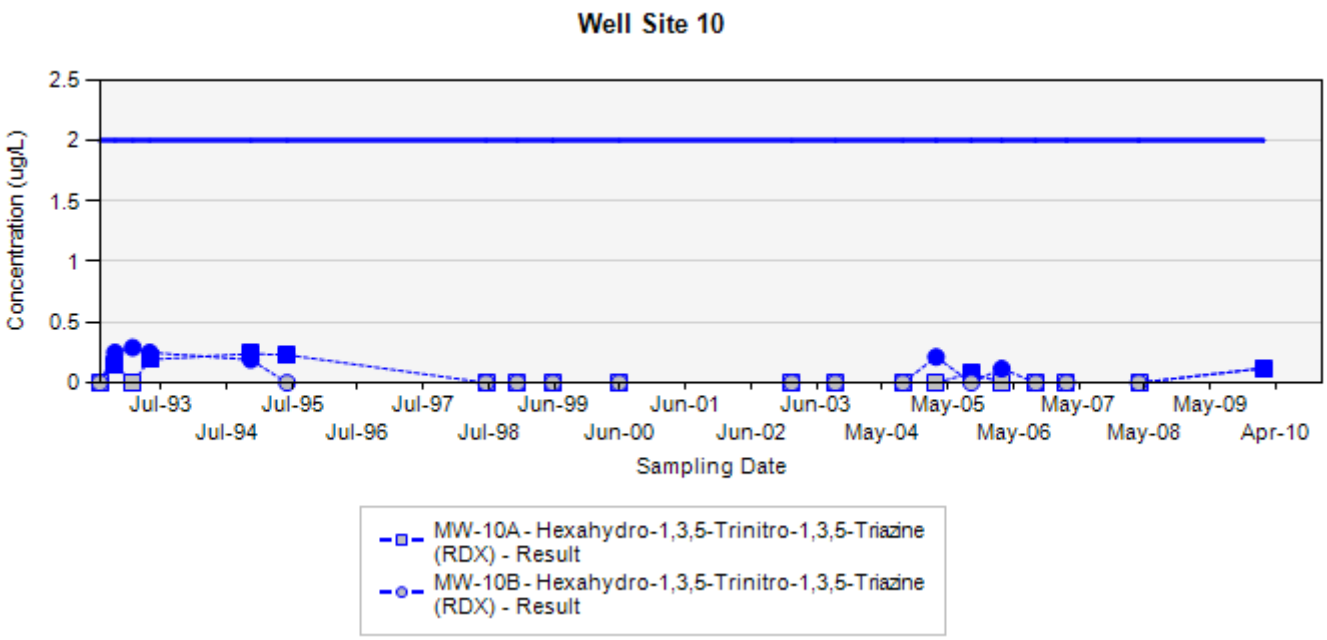
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Upgradient/Sidegradient and Downgradient Monitoring Wells



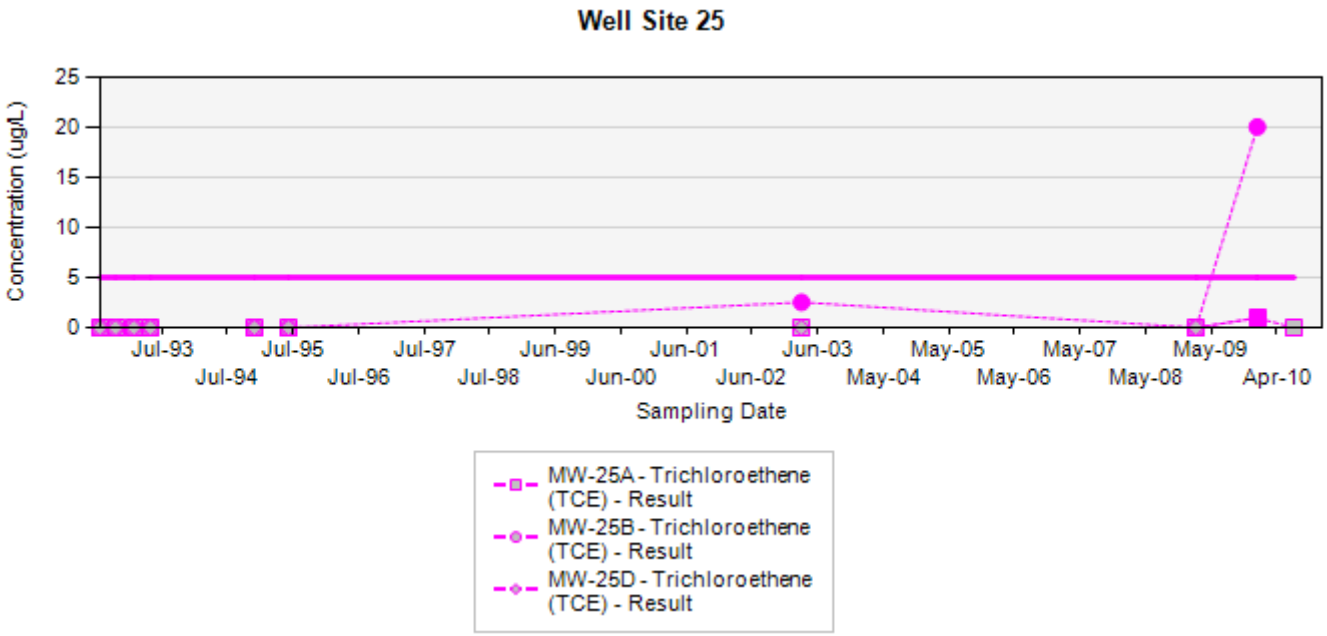


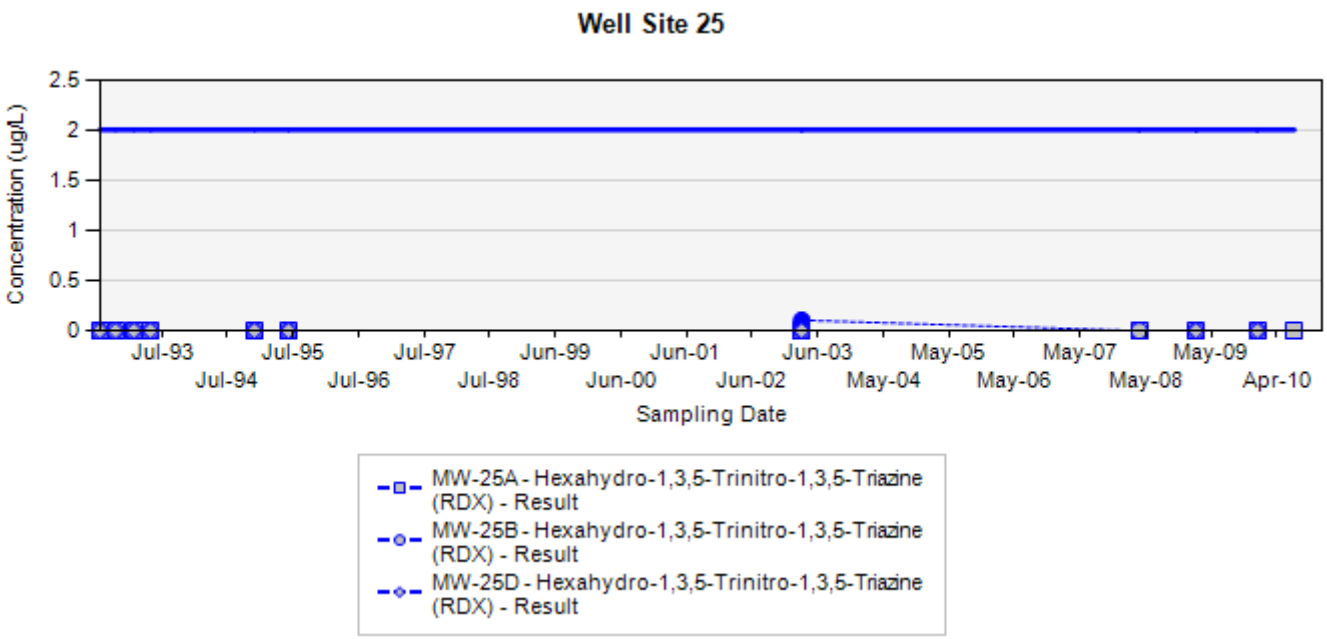
Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Upgradient/Sidegradient and Downgradient Monitoring Wells



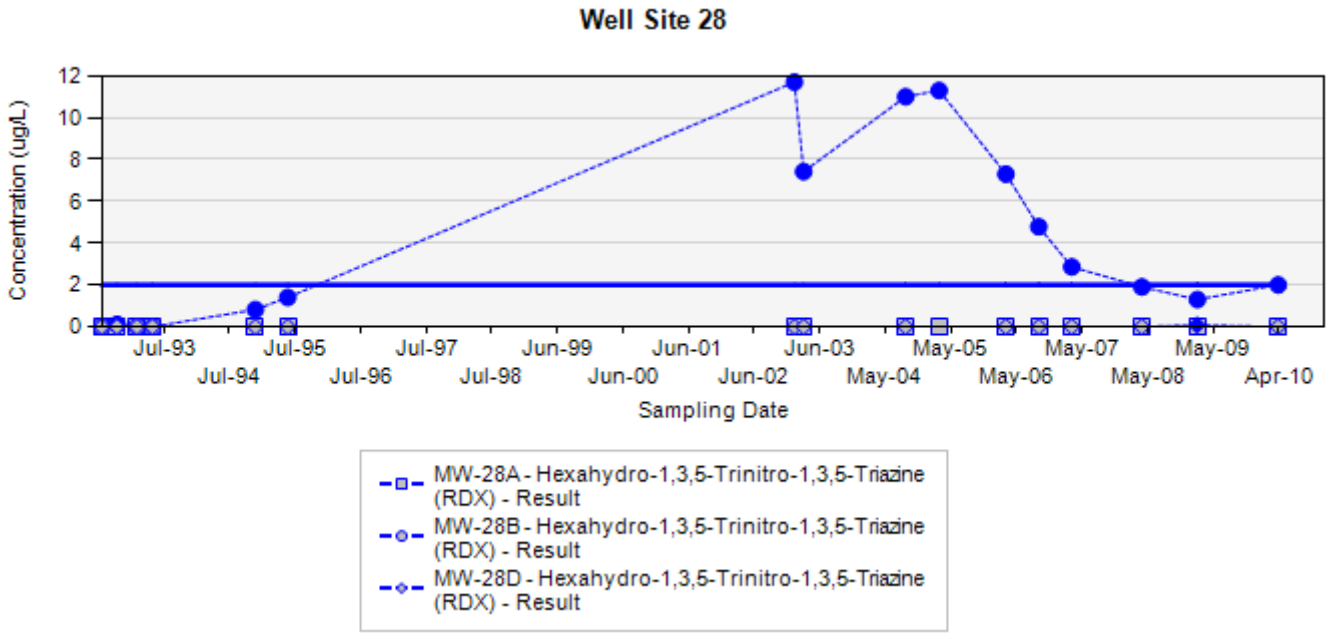


Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Upgradient/Sidegradient and Downgradient Monitoring Wells

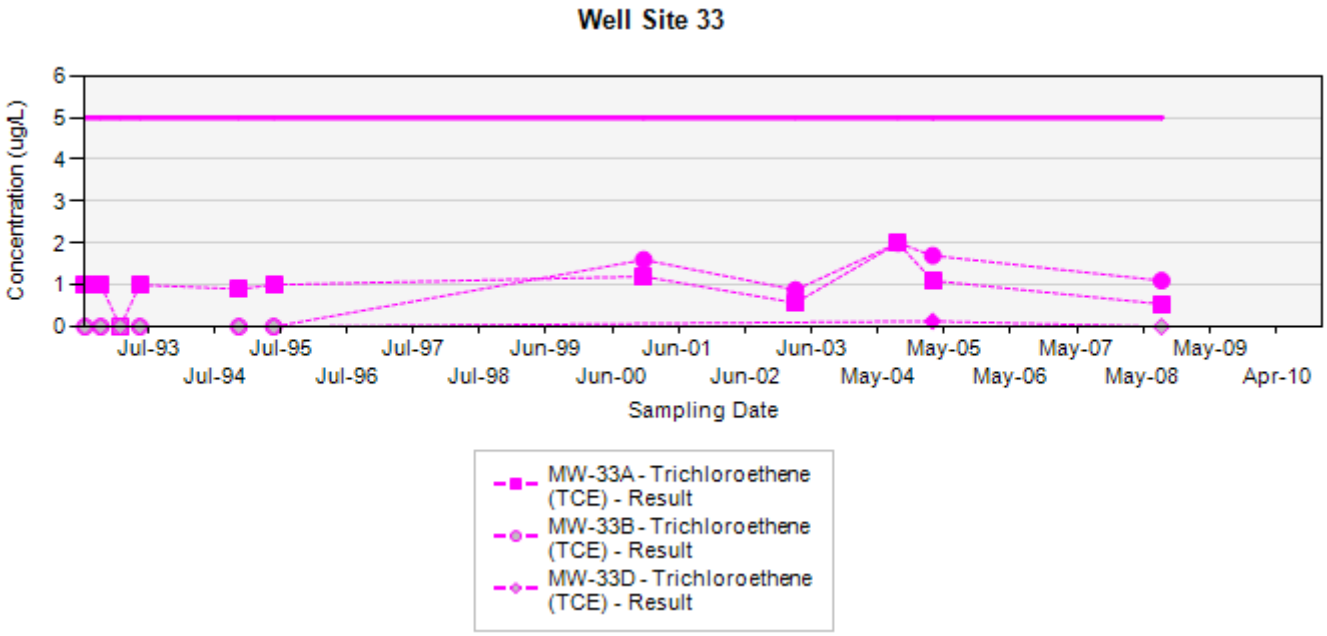


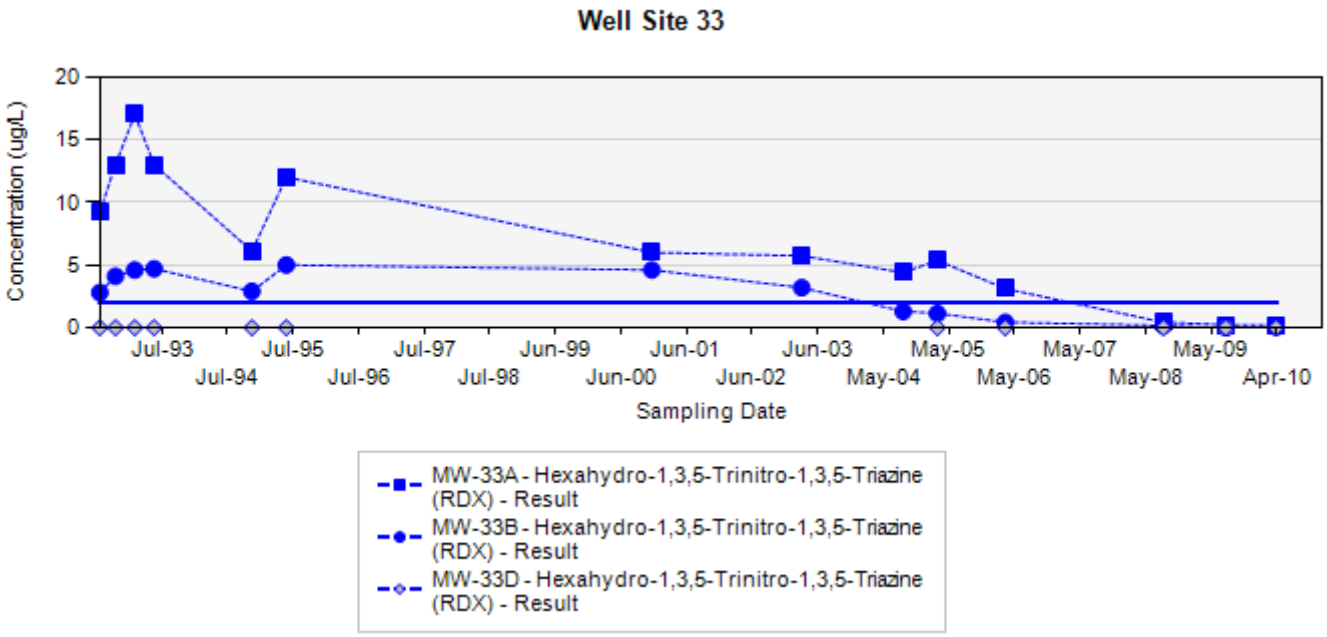
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Upgradient/Sidegradient and Downgradient Monitoring Wells





Final Target Groundwater Cleanup Goals for TCE is 5 UG/L
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
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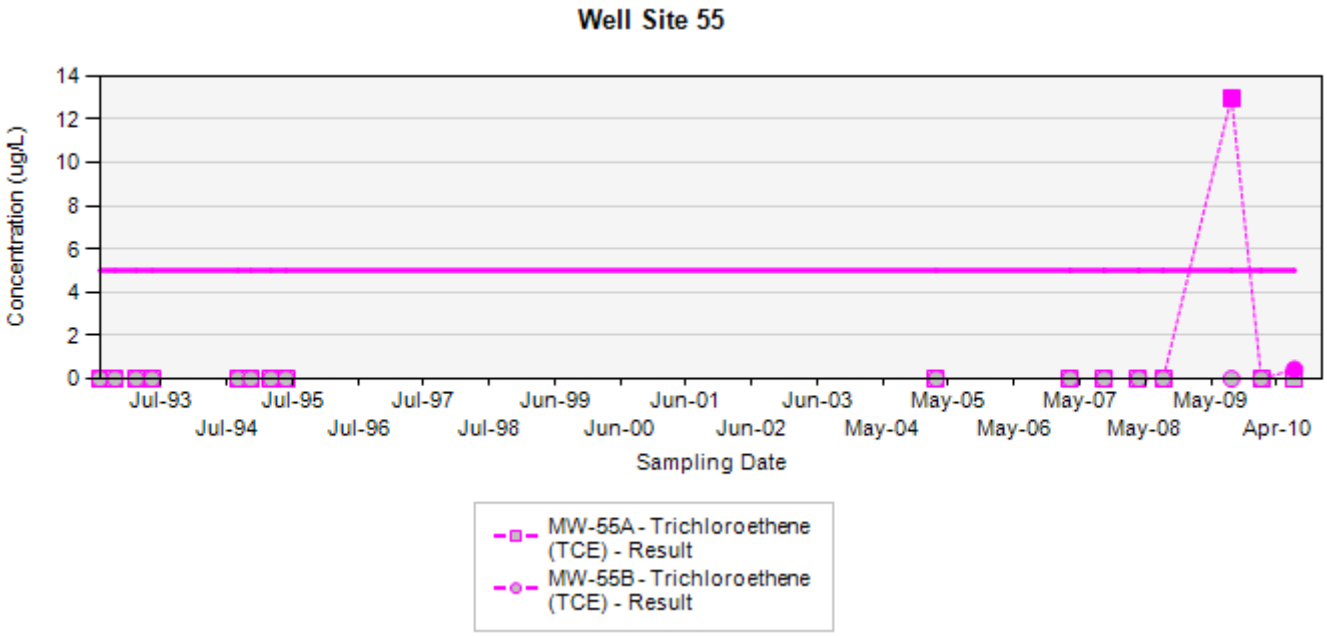

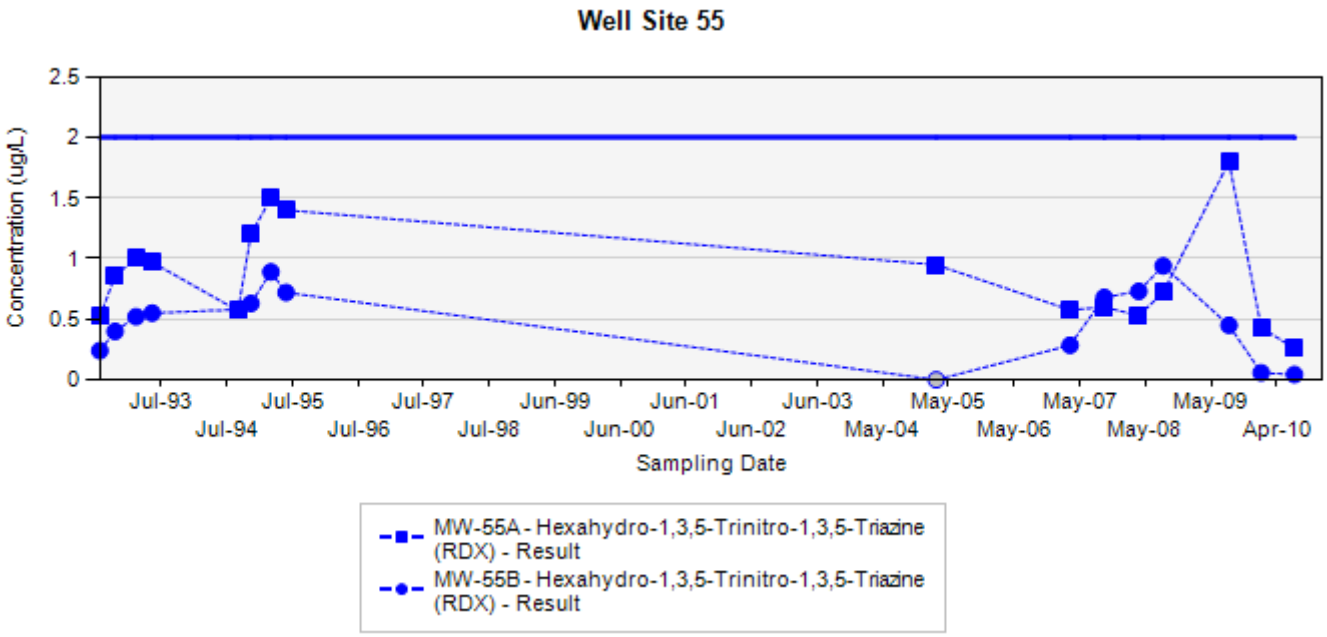

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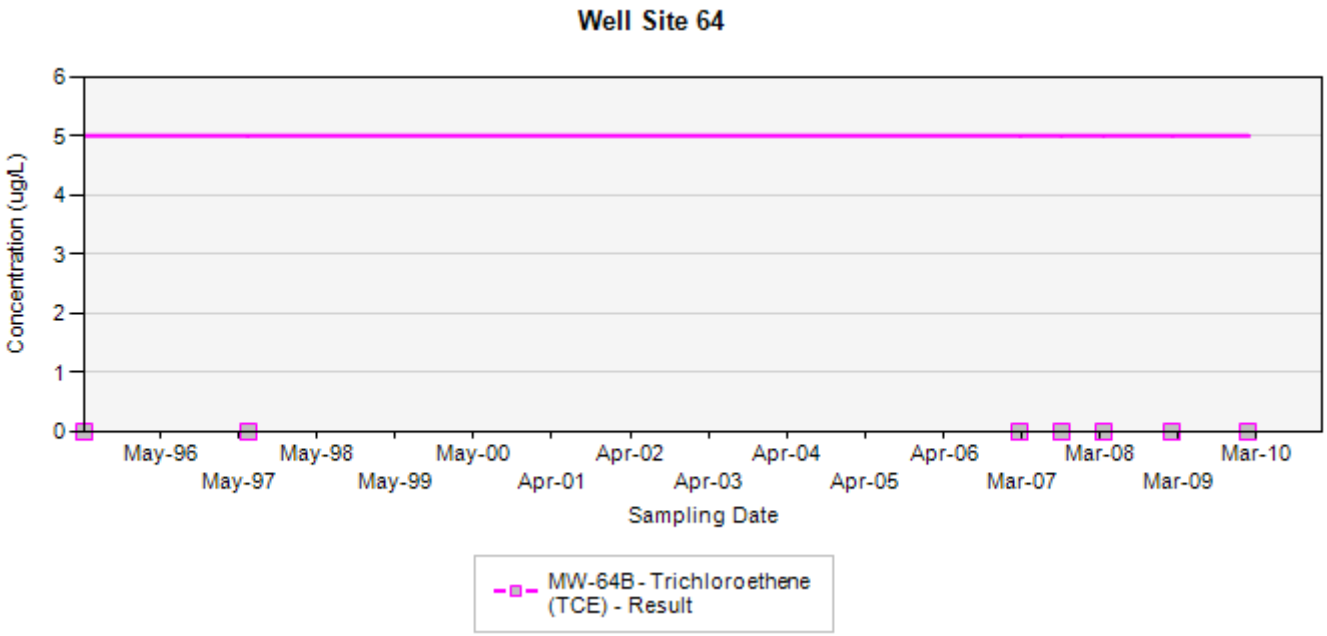

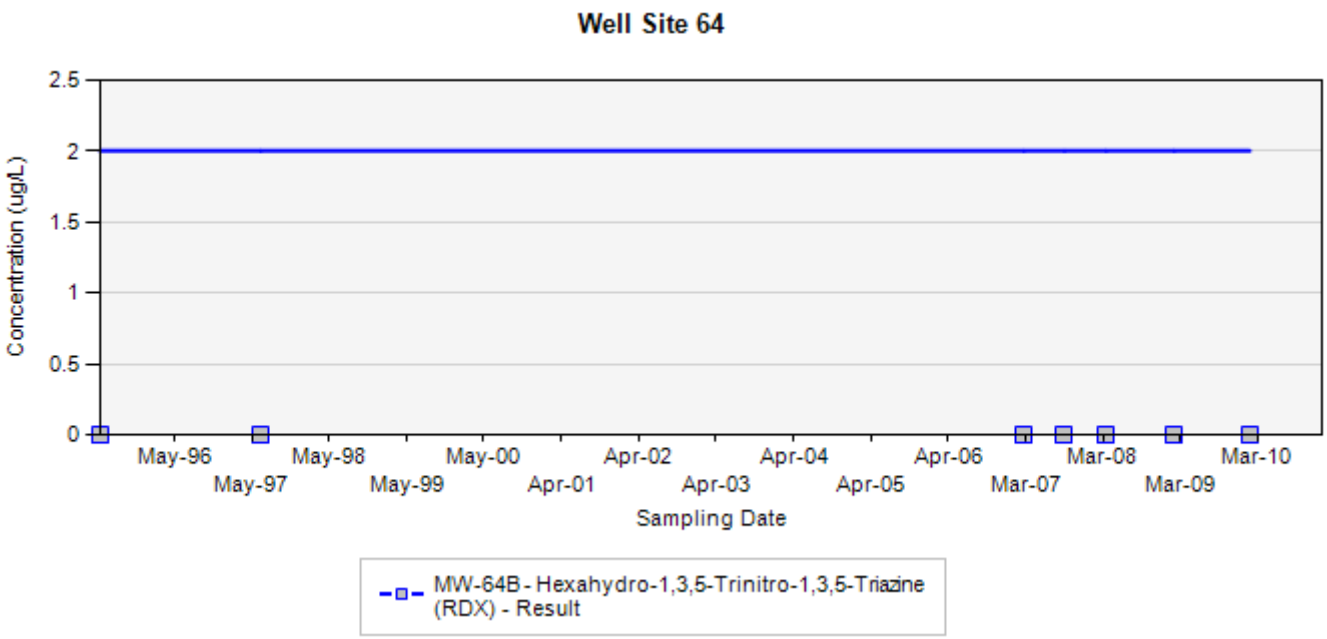

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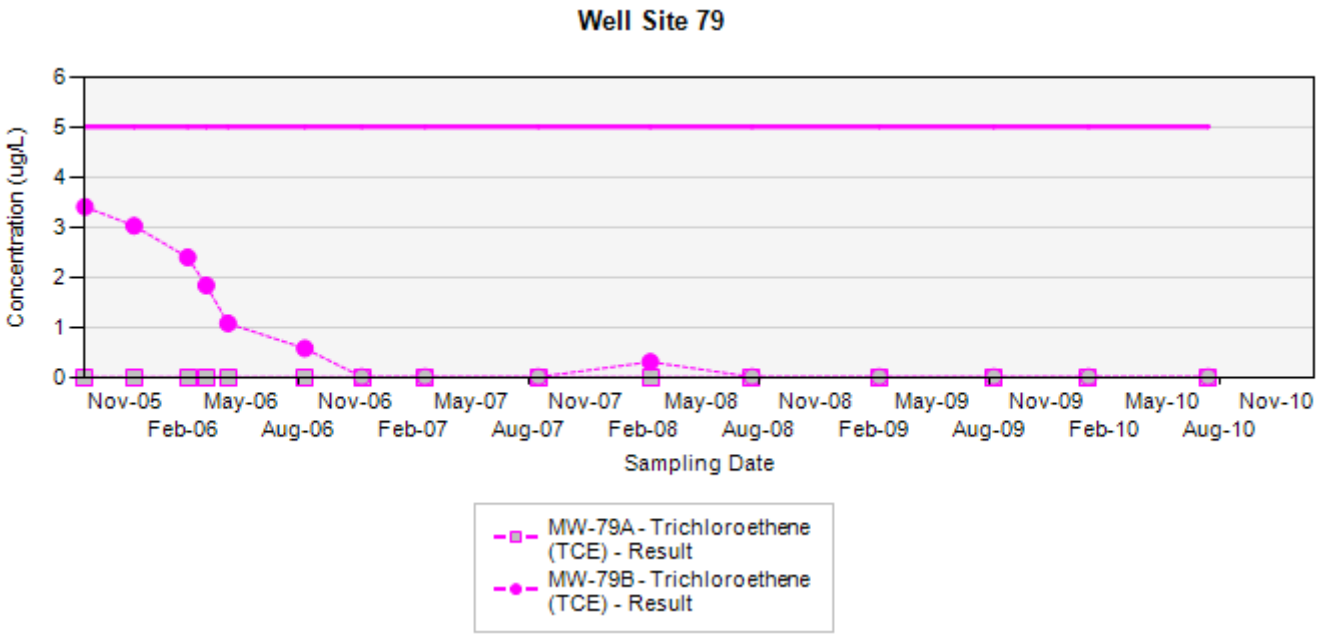

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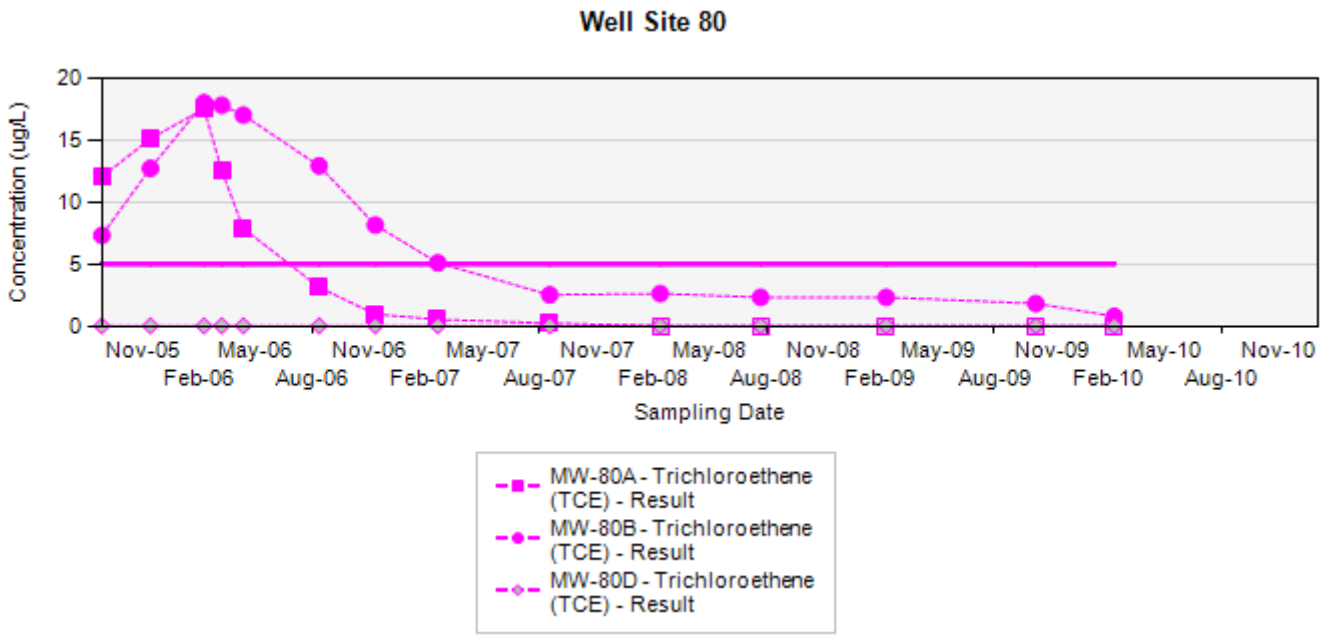

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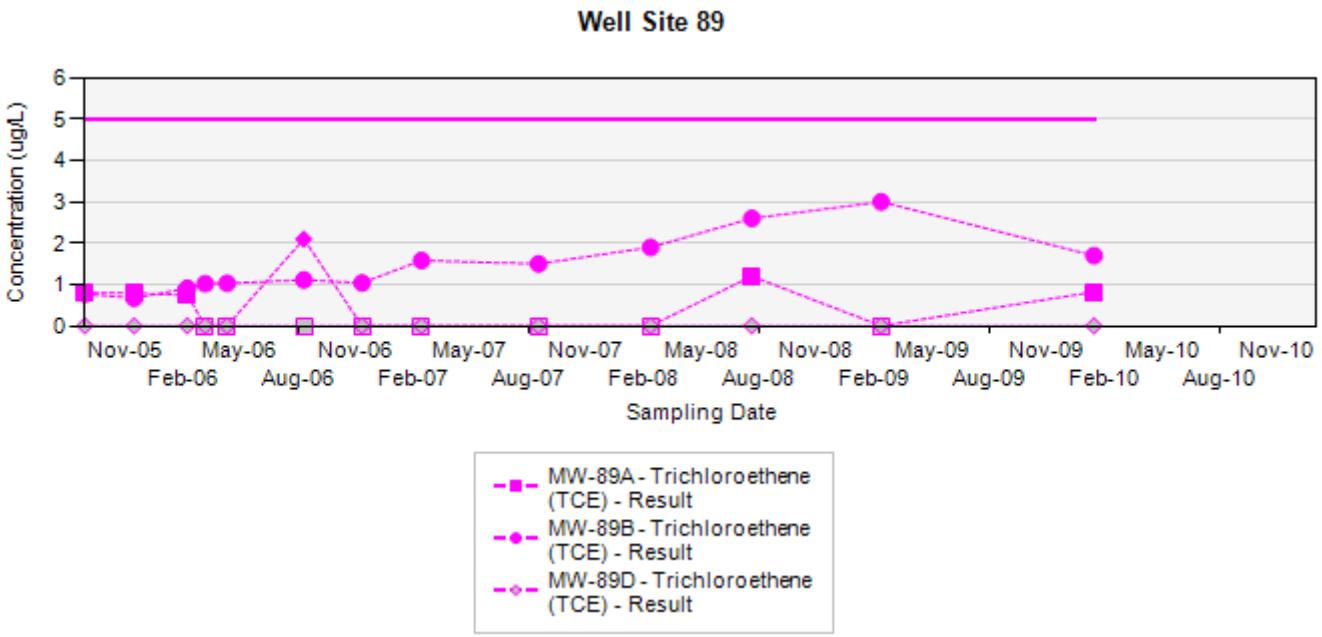

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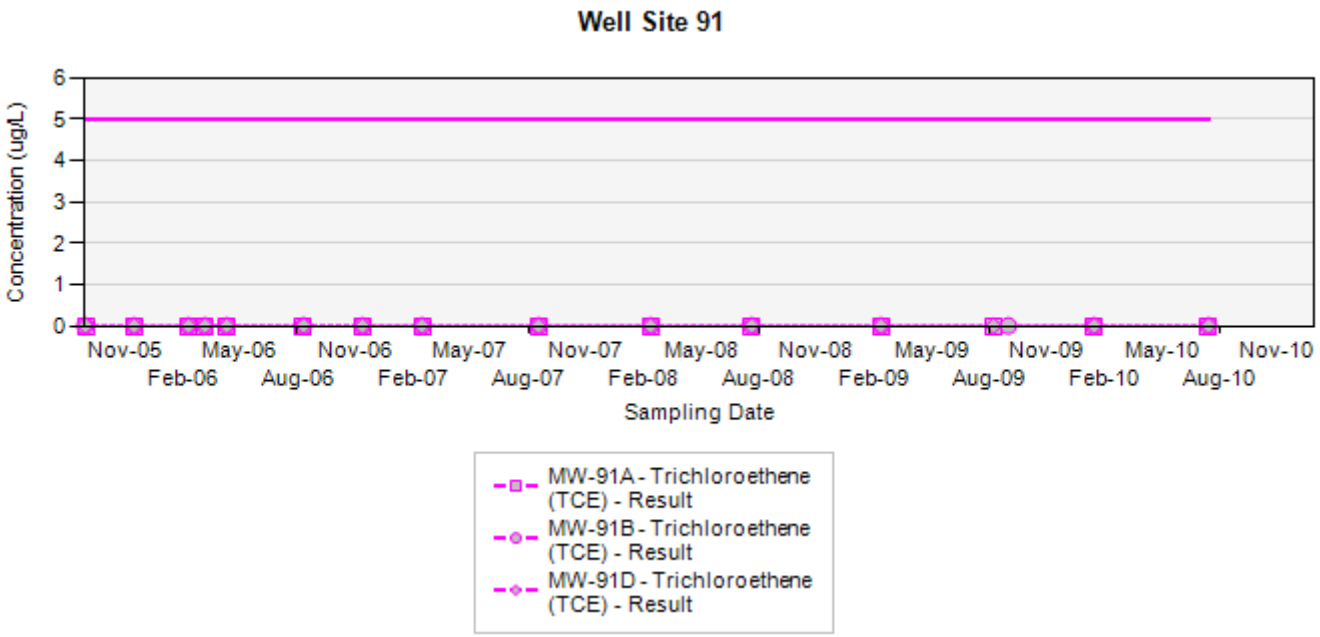

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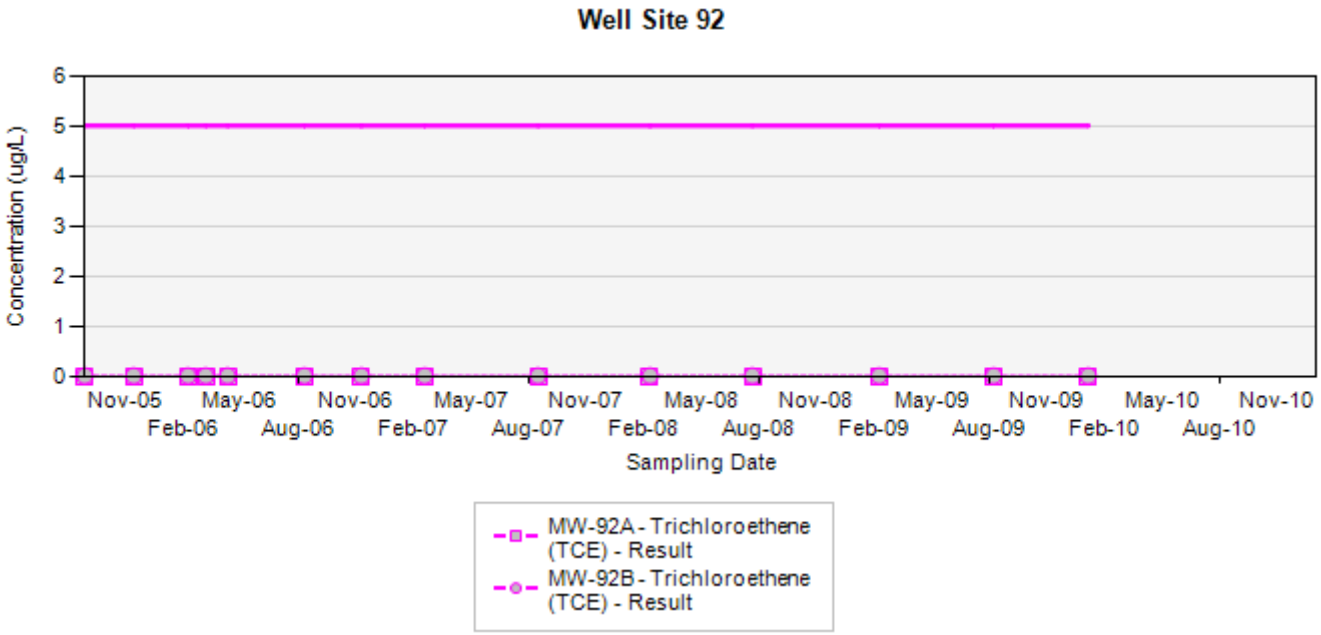

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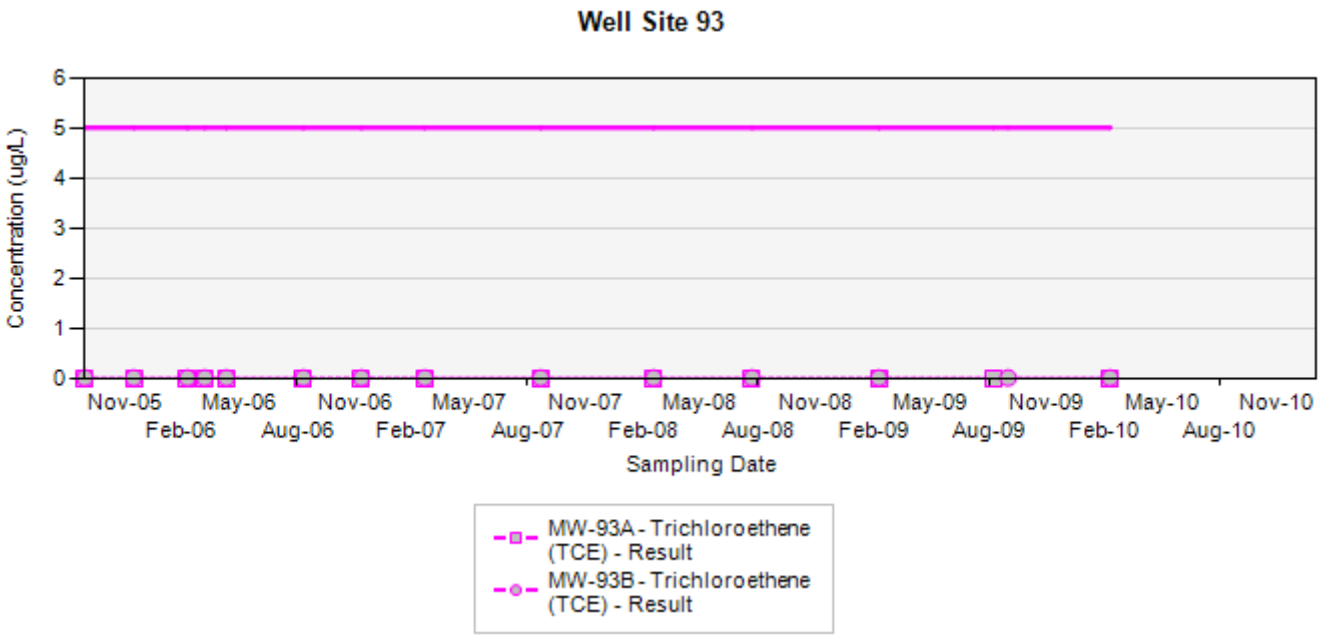

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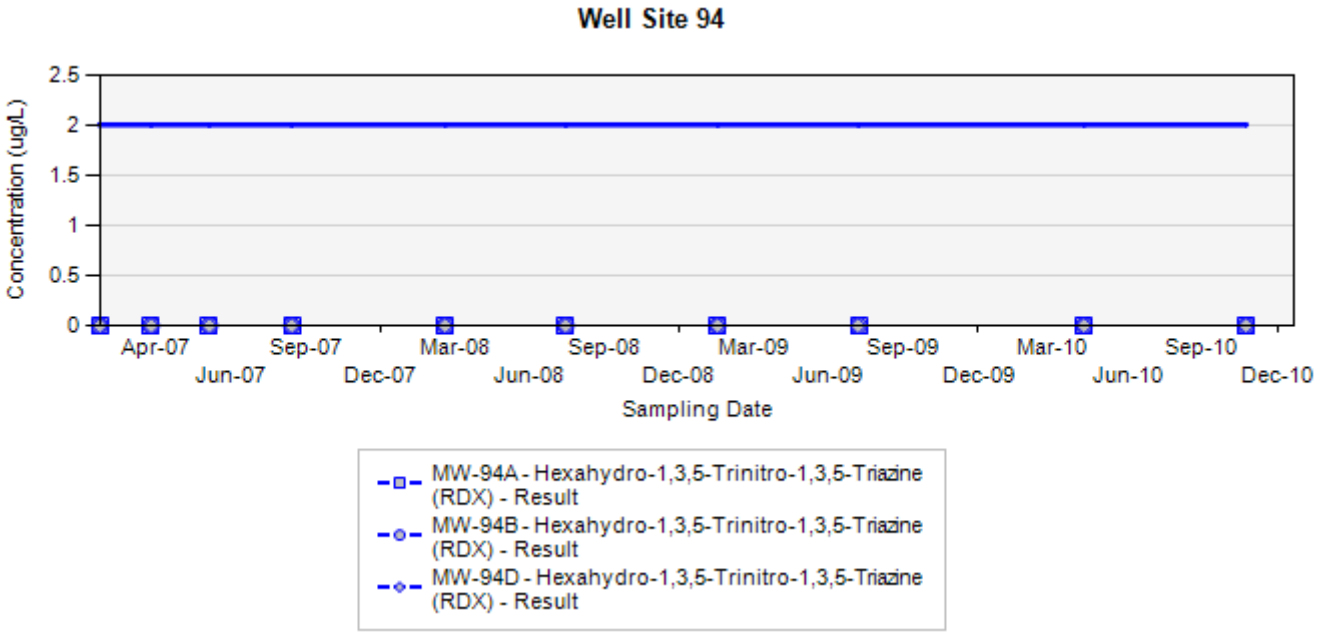

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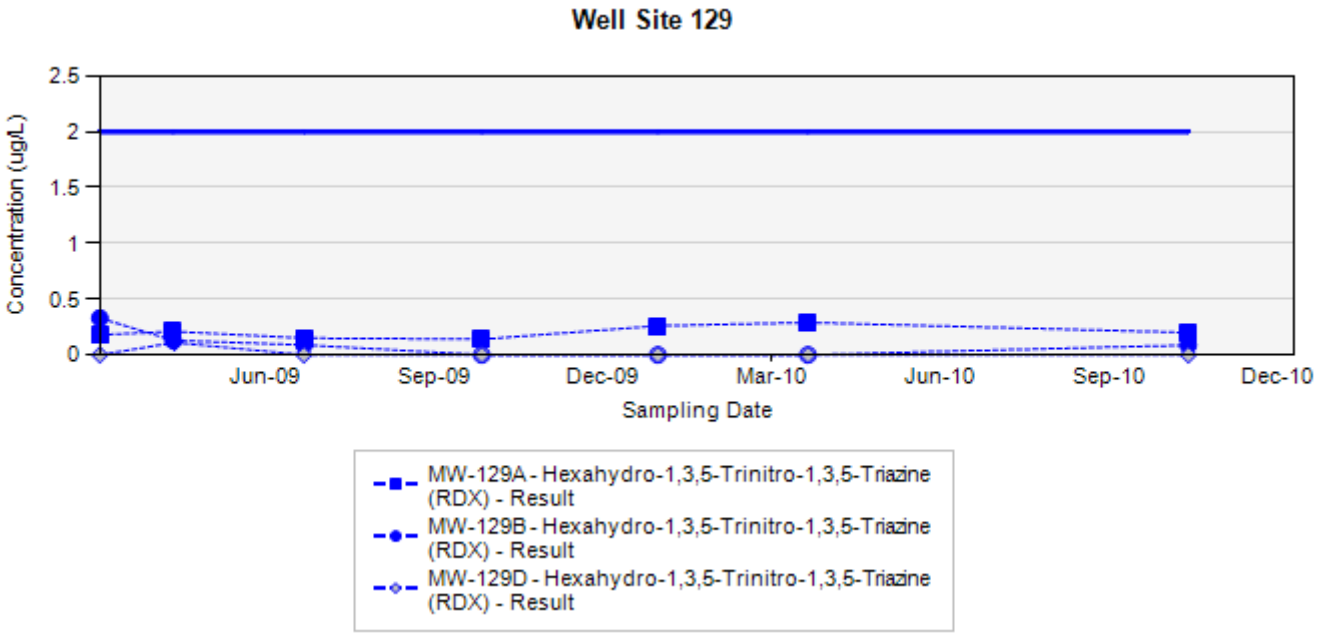

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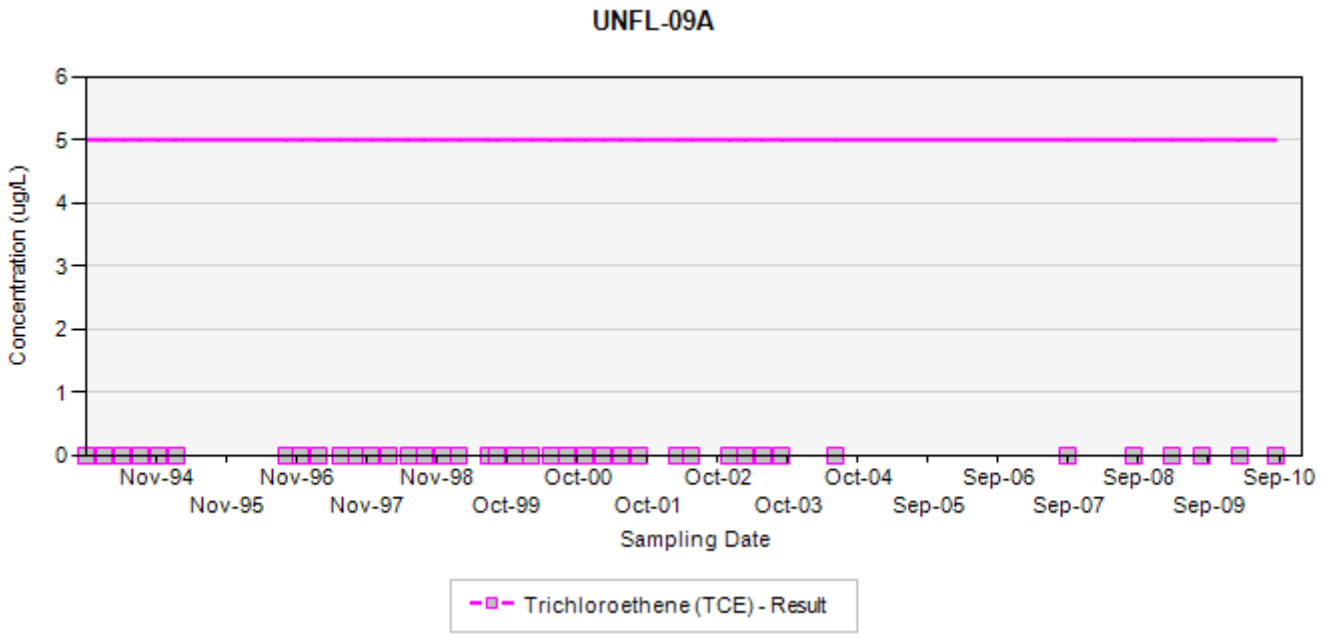
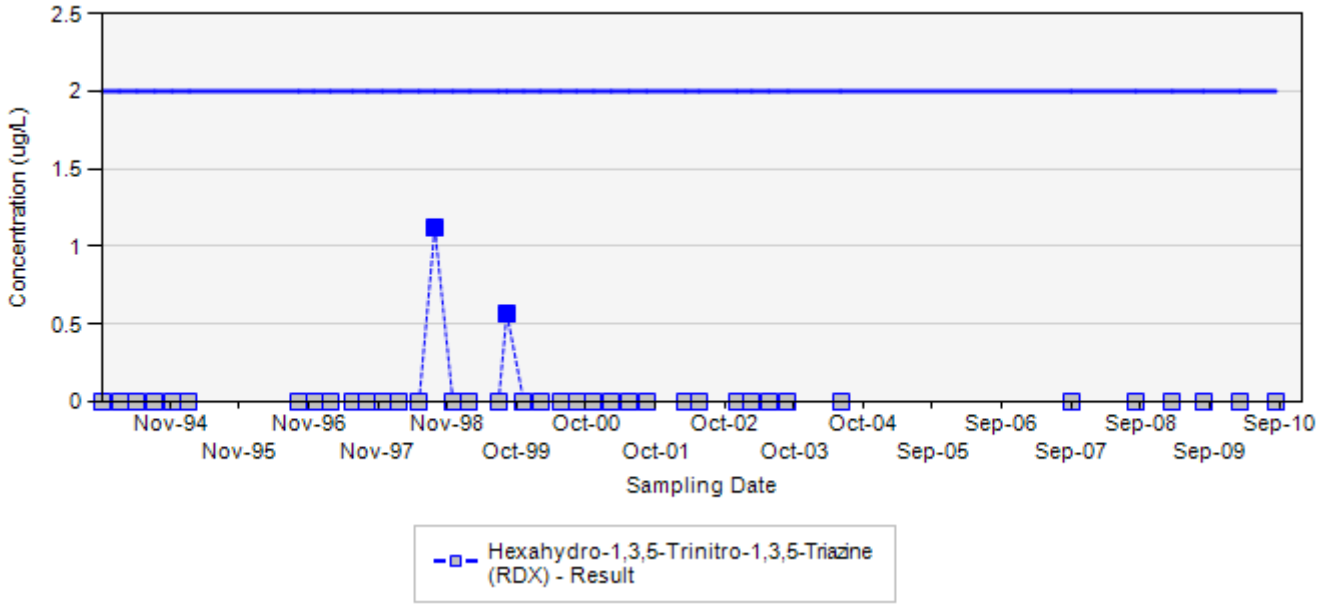
APPENDIX A.8

WATER SUPPLY WELL CONCENTRATION TREND CHARTS

Concentration Trend Charts for Water Supply Wells





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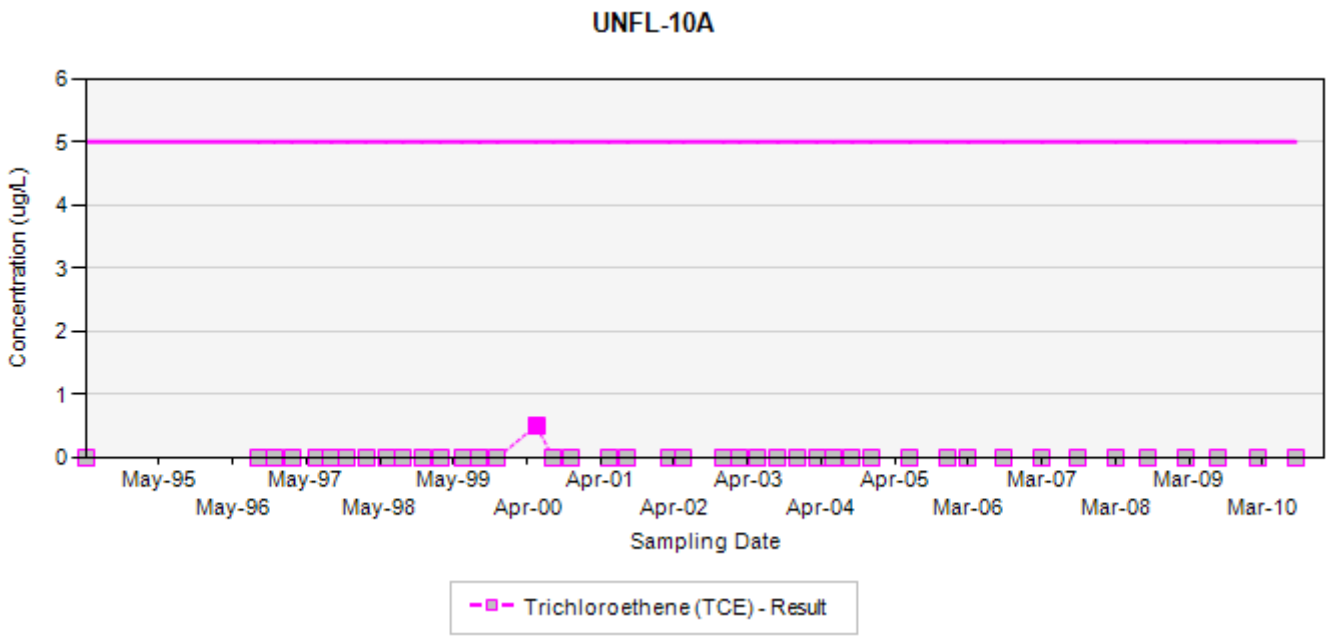

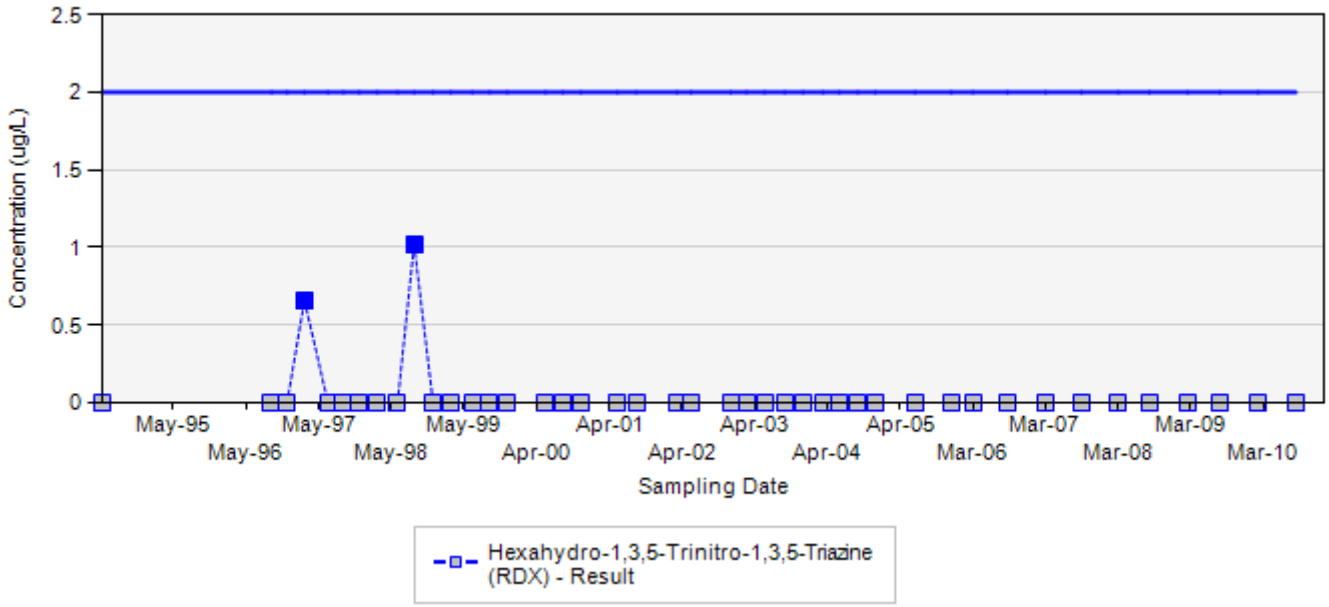

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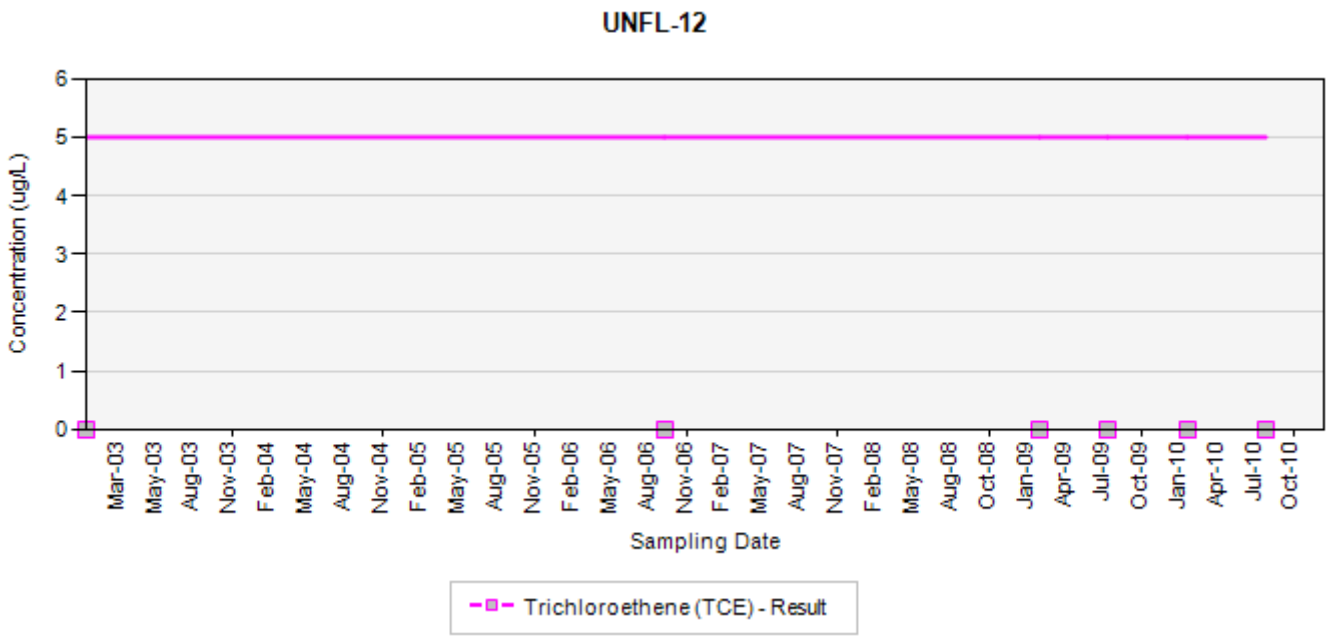

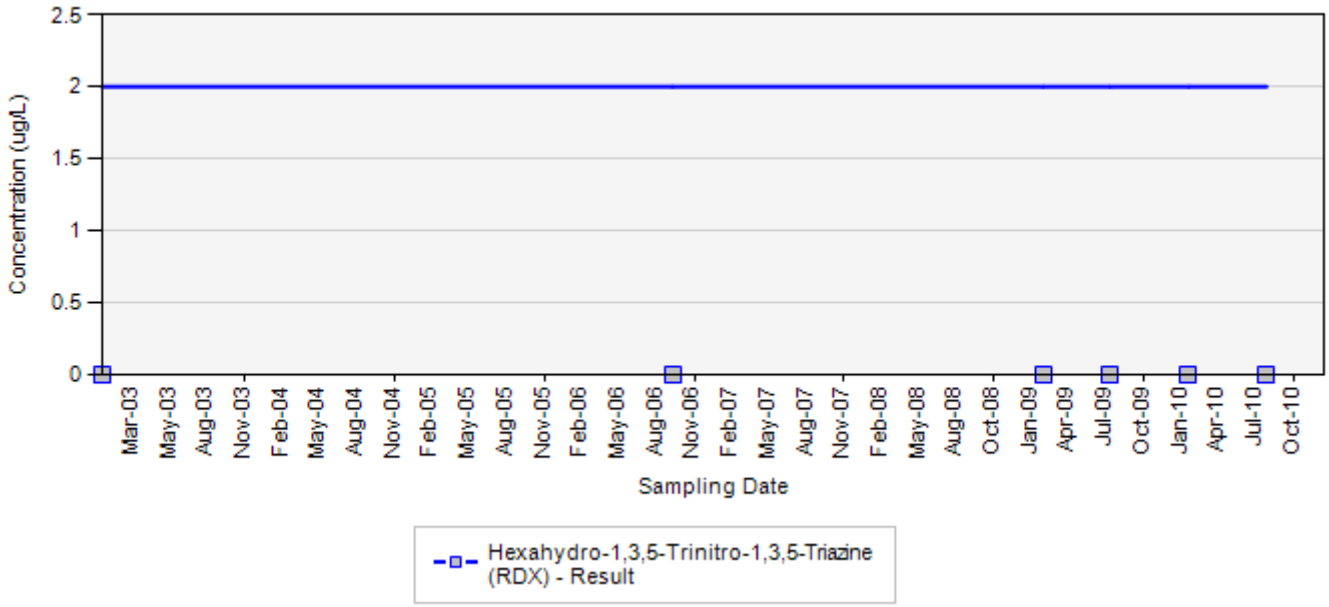

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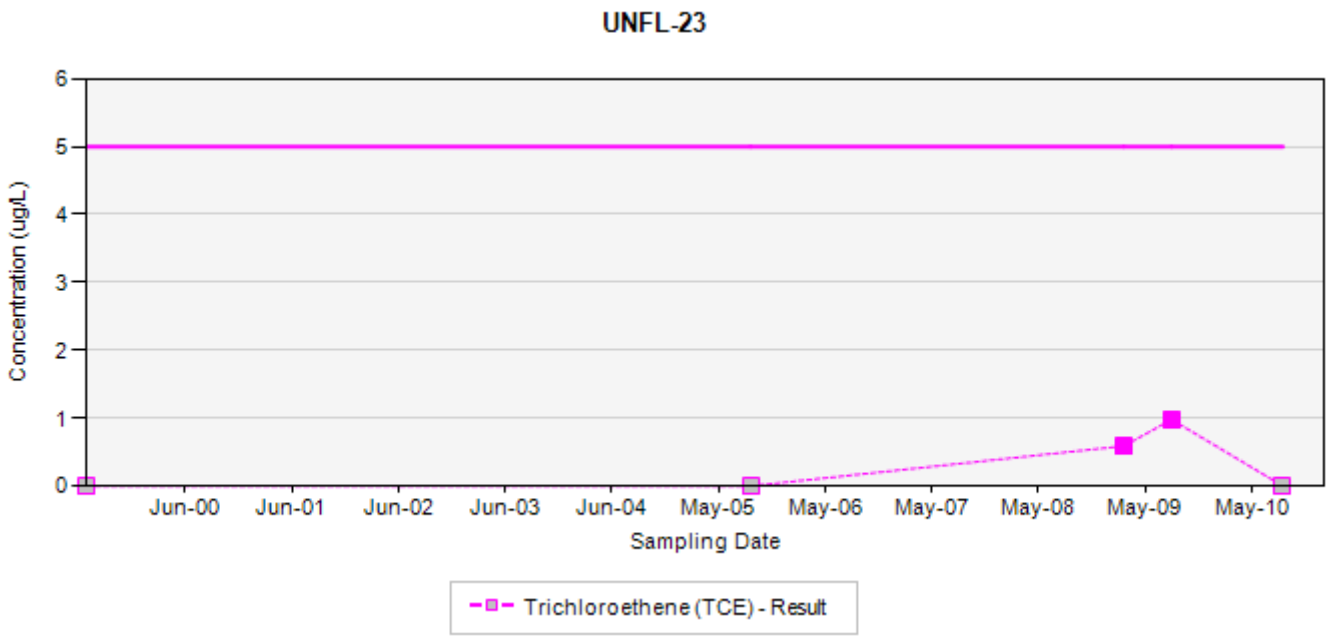

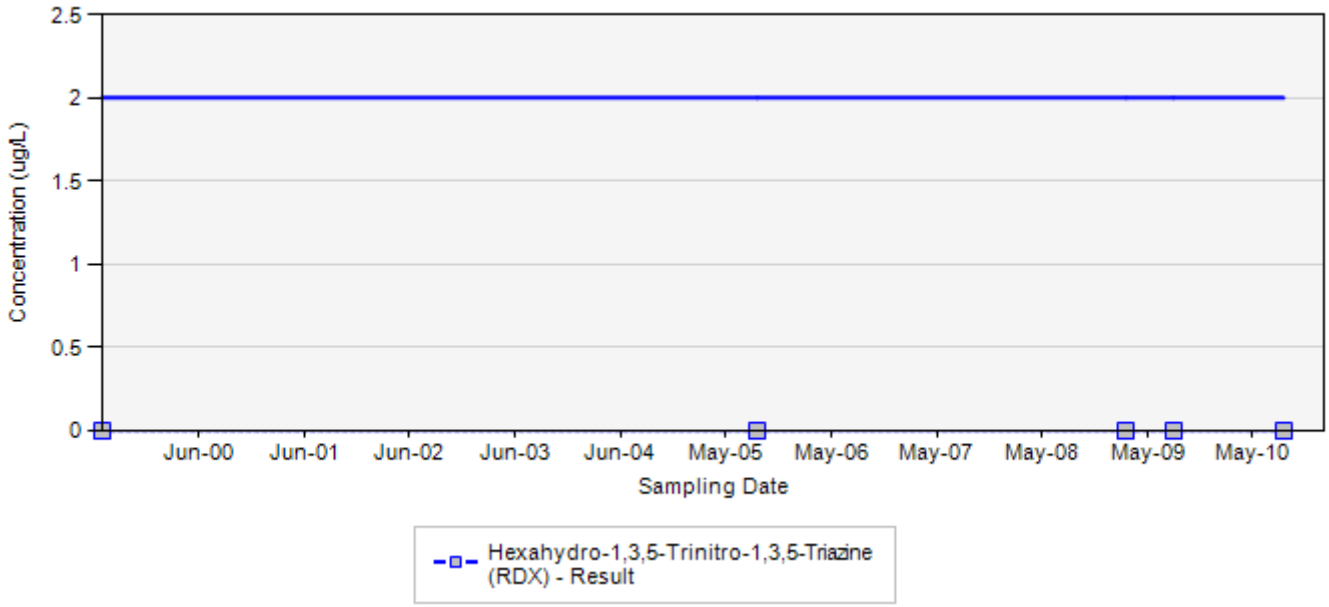

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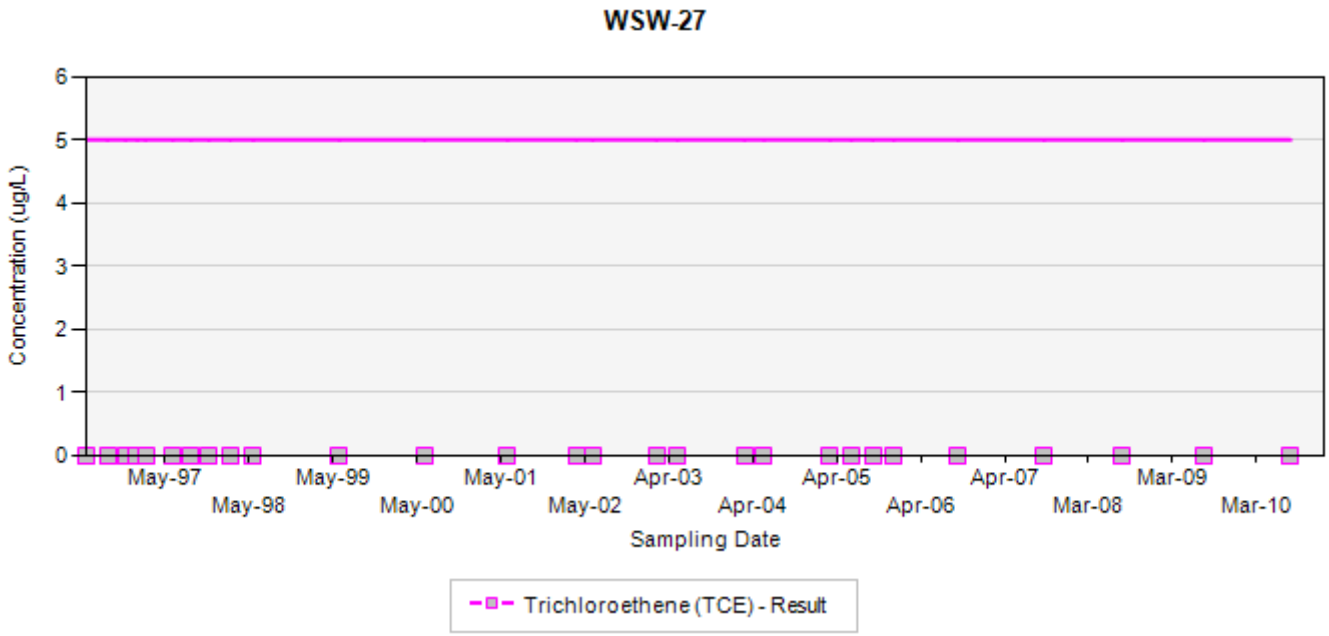

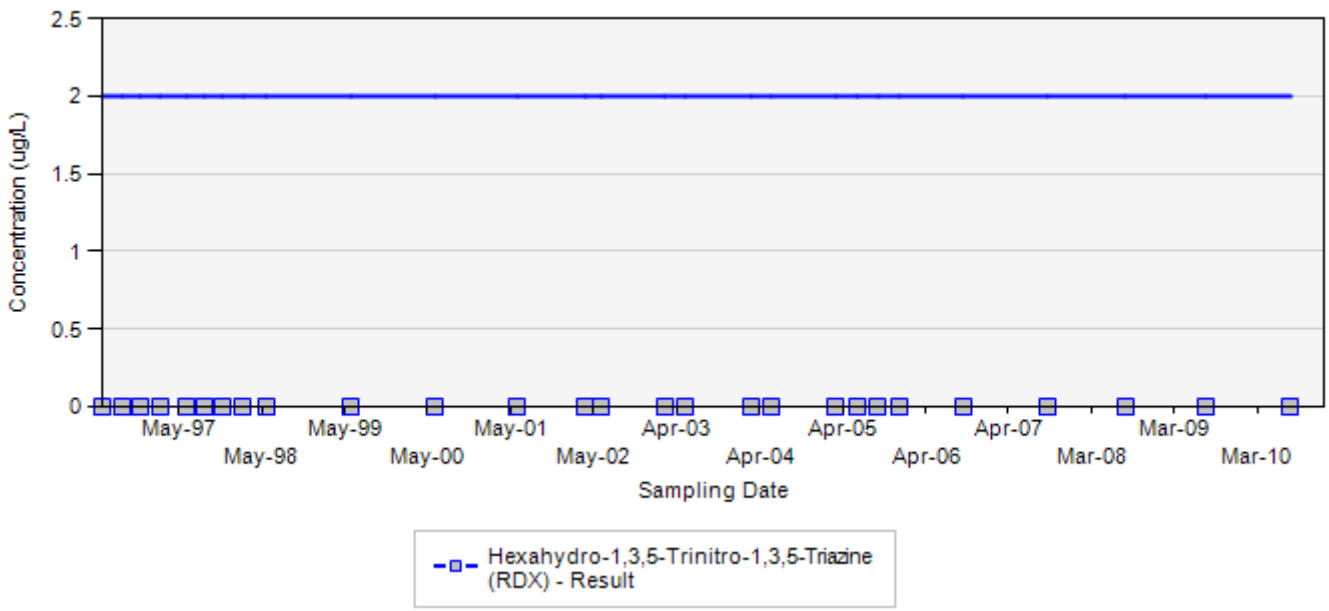

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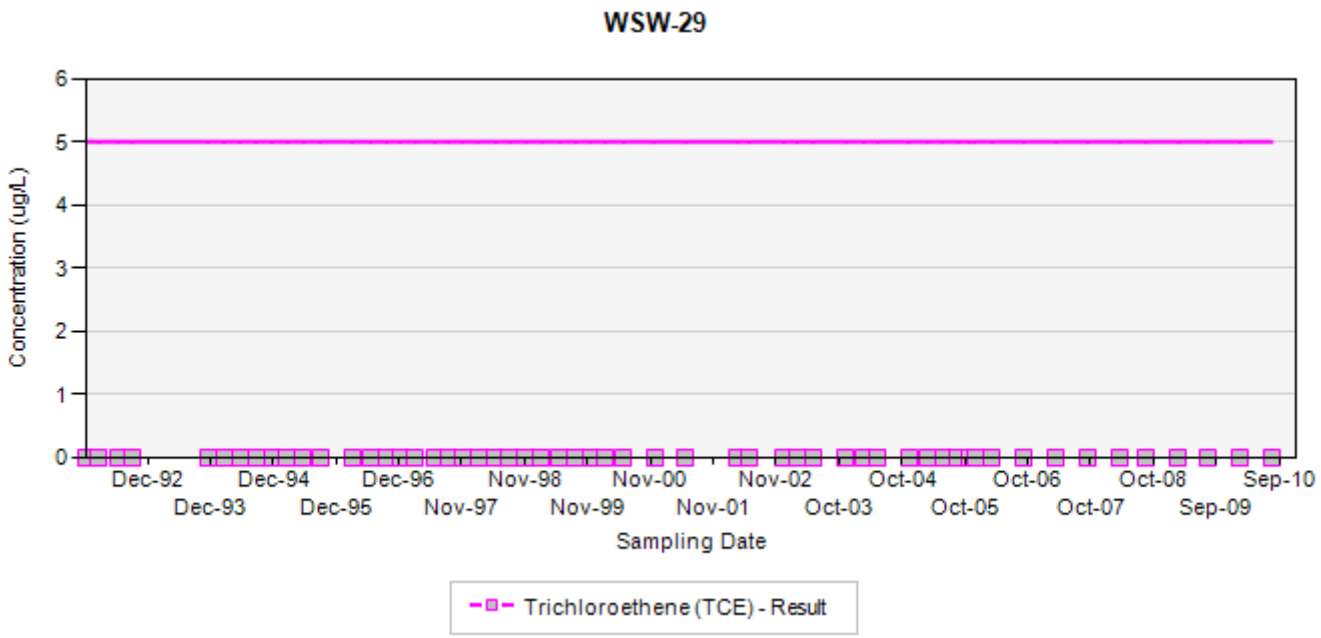

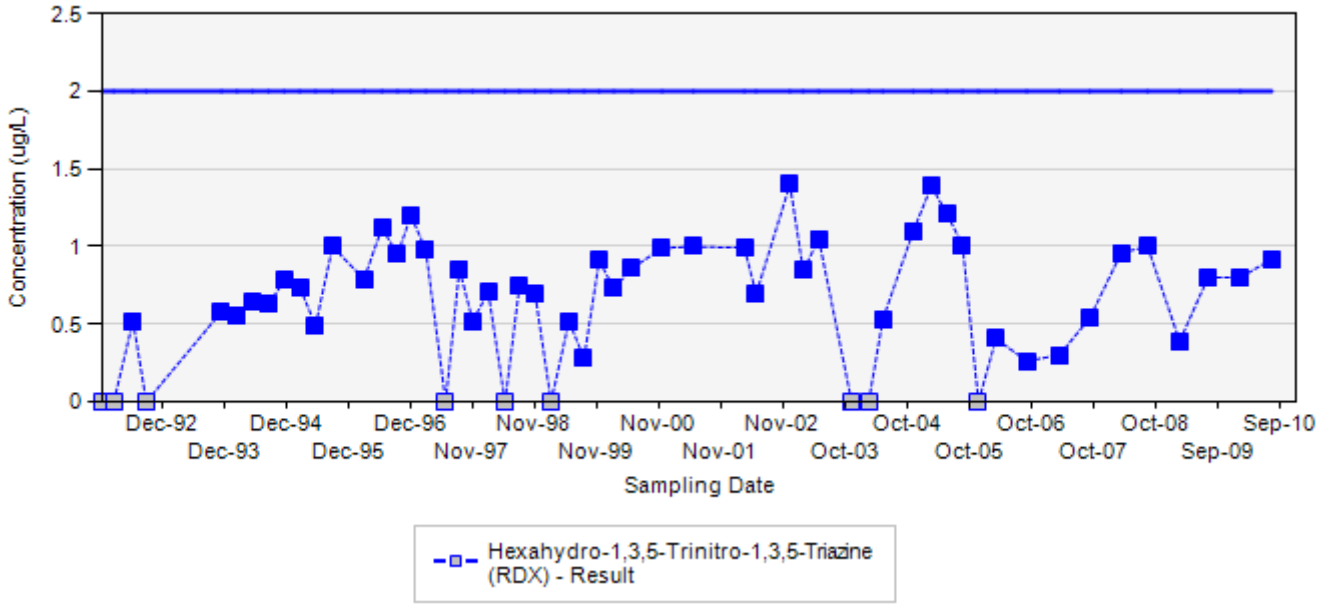

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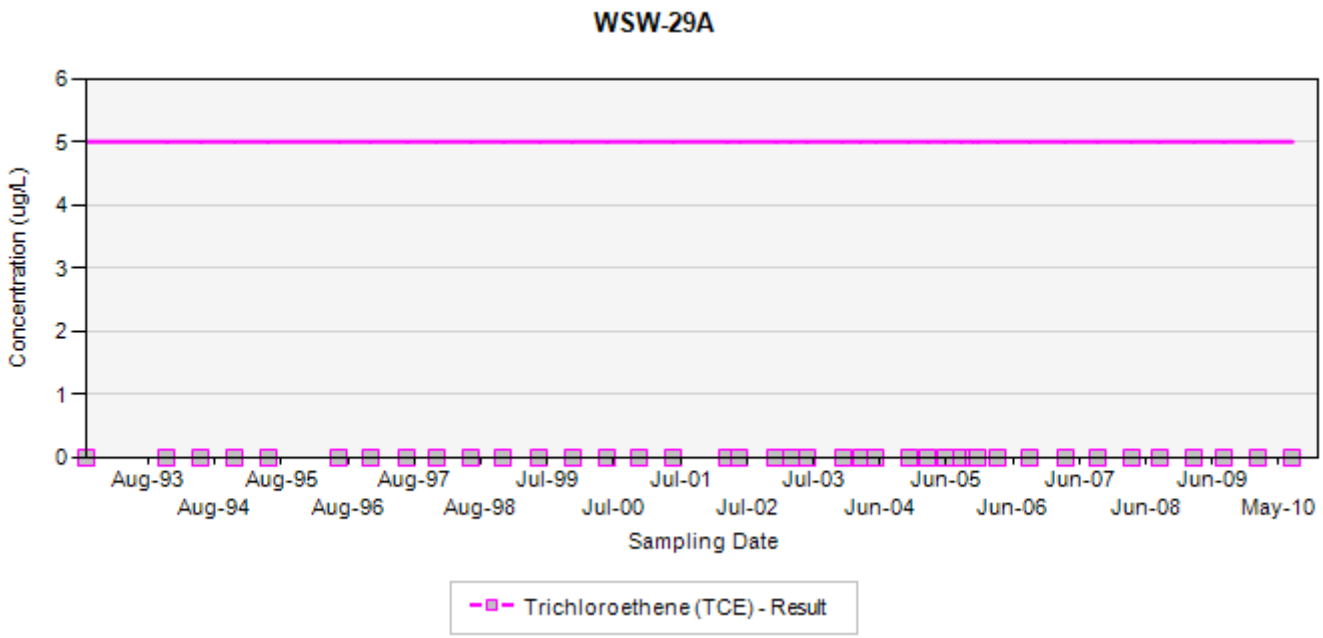

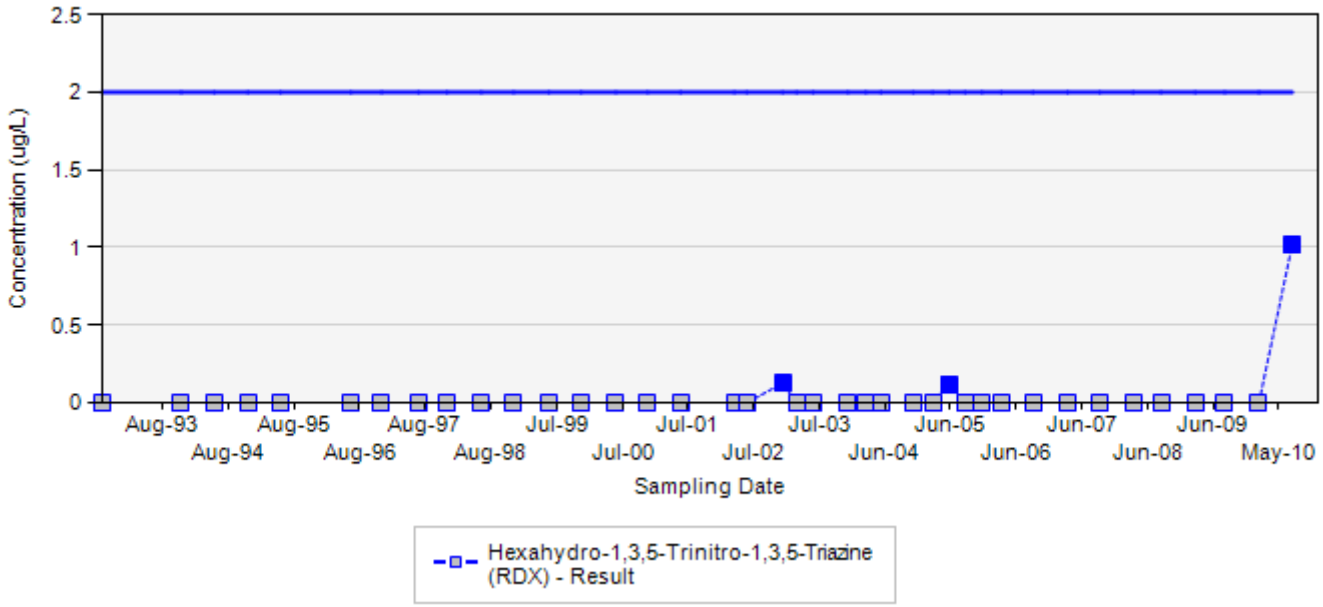

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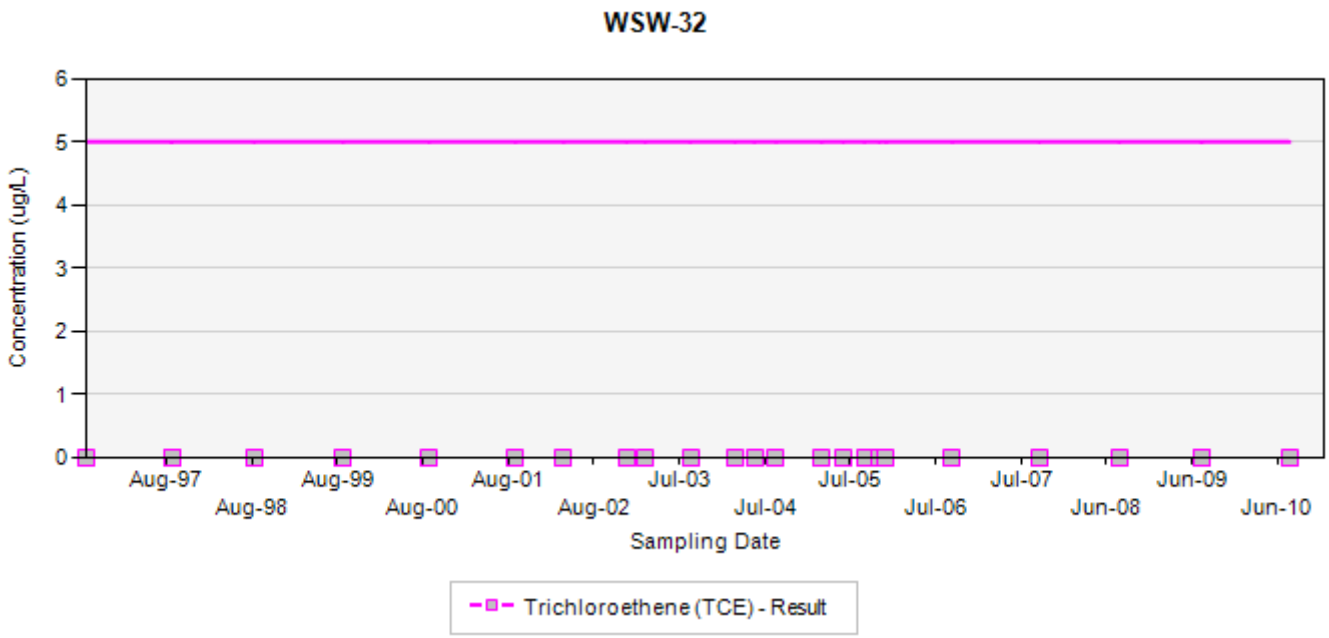

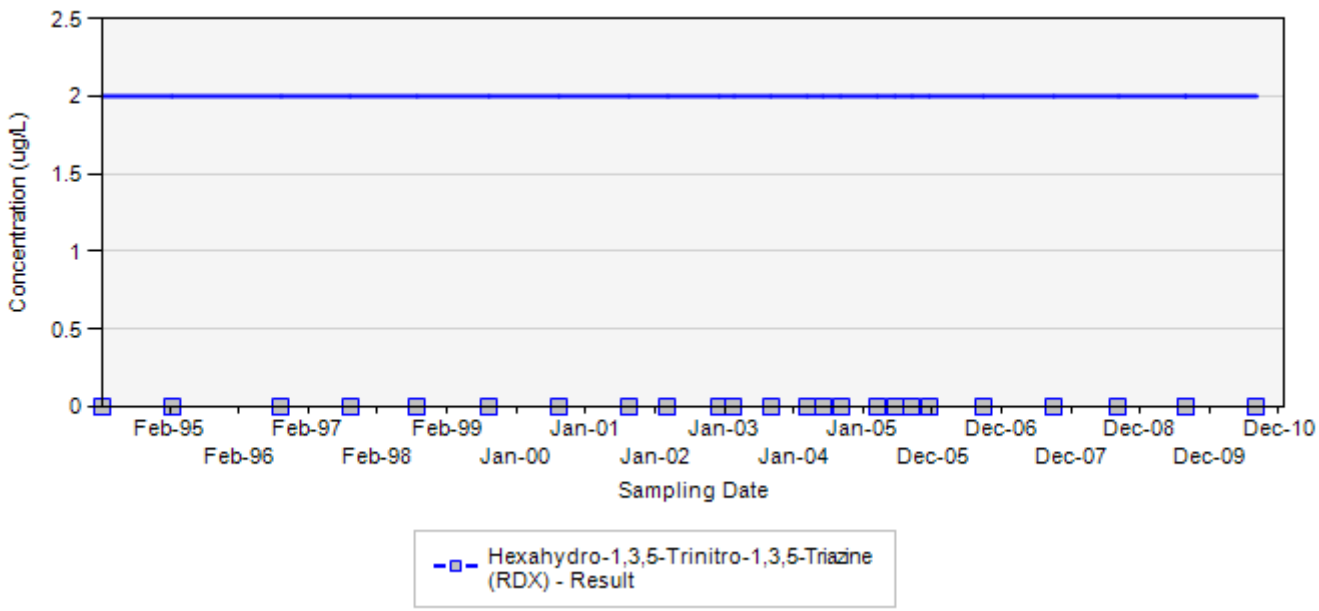

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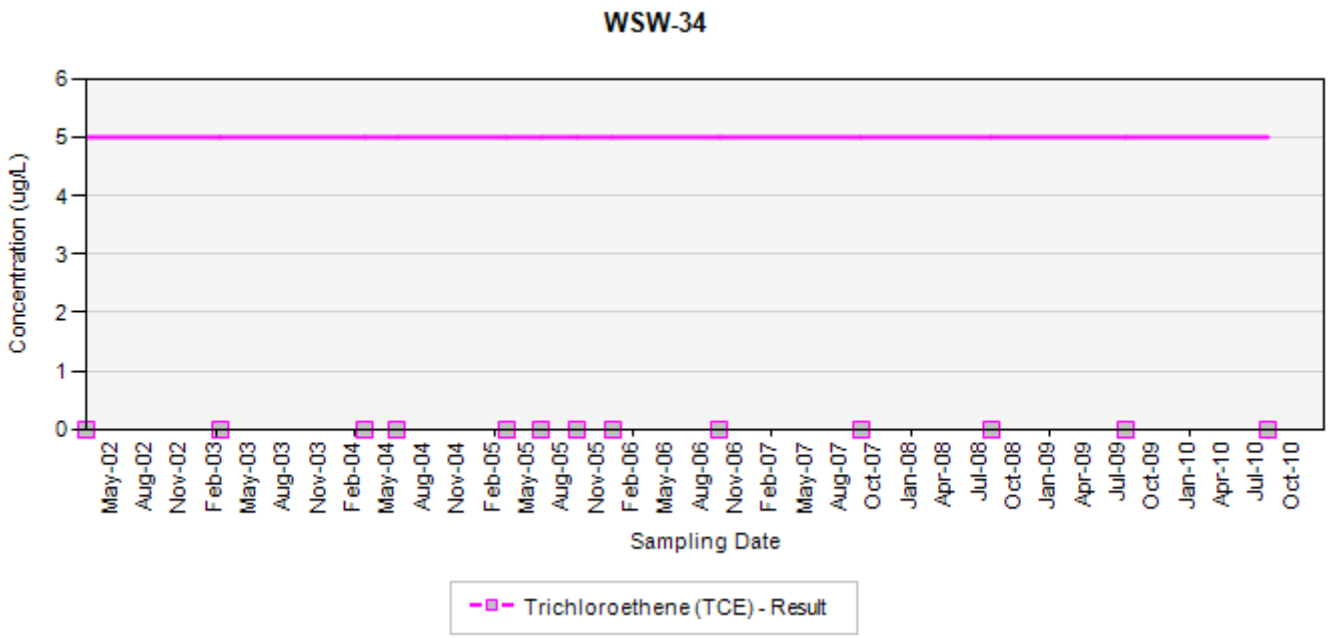

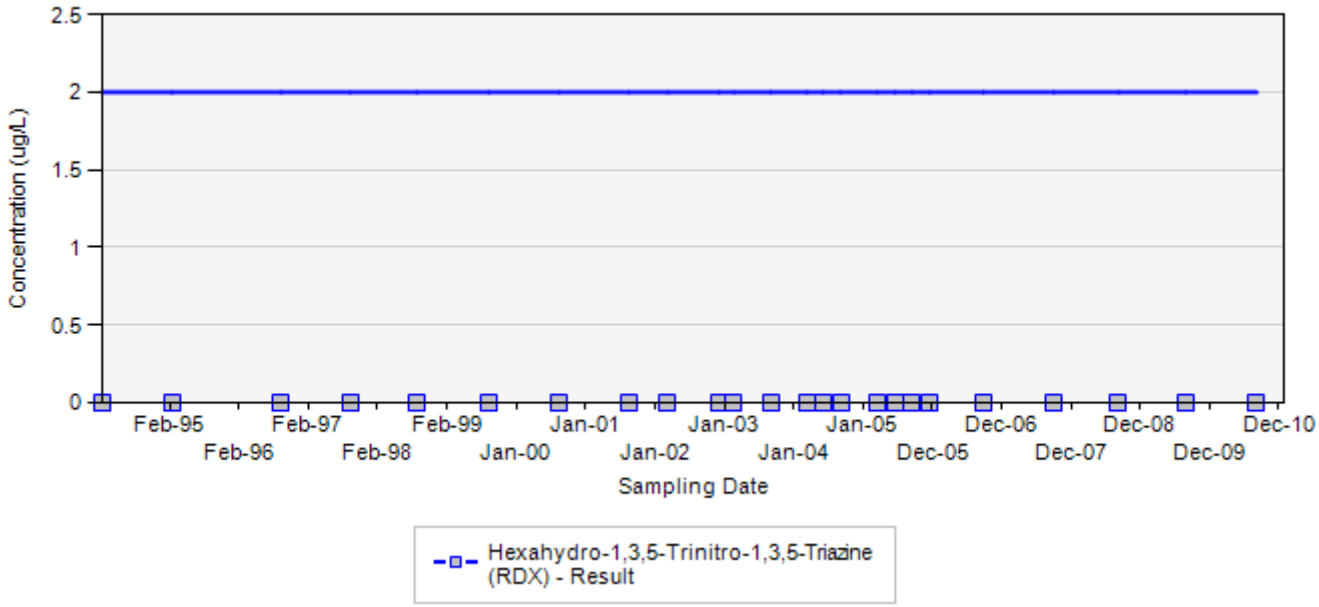

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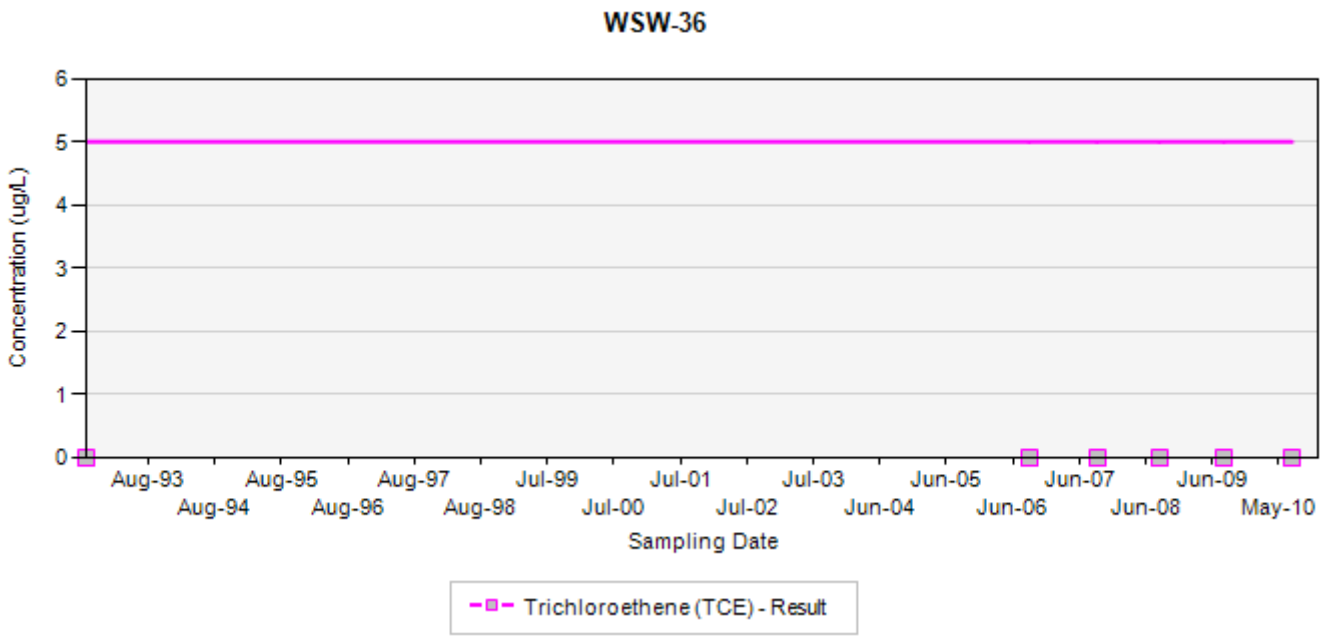

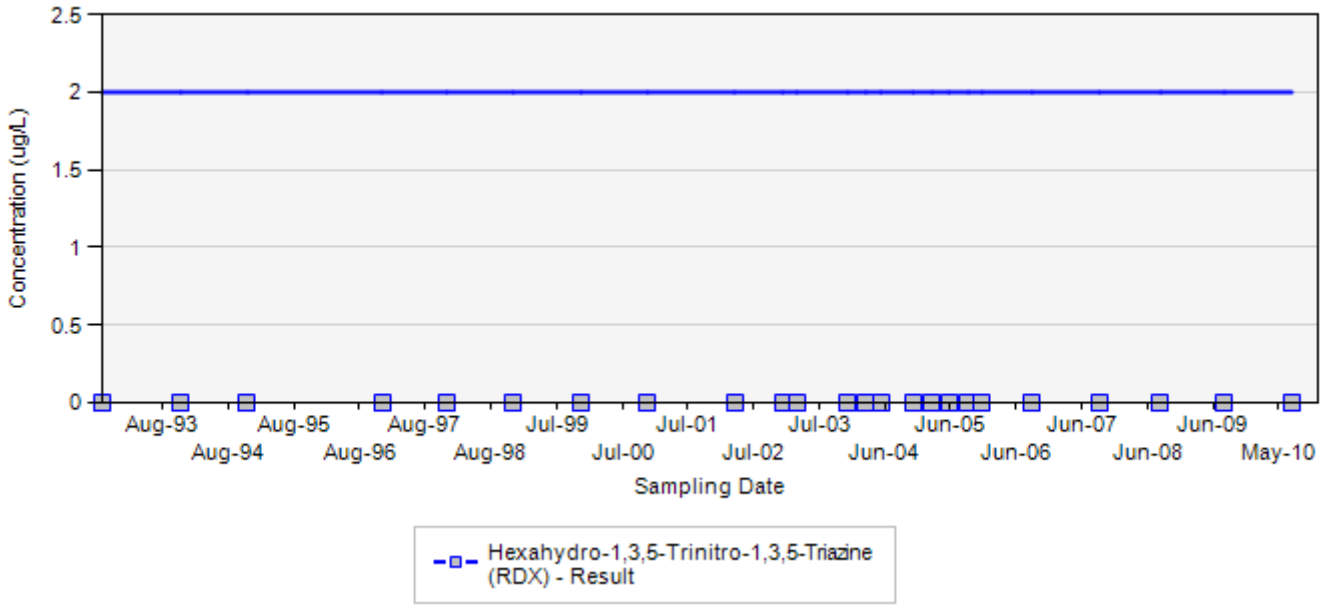

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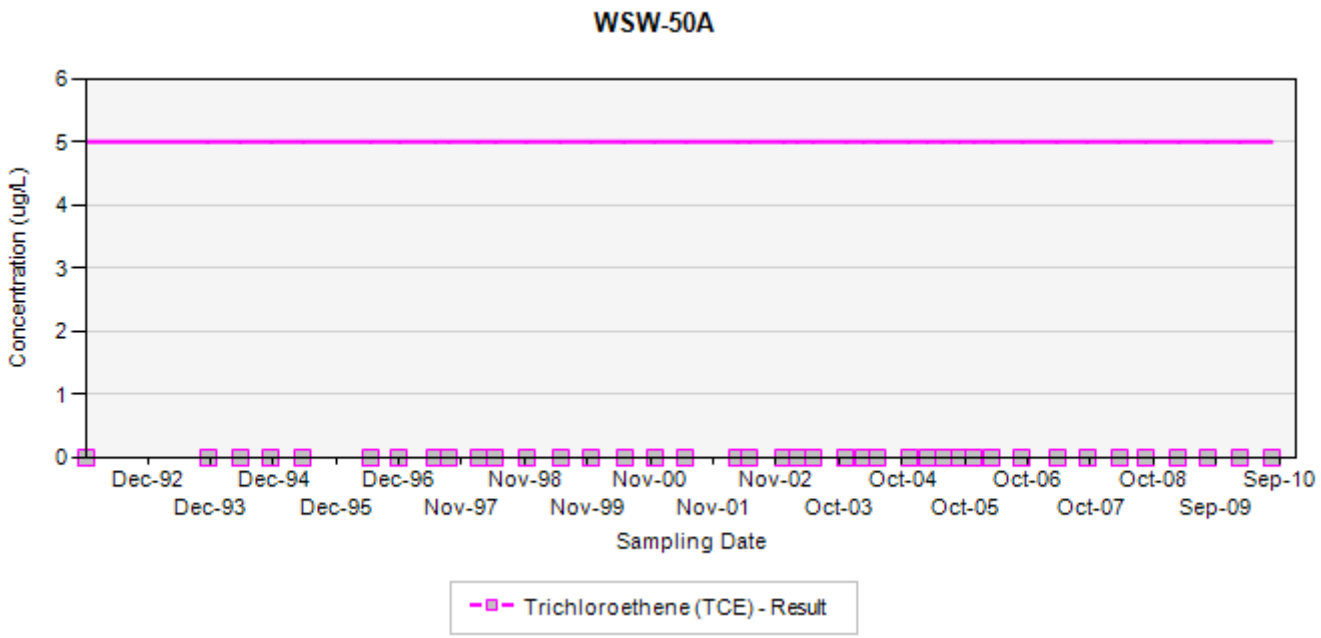

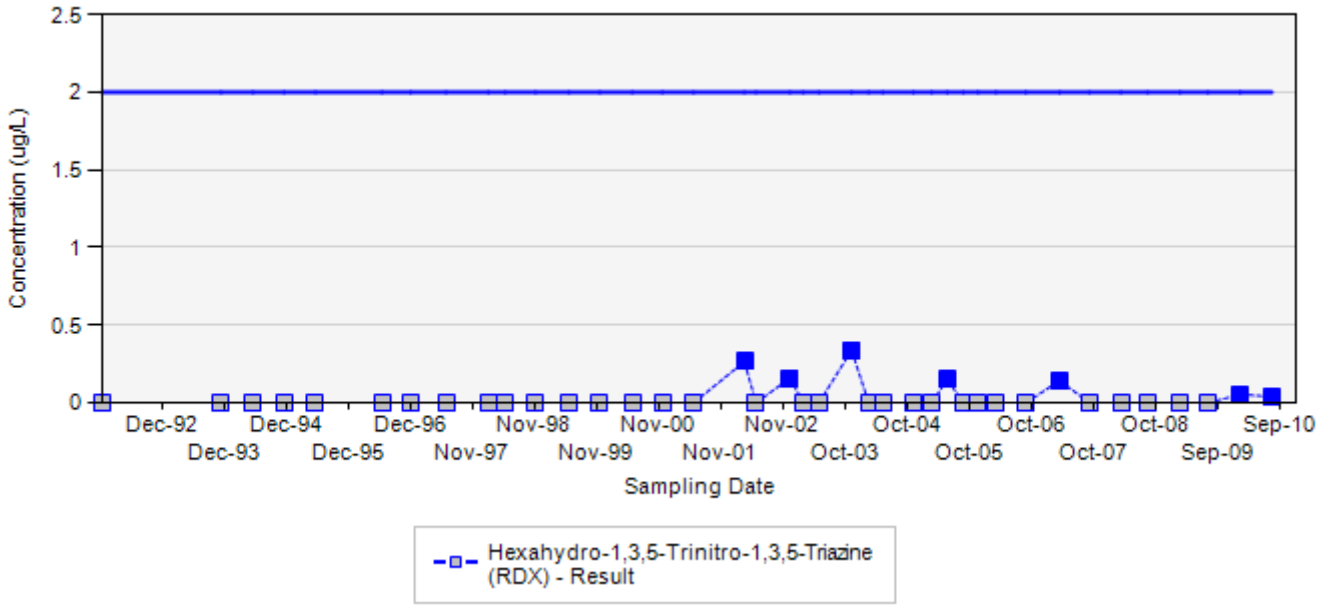

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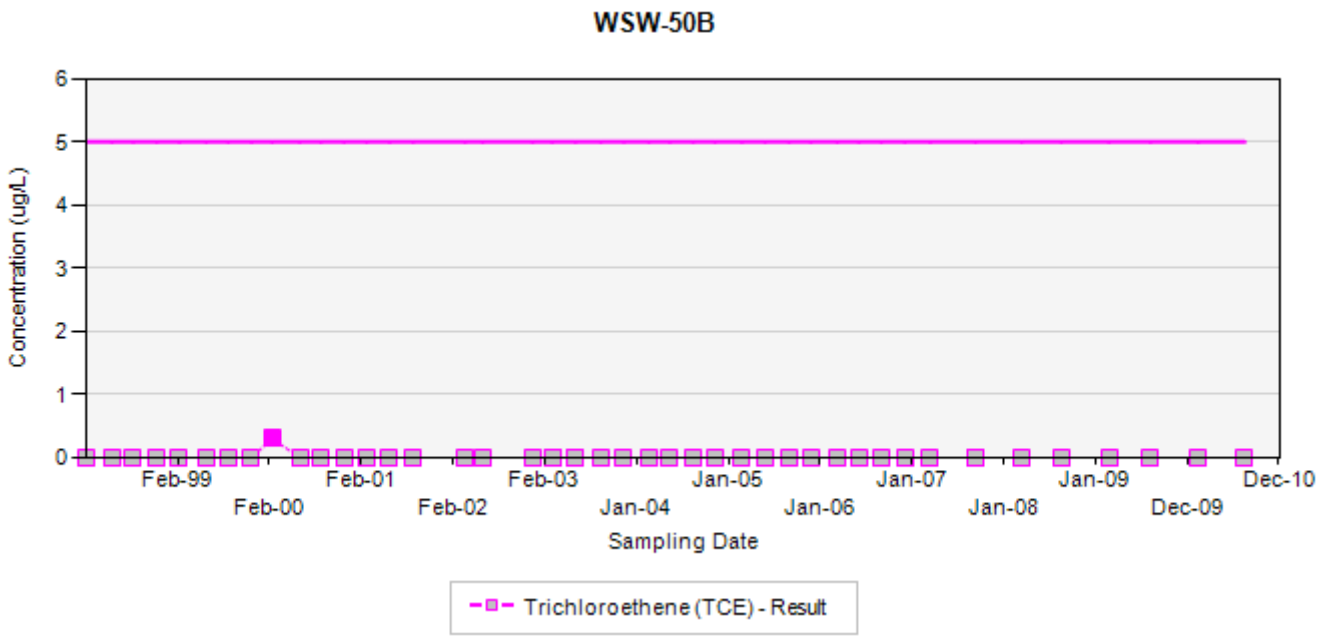

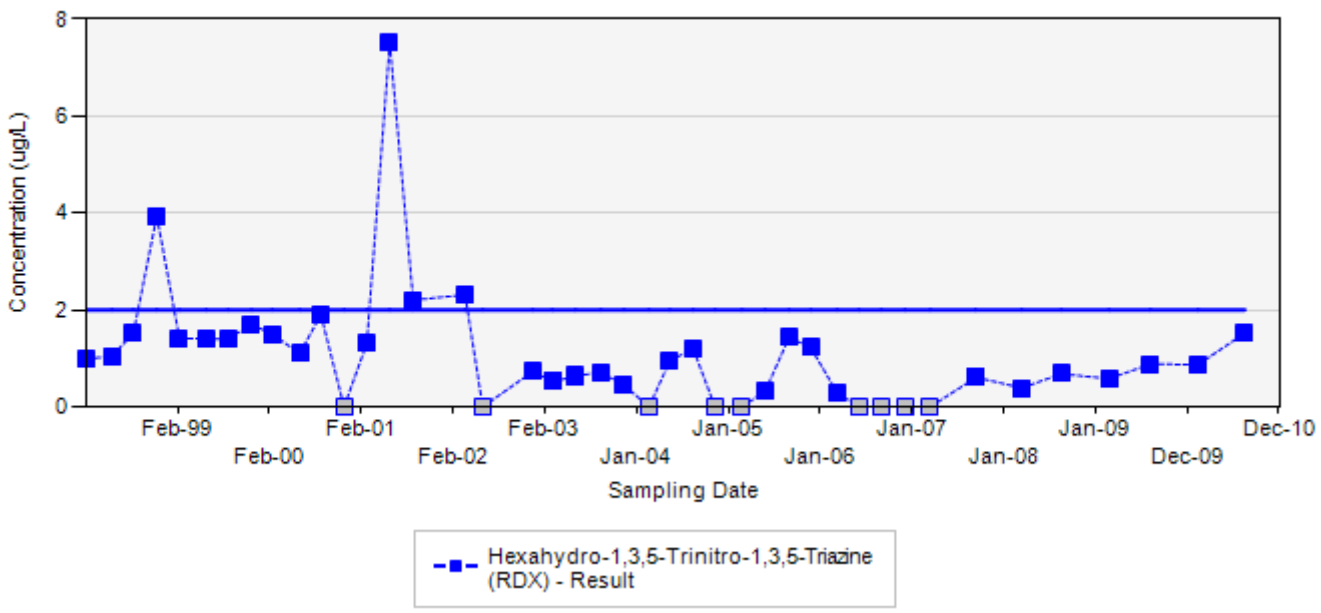

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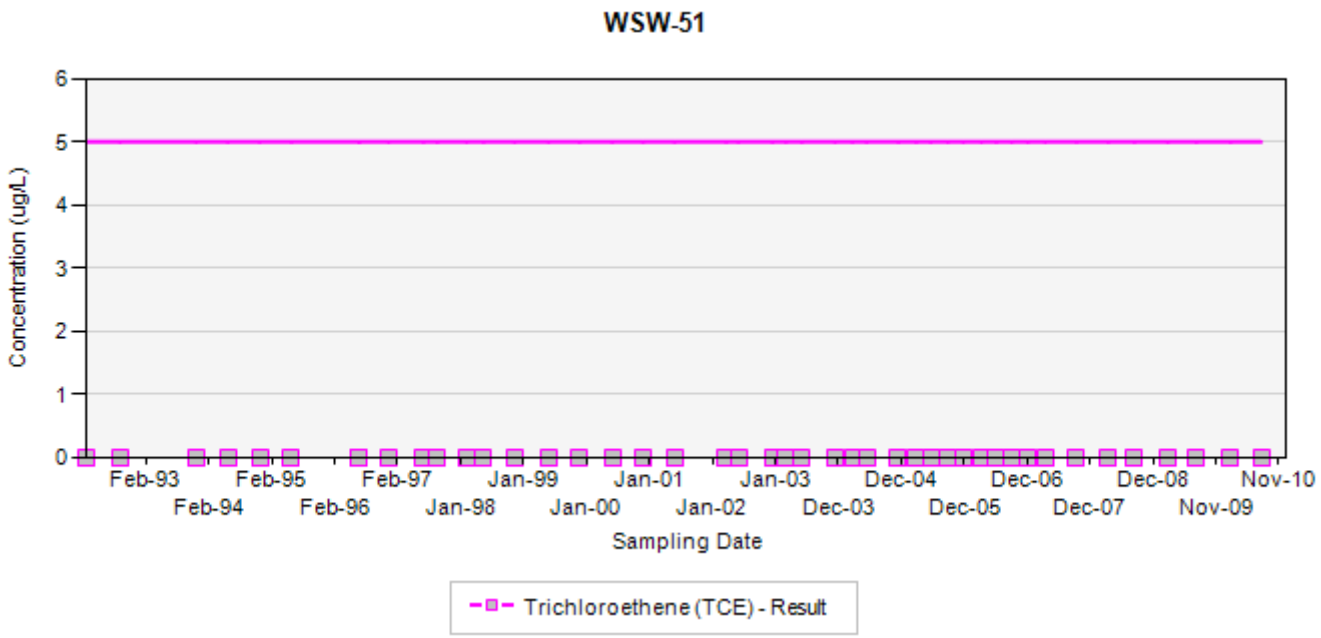

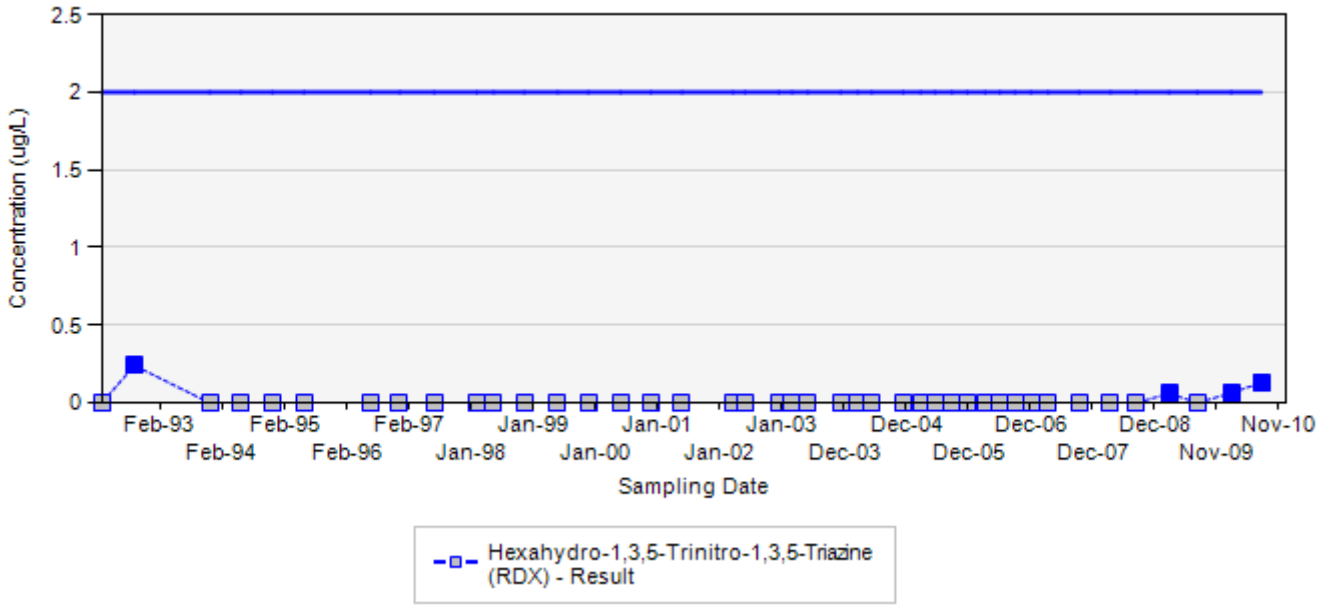

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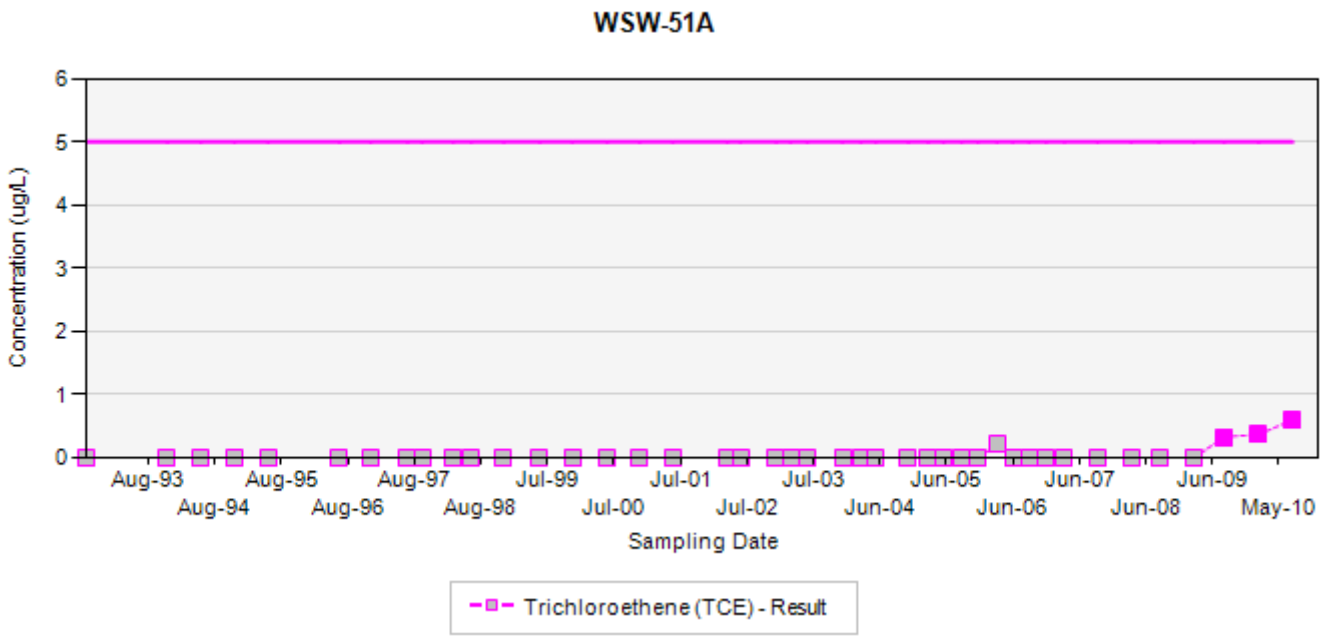

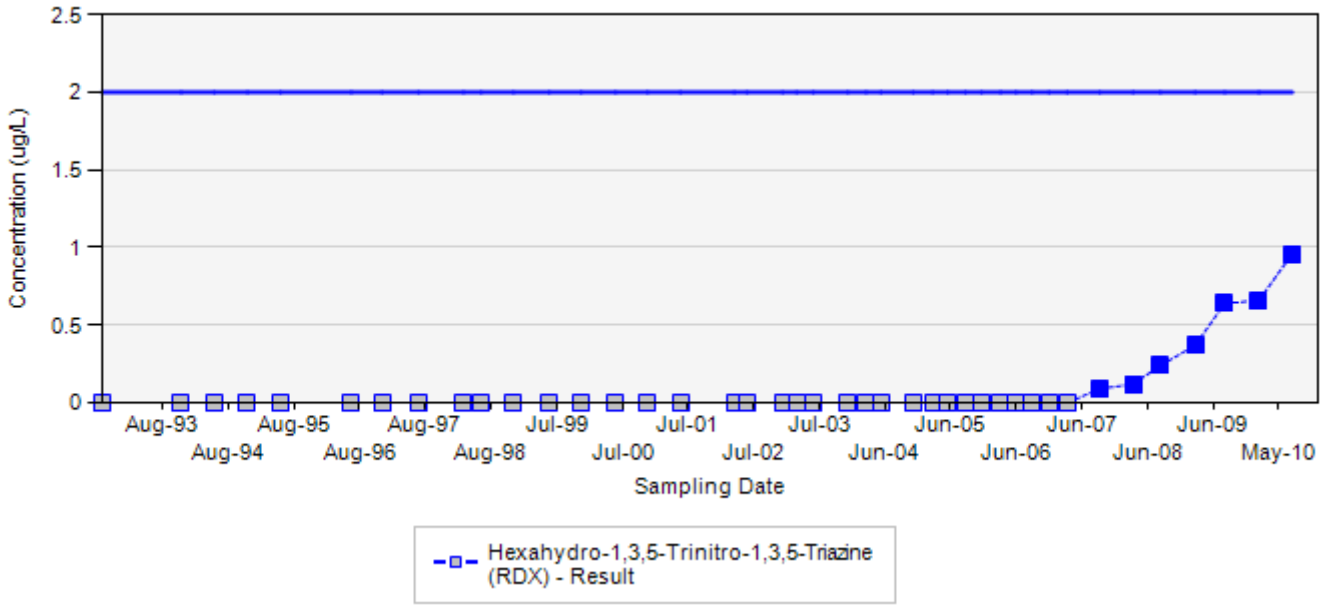

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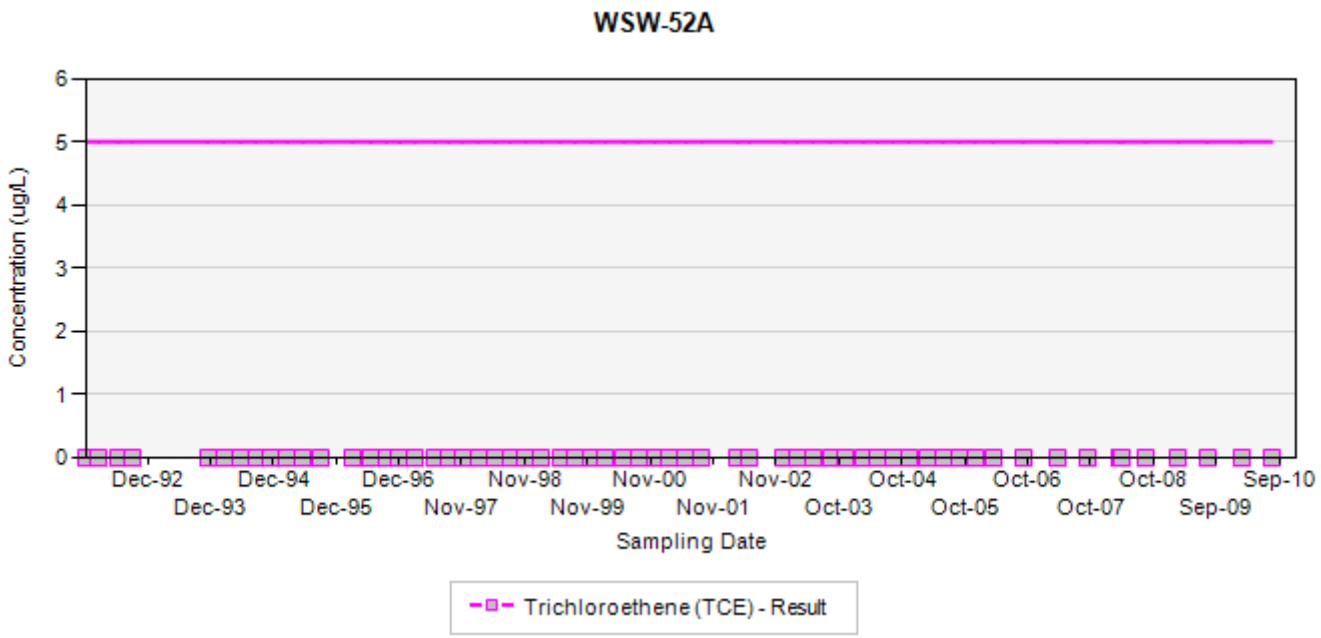

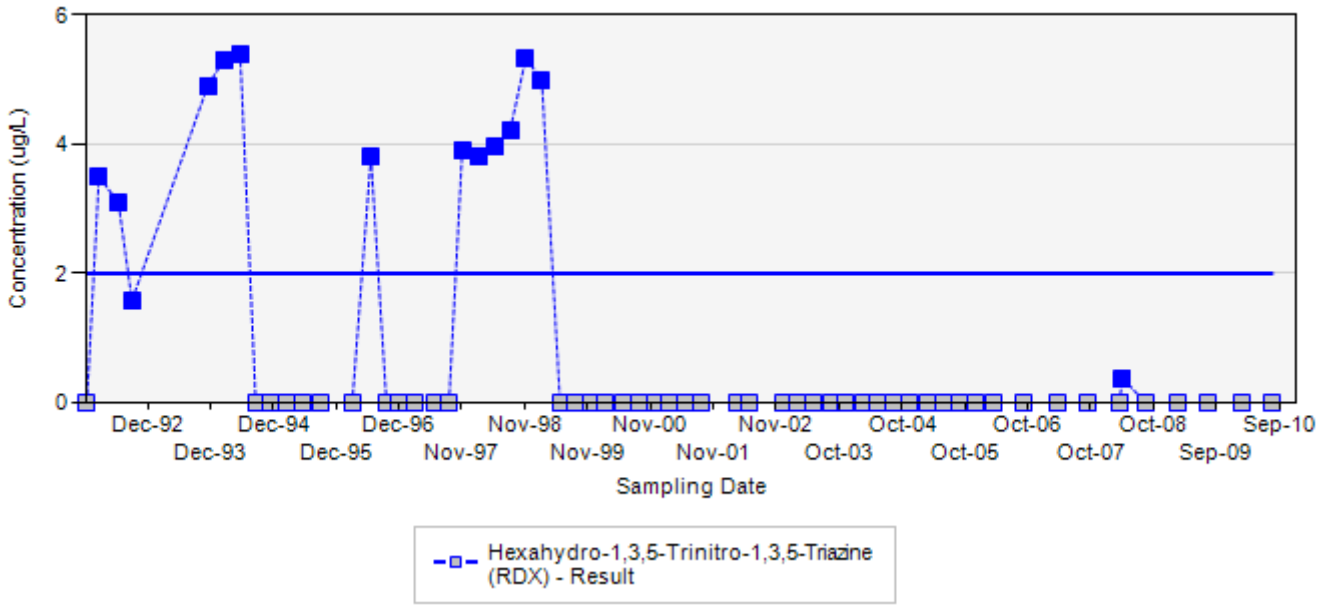

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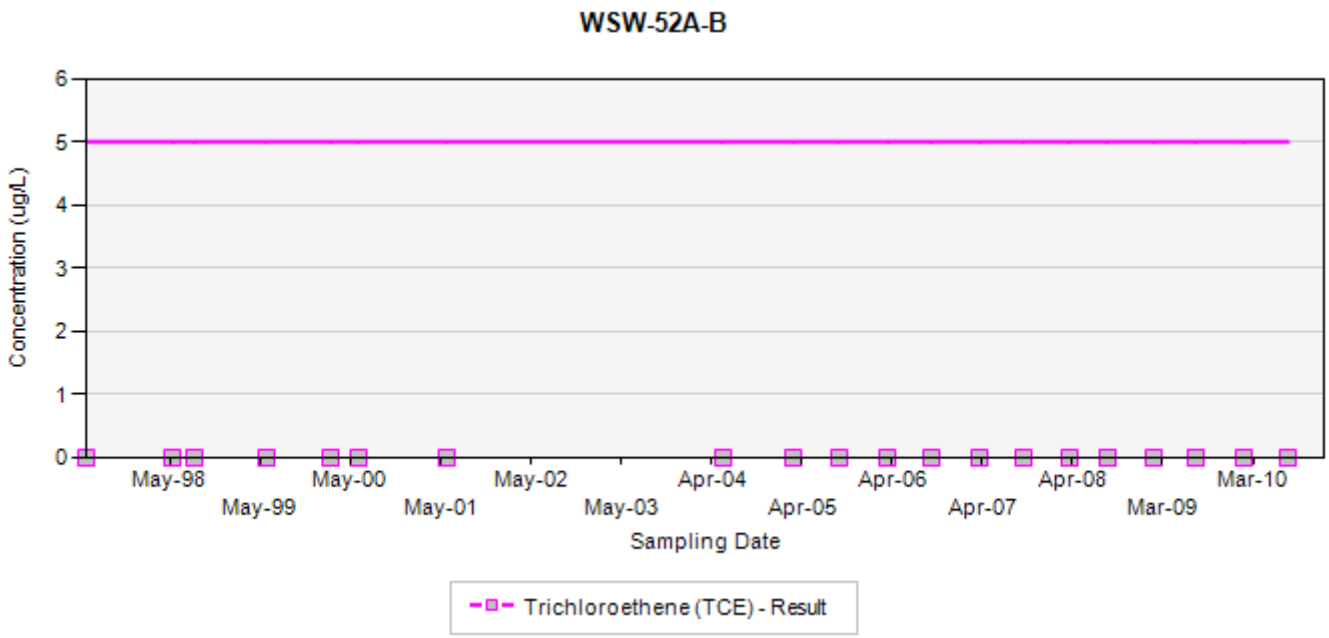
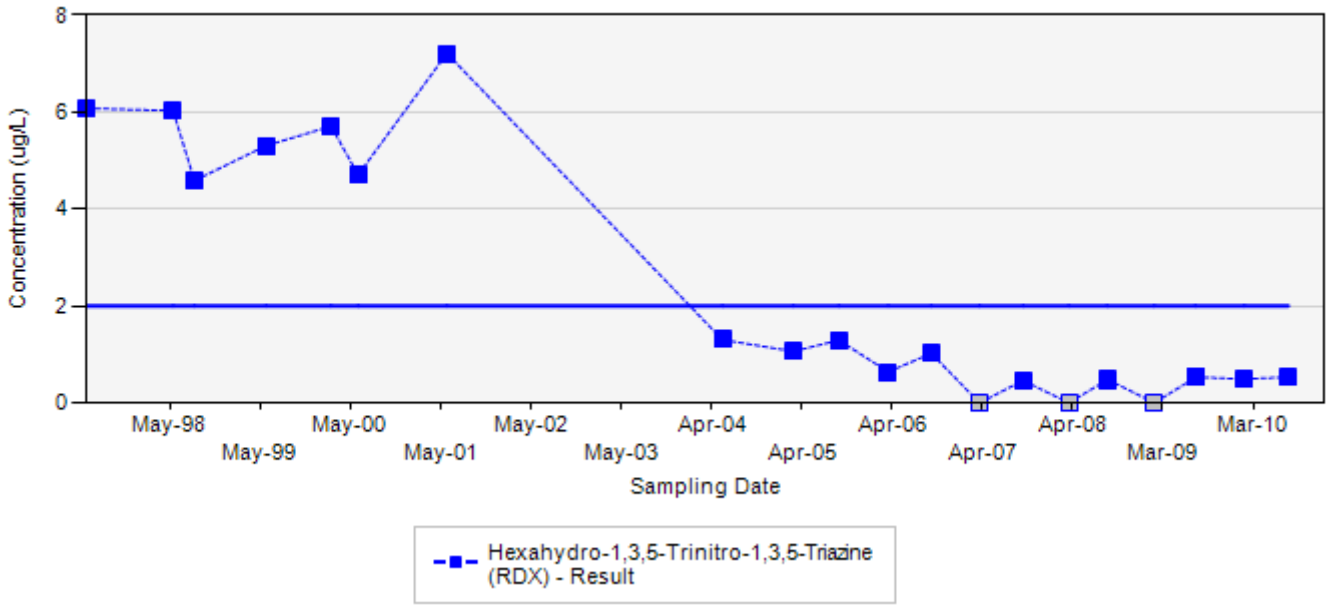
Concentration Trend Charts for Water Supply Wells





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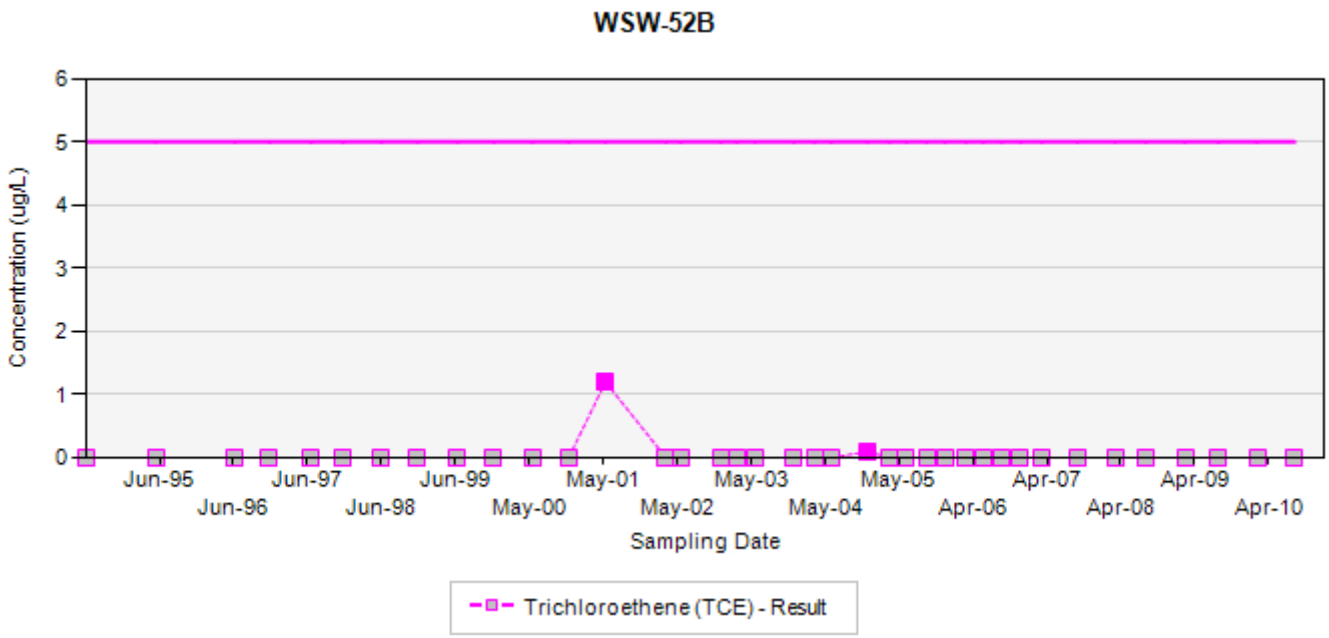

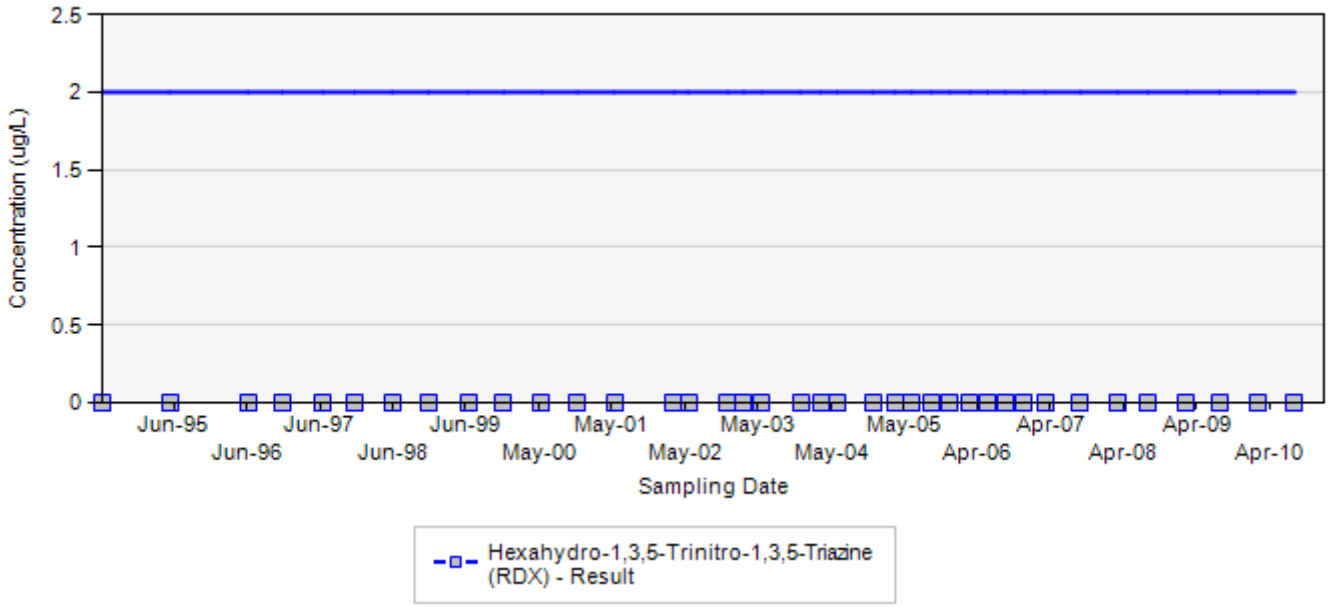

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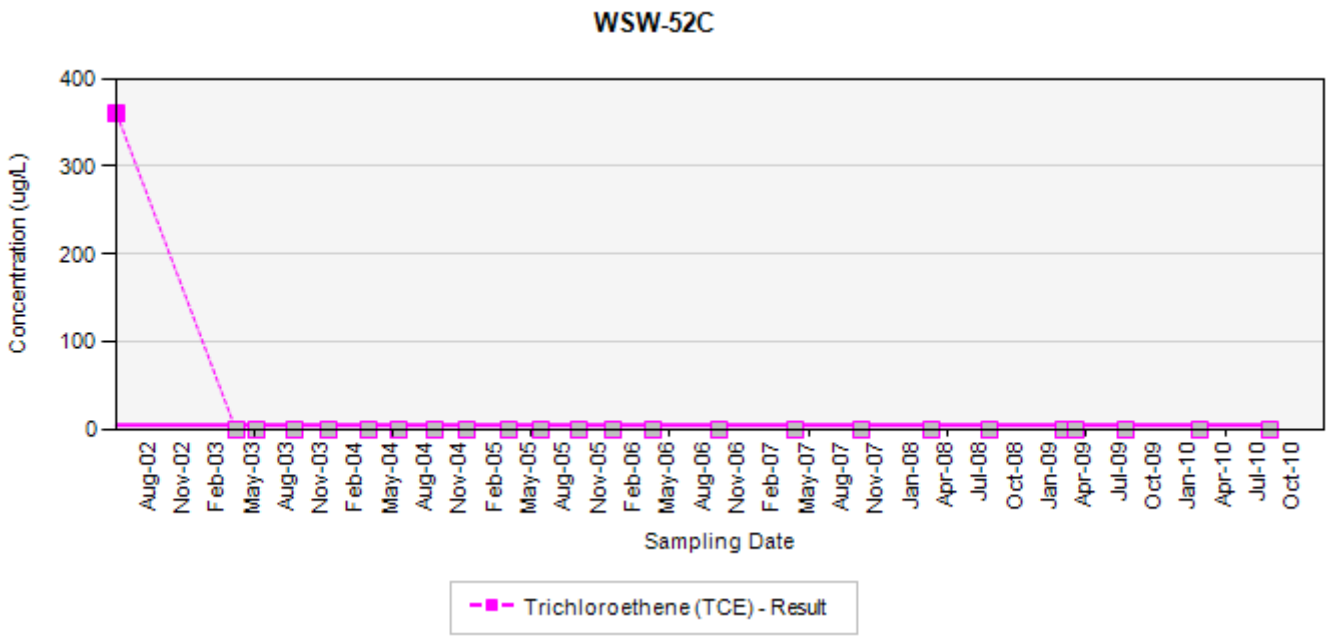

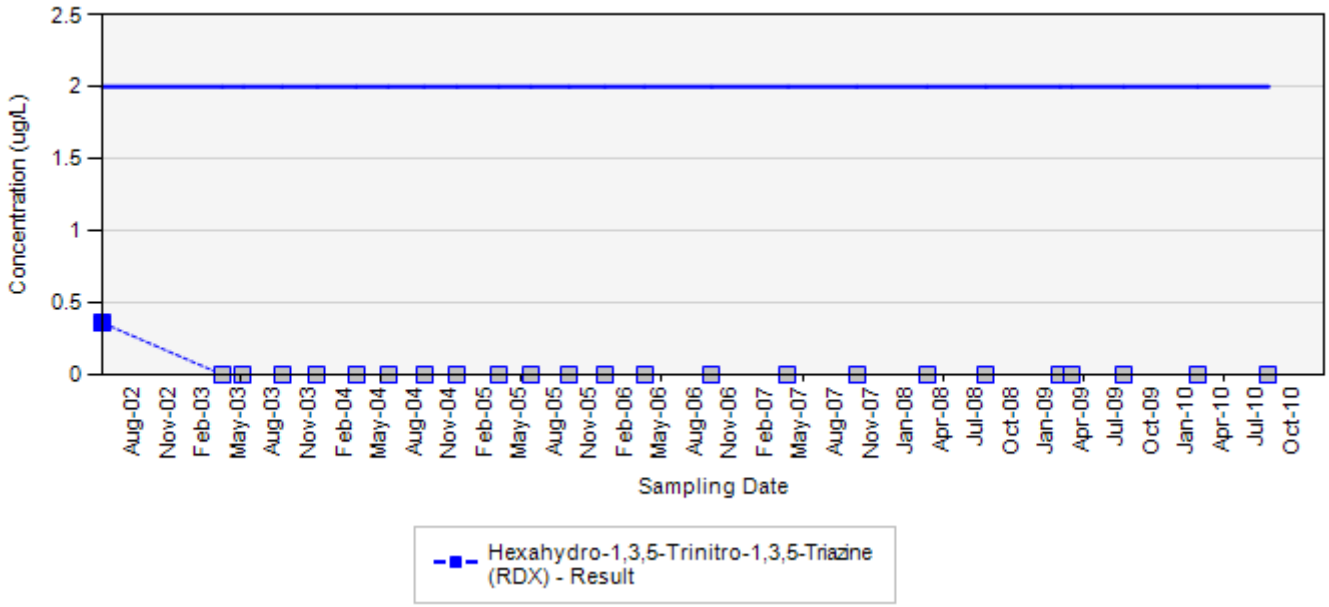

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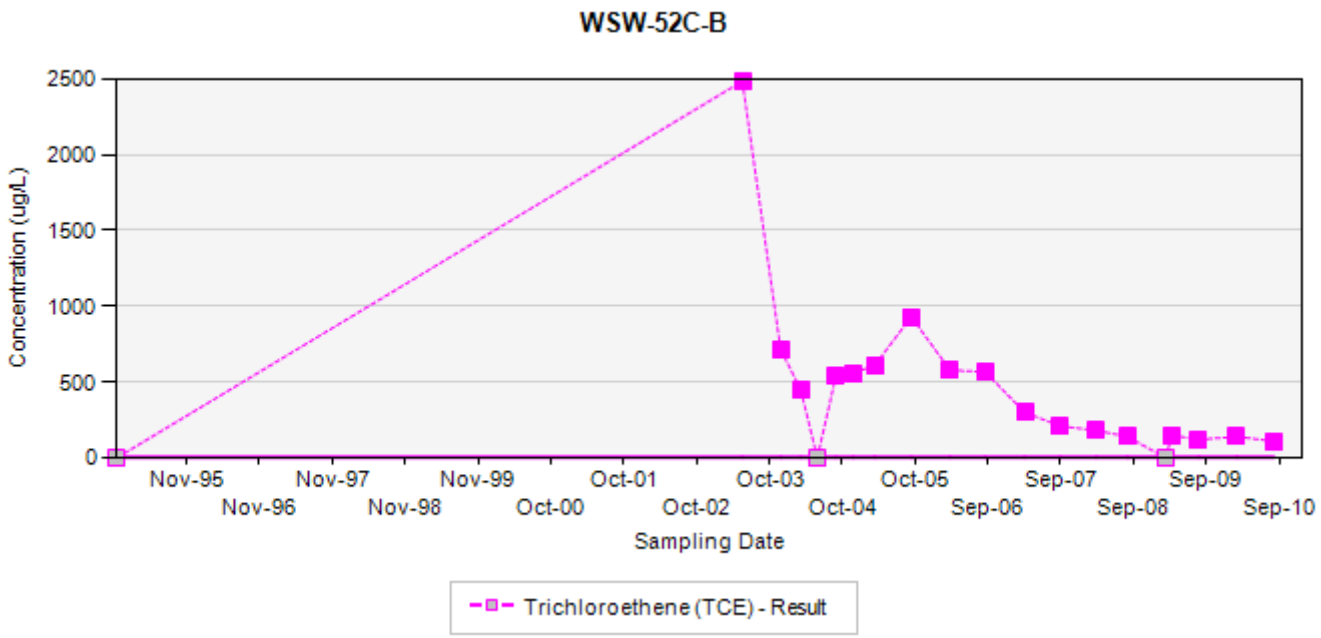

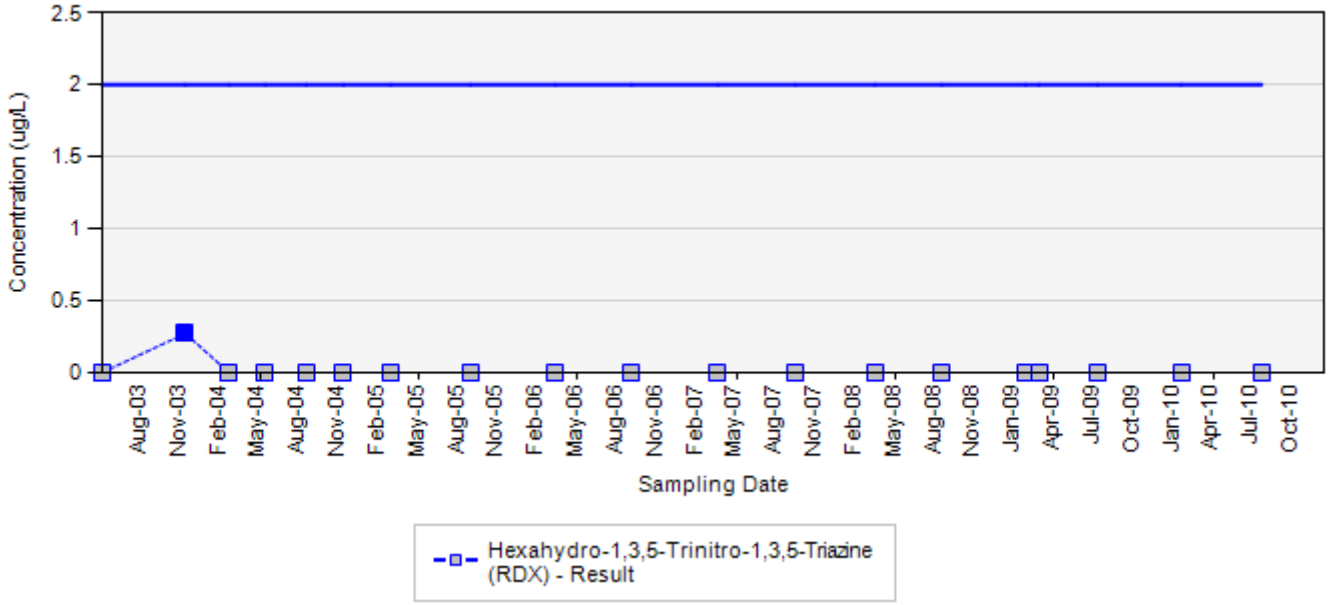

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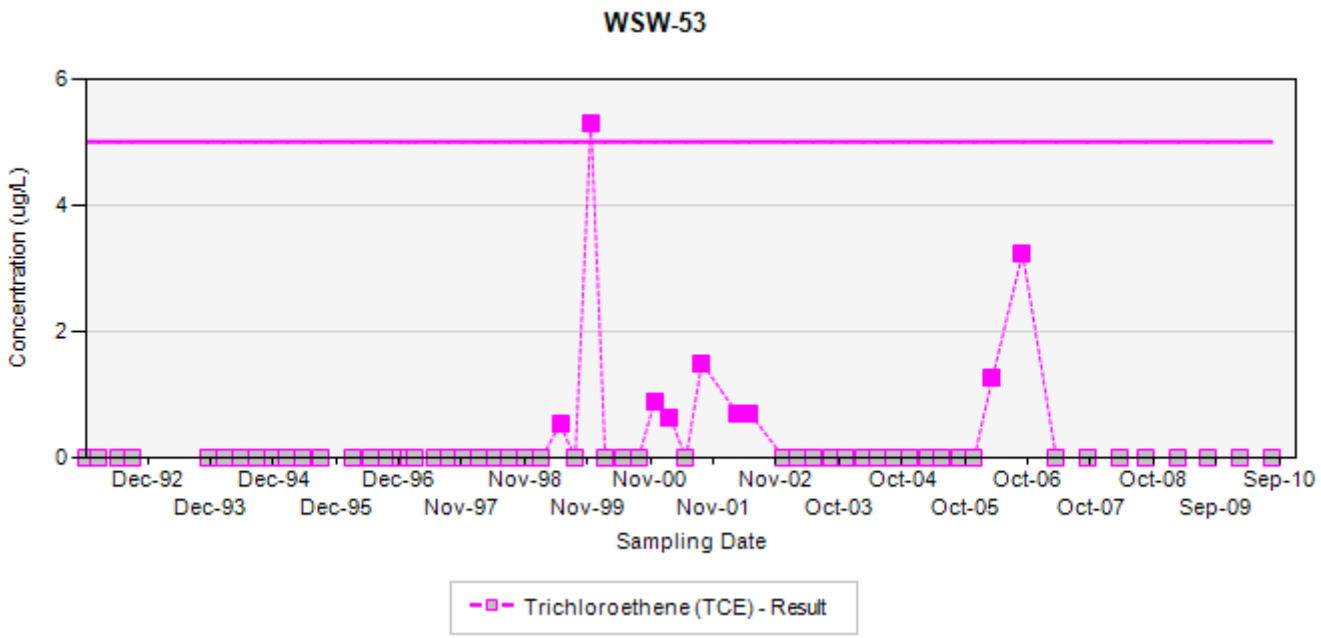

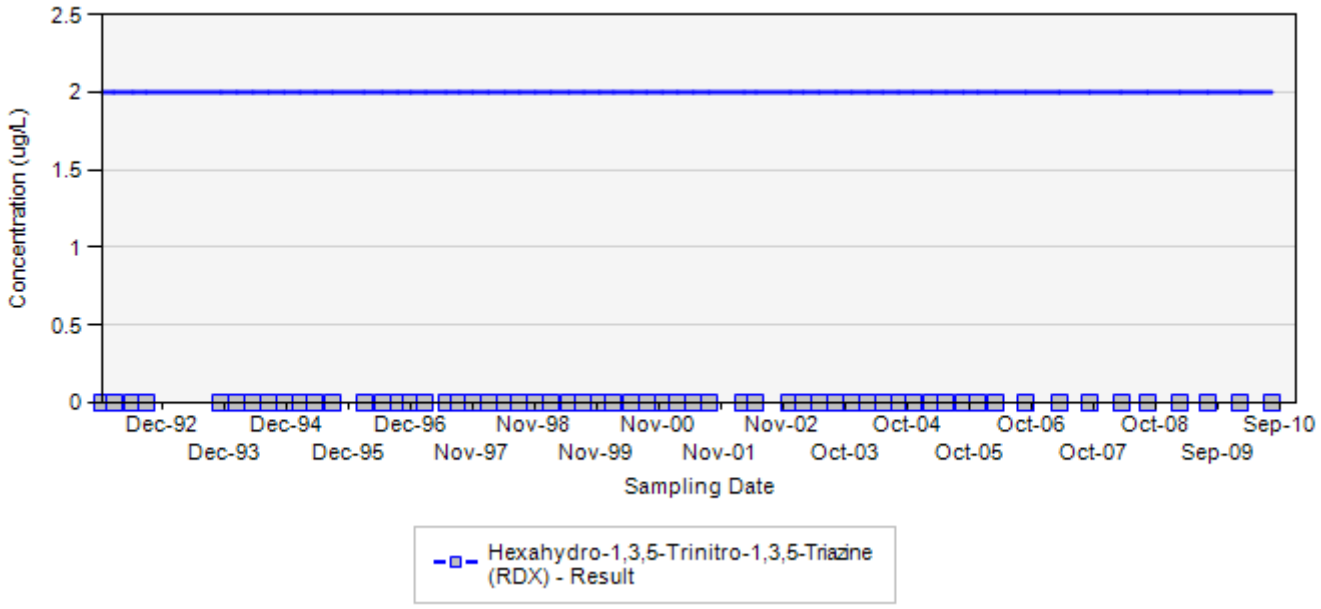

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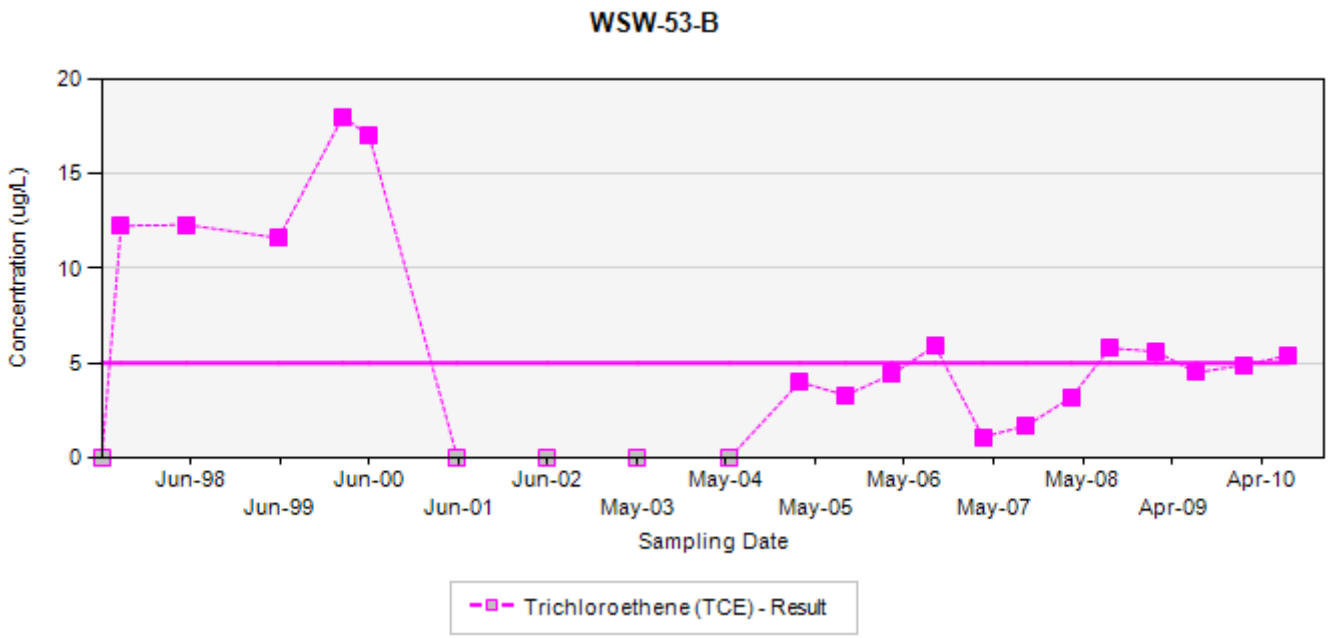

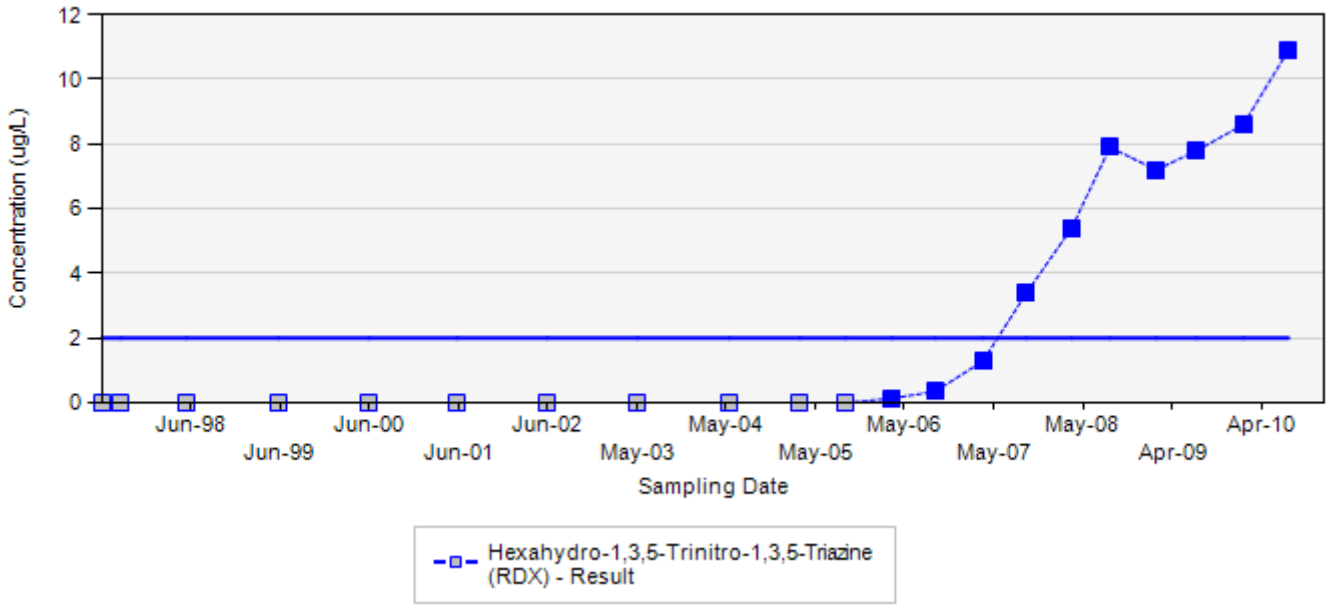

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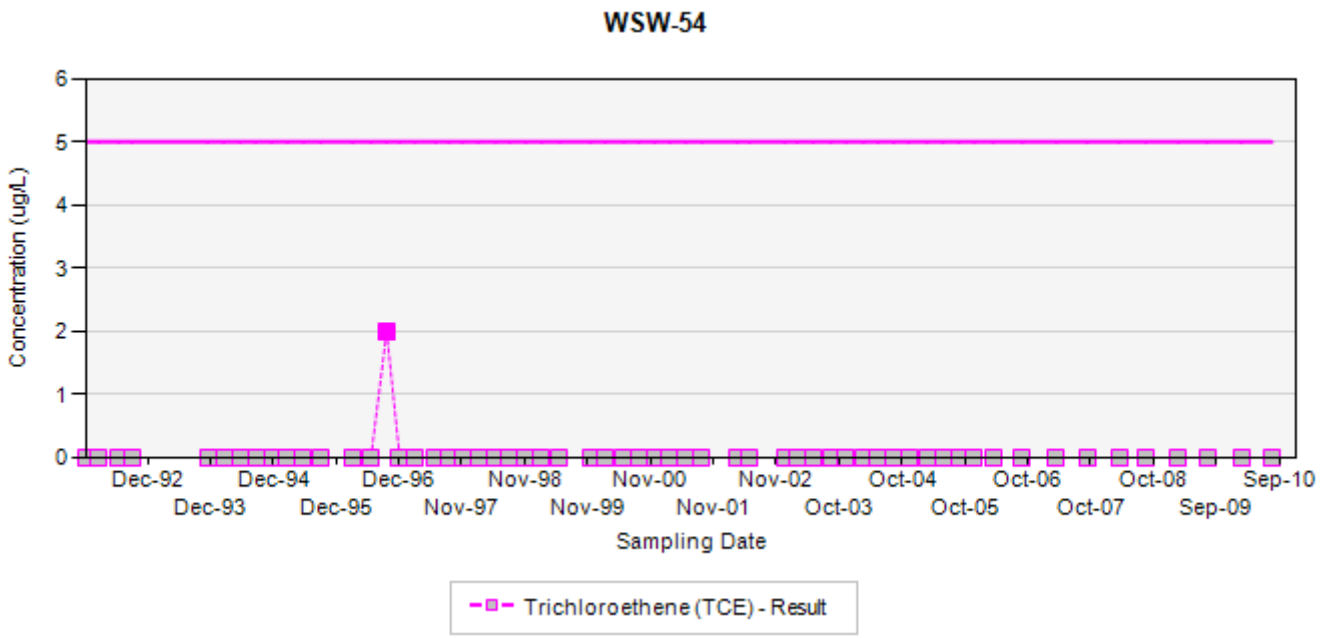

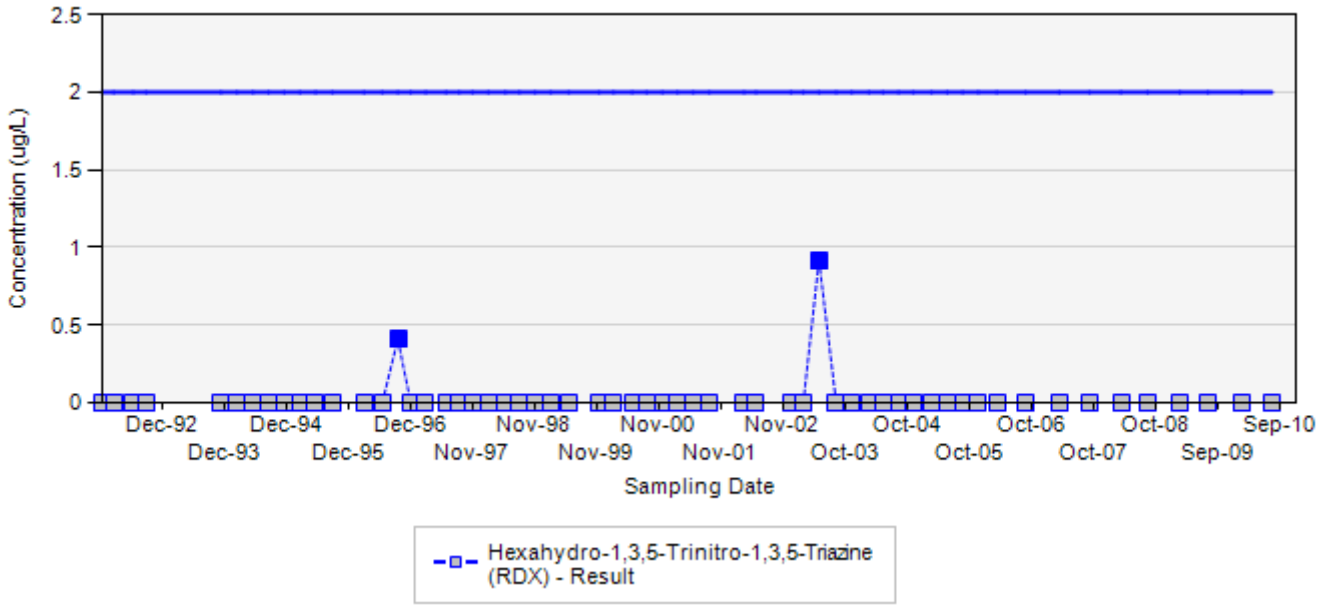

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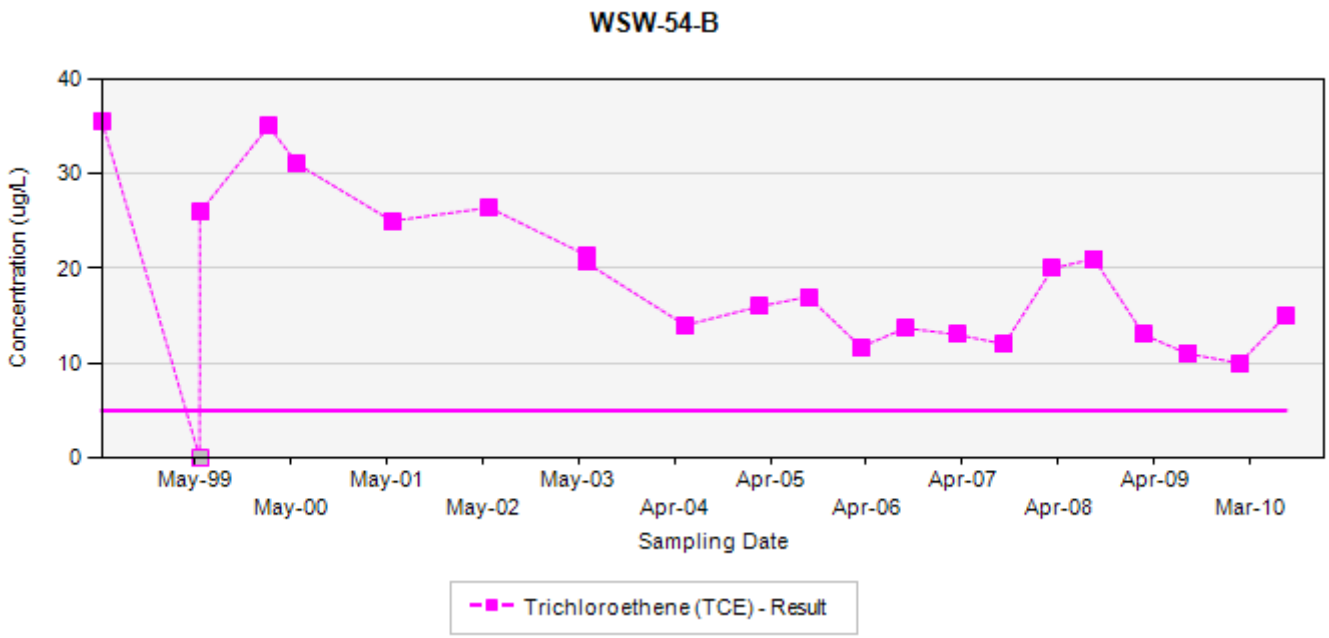

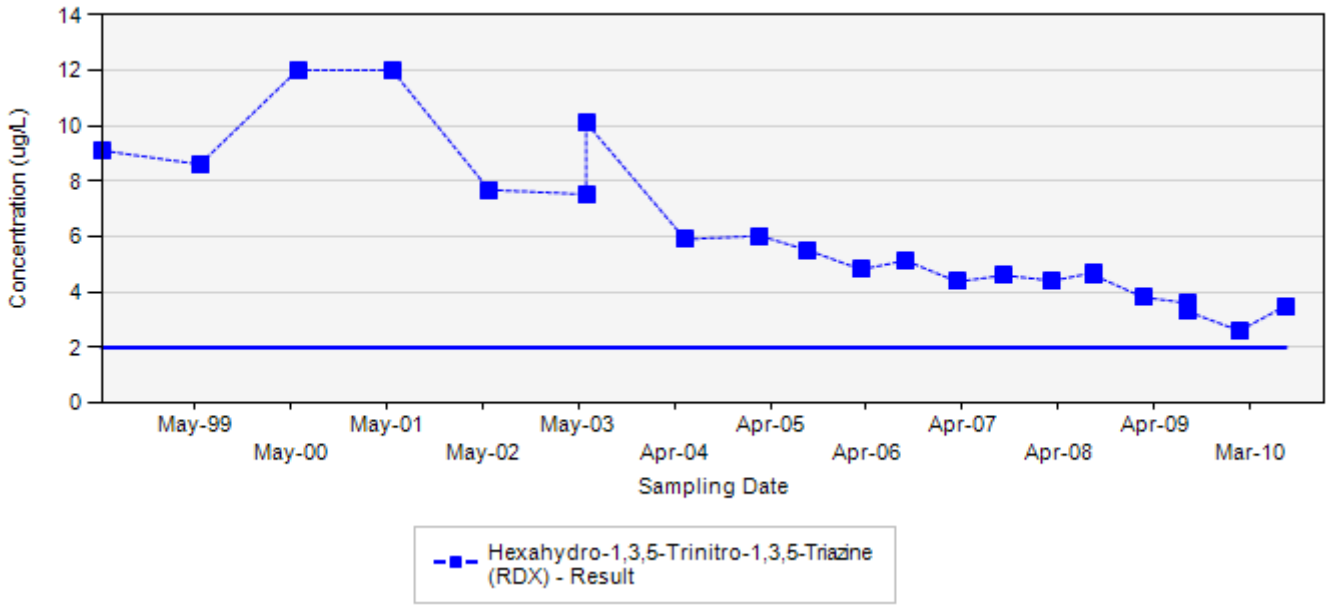

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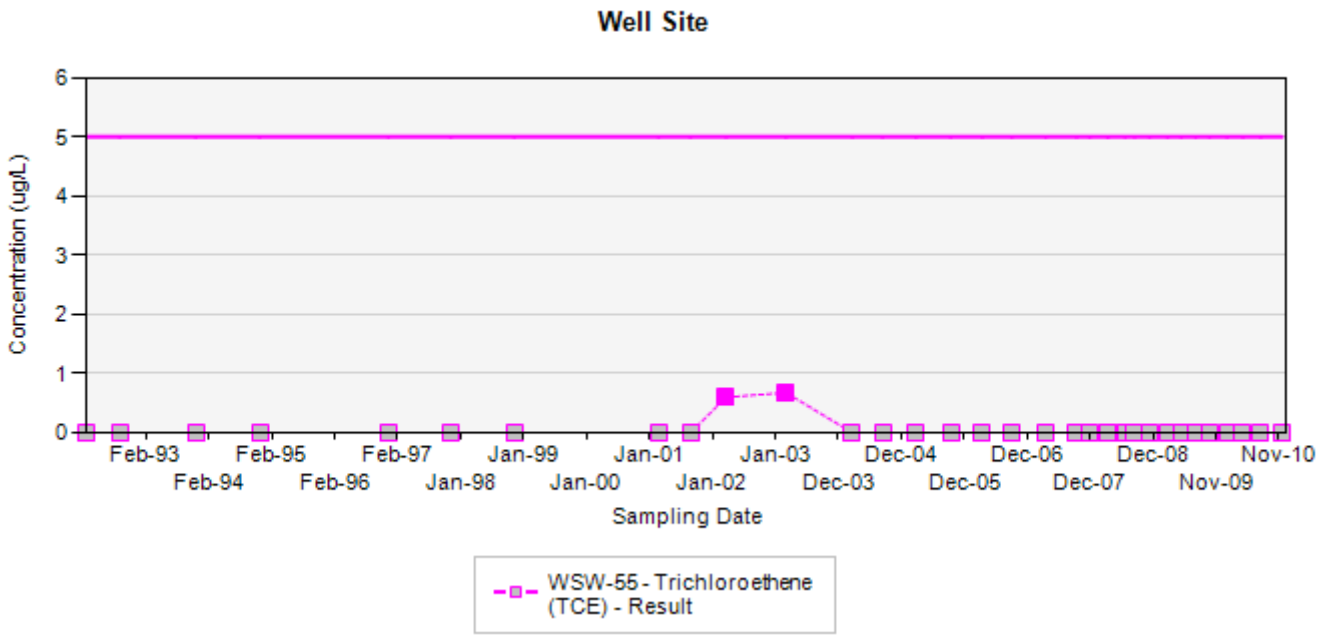

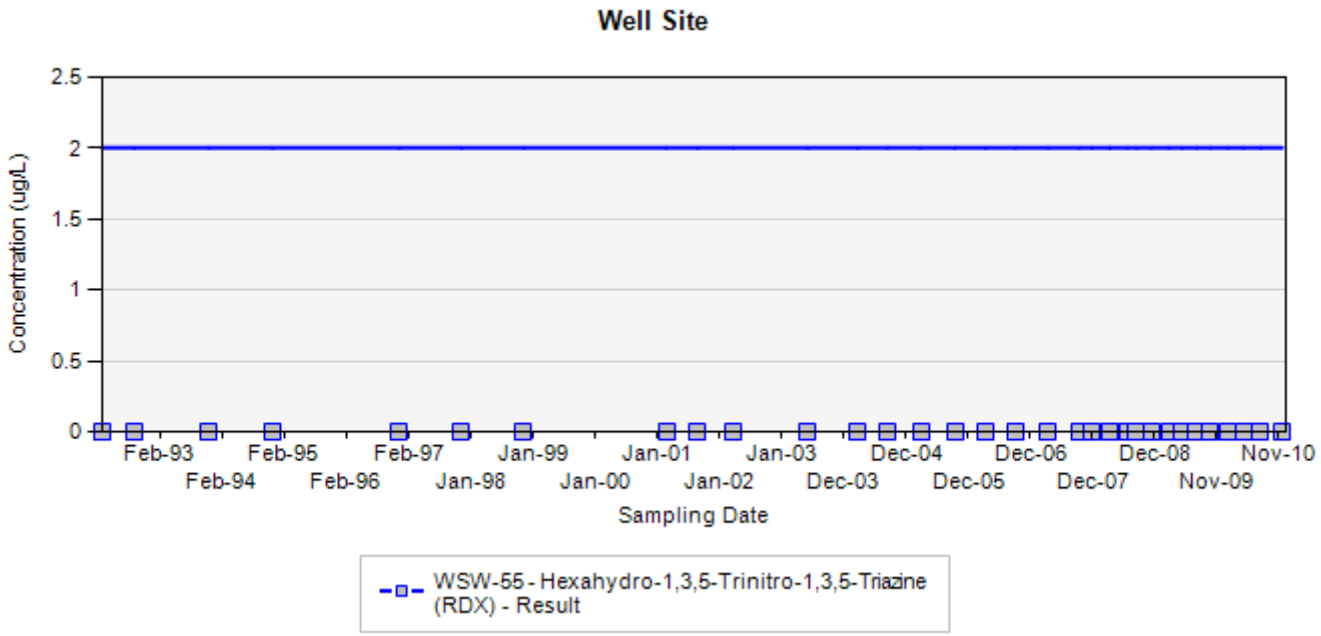

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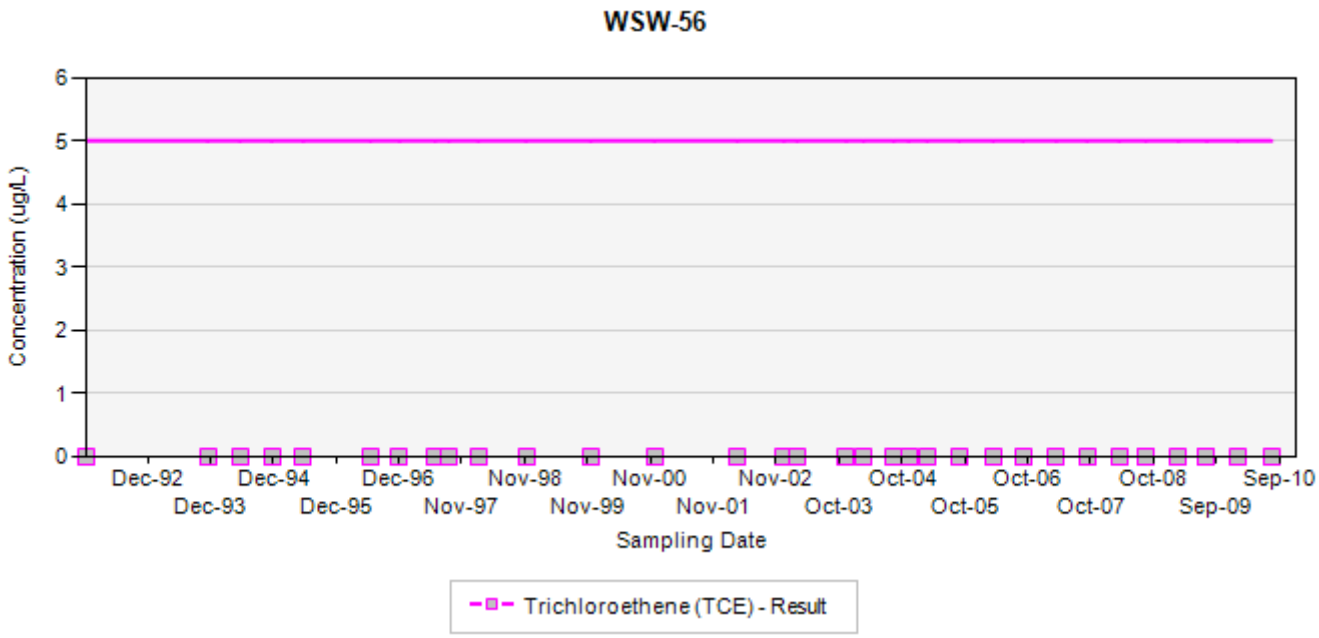

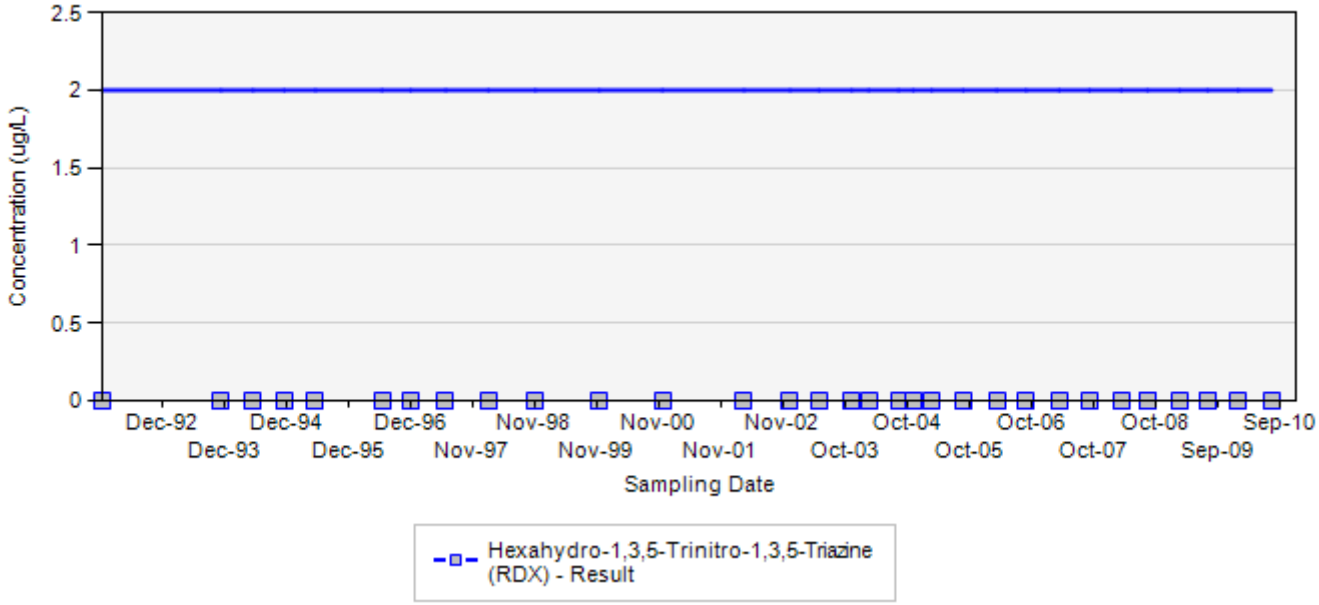

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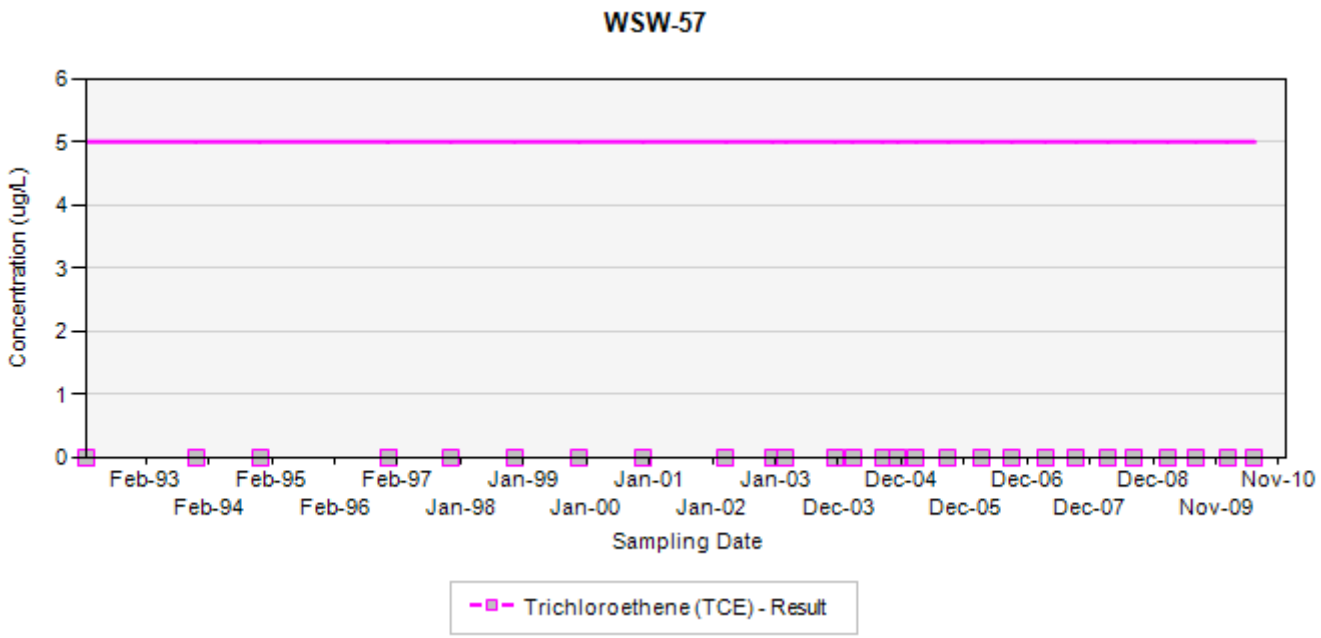

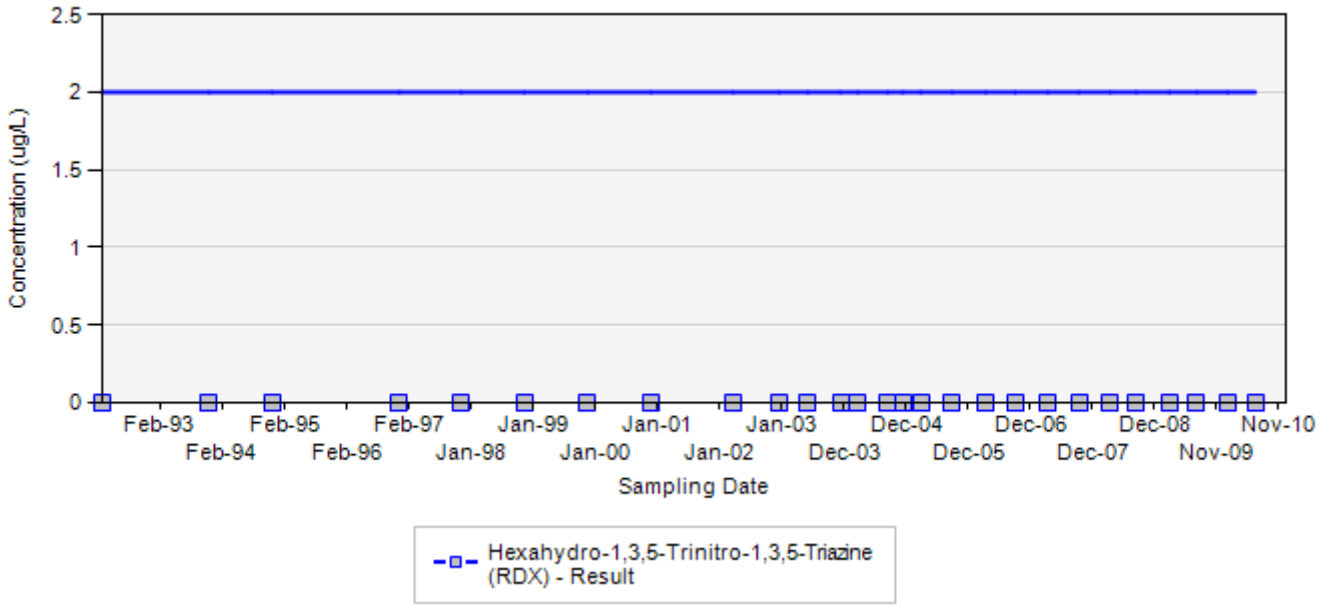

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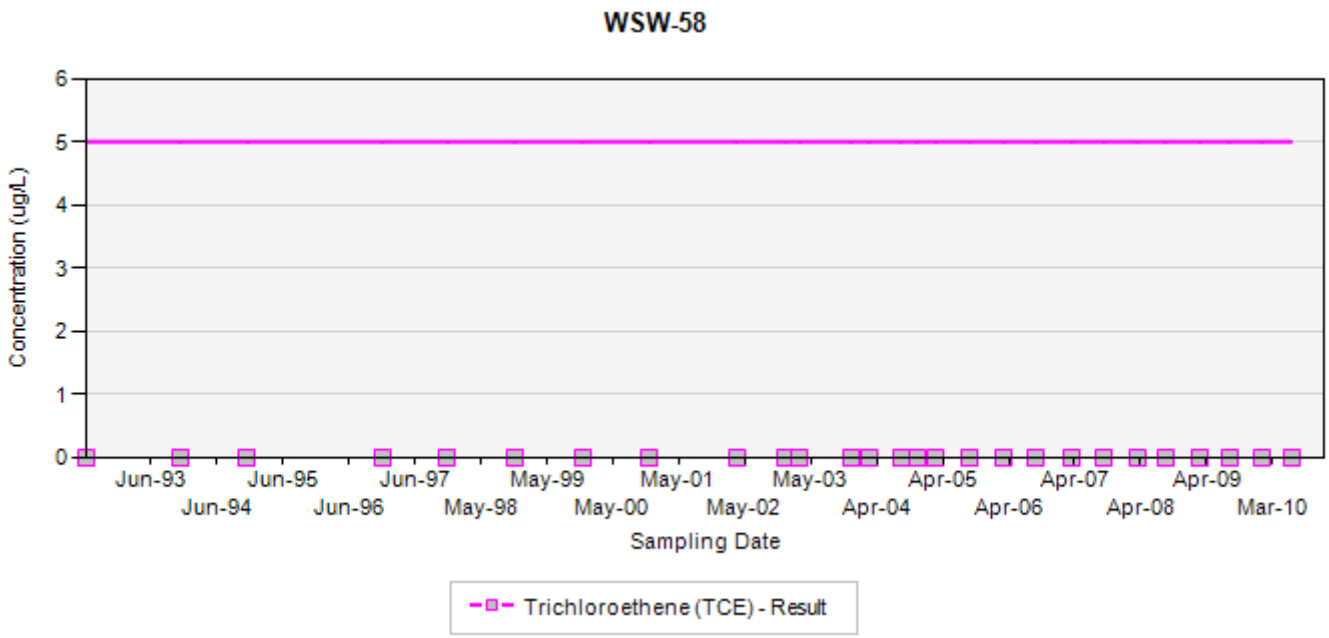

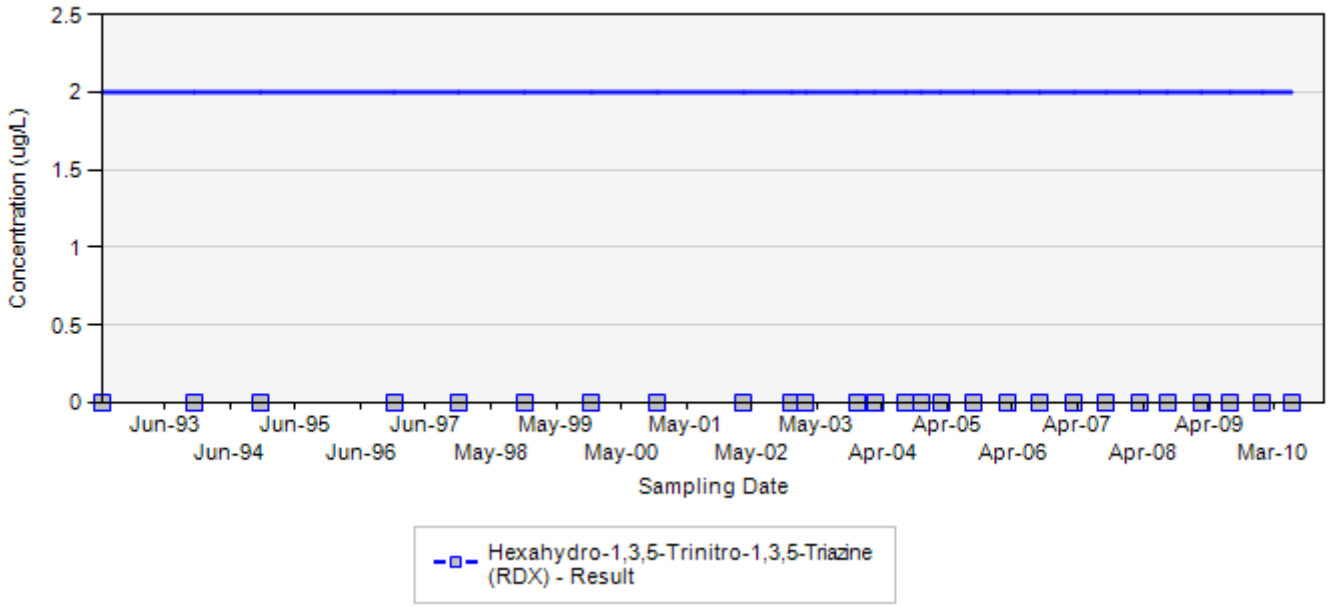

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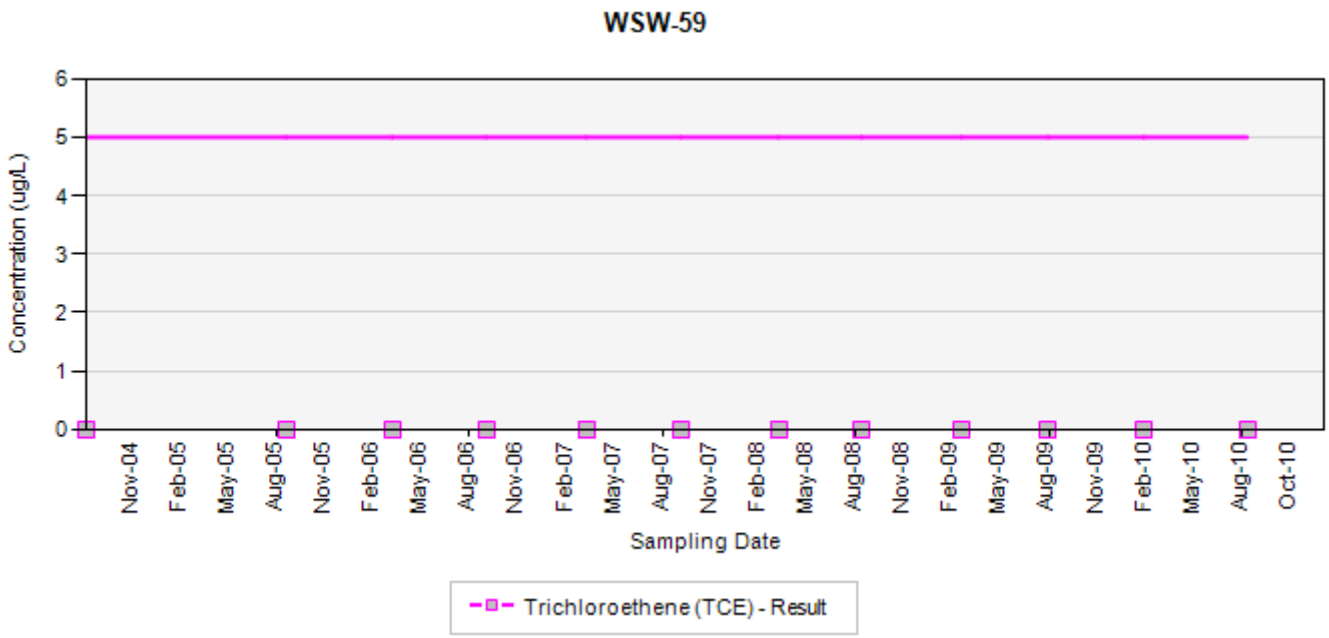

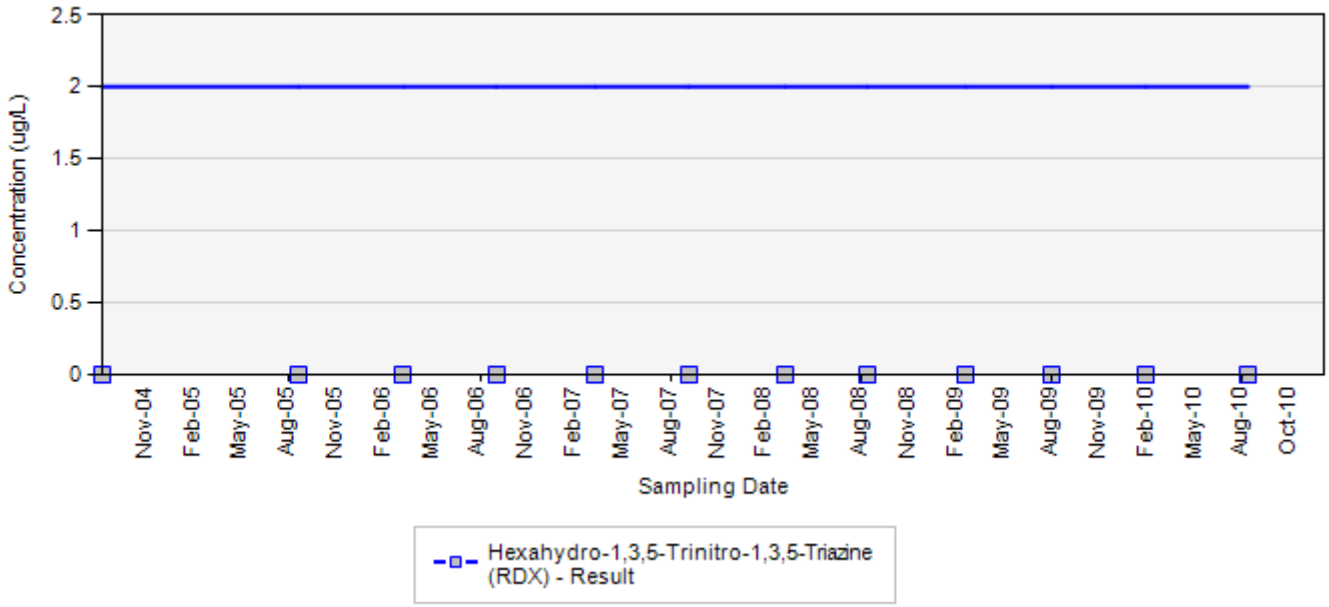

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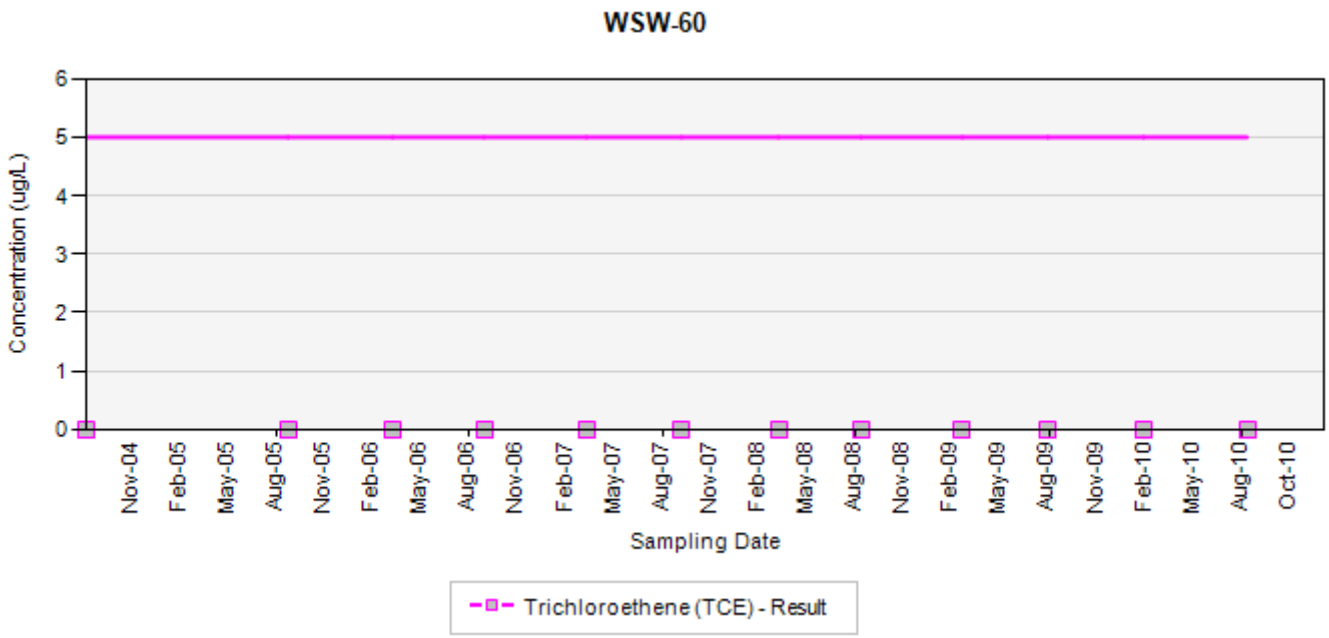

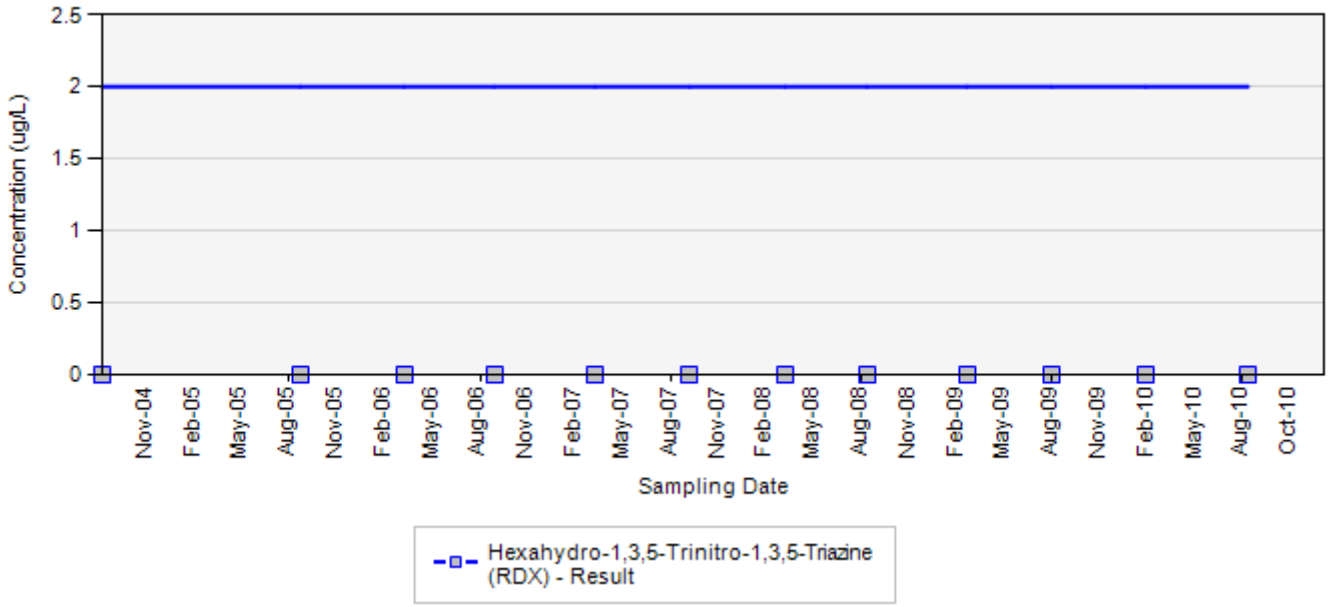

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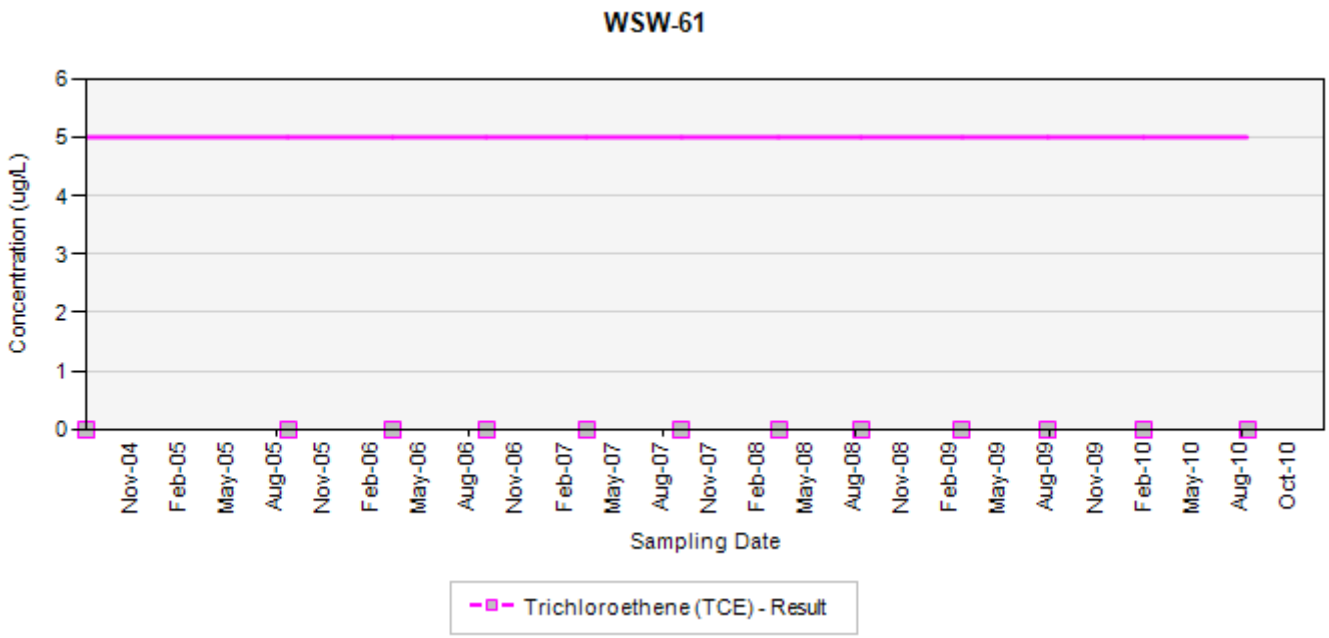

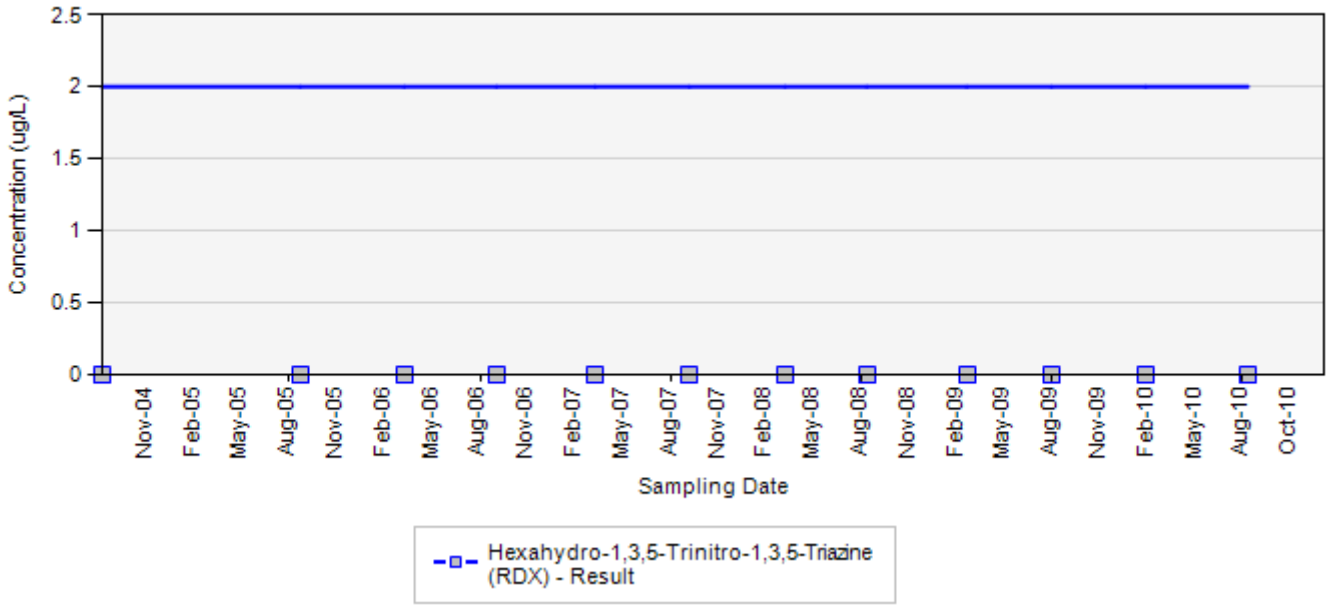

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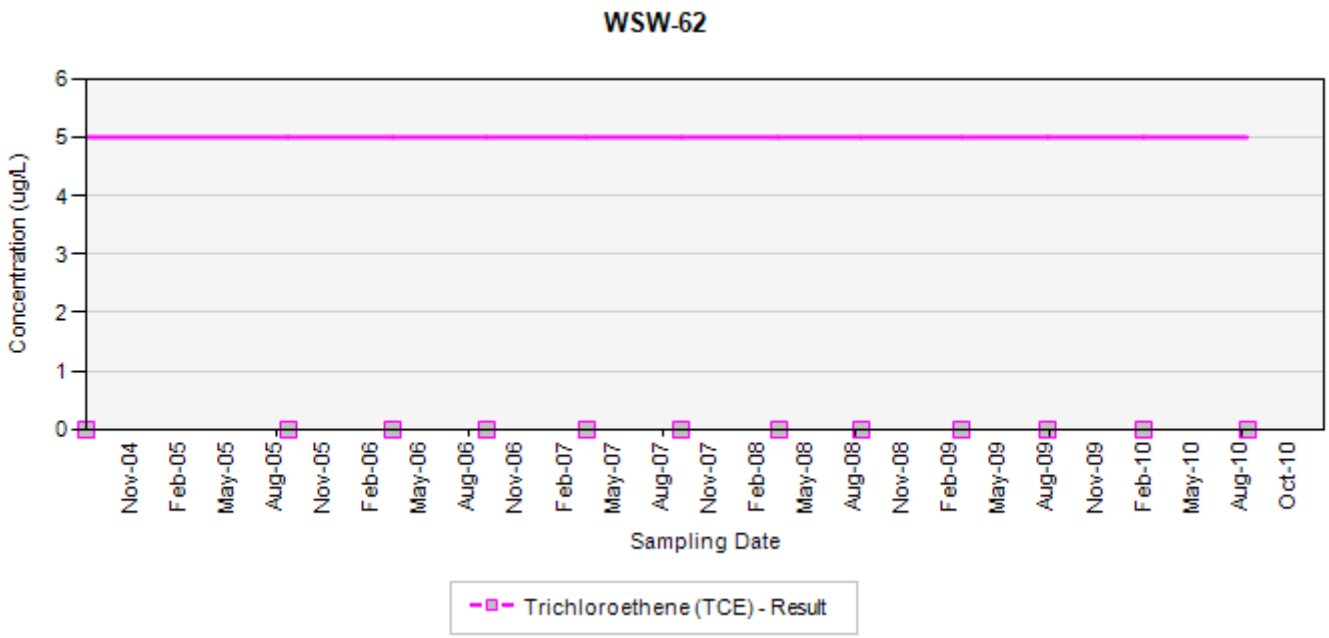

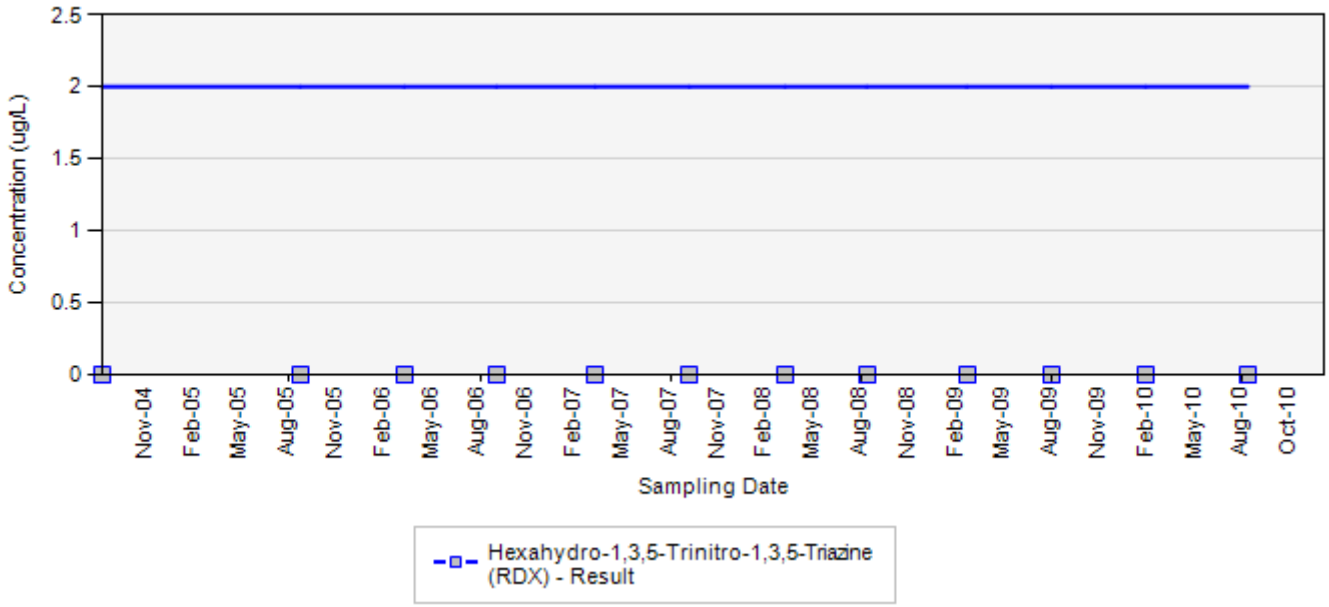

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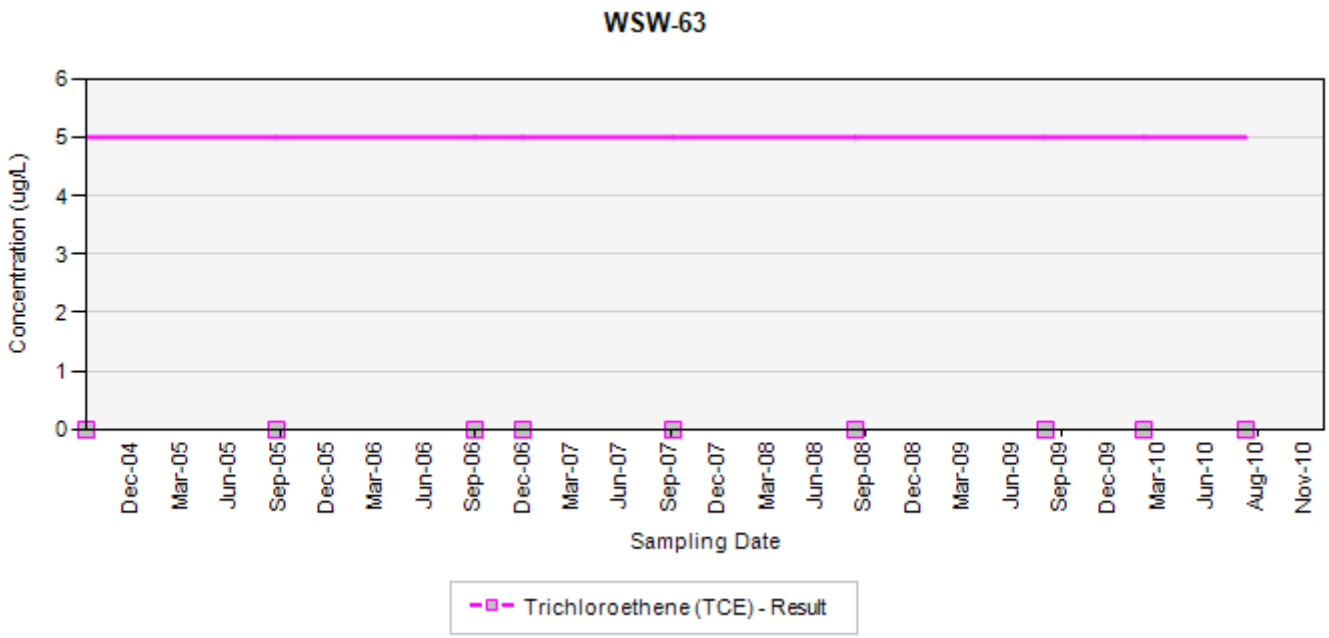

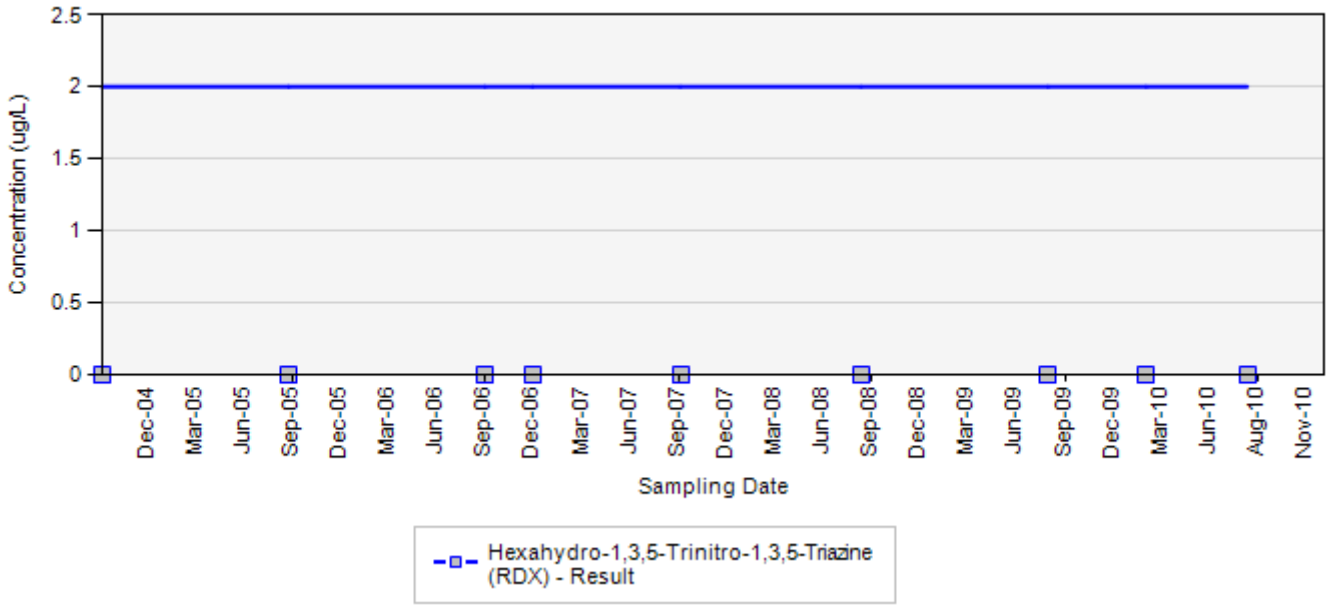

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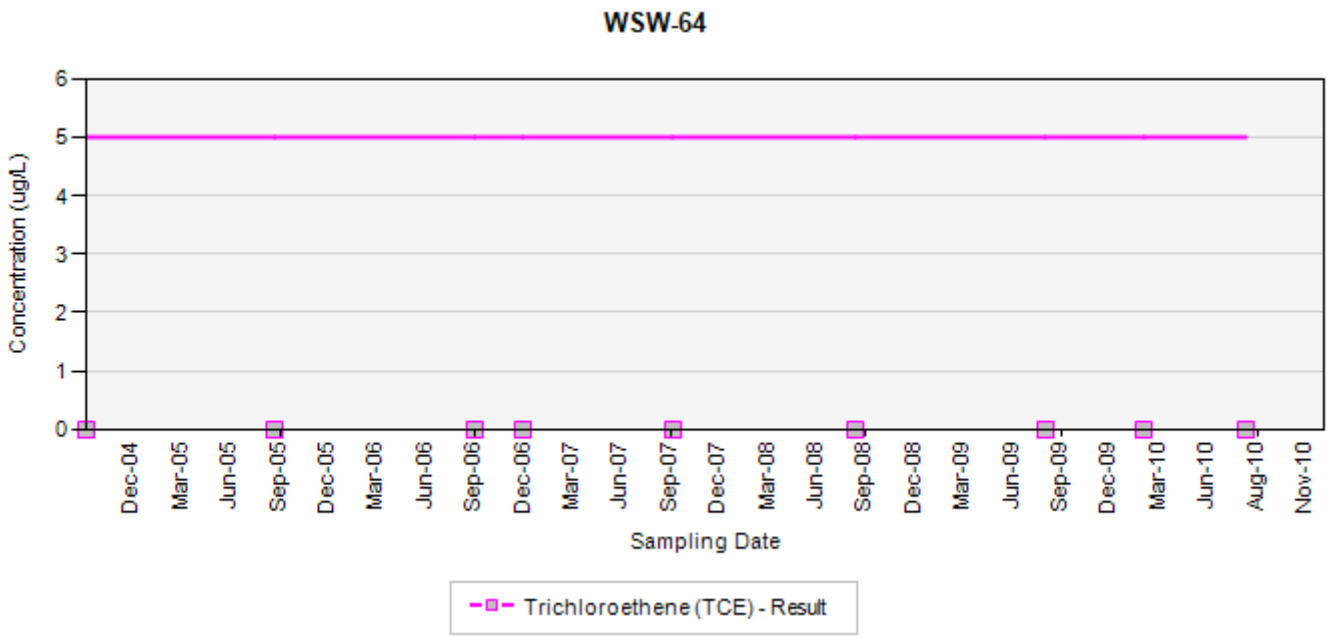

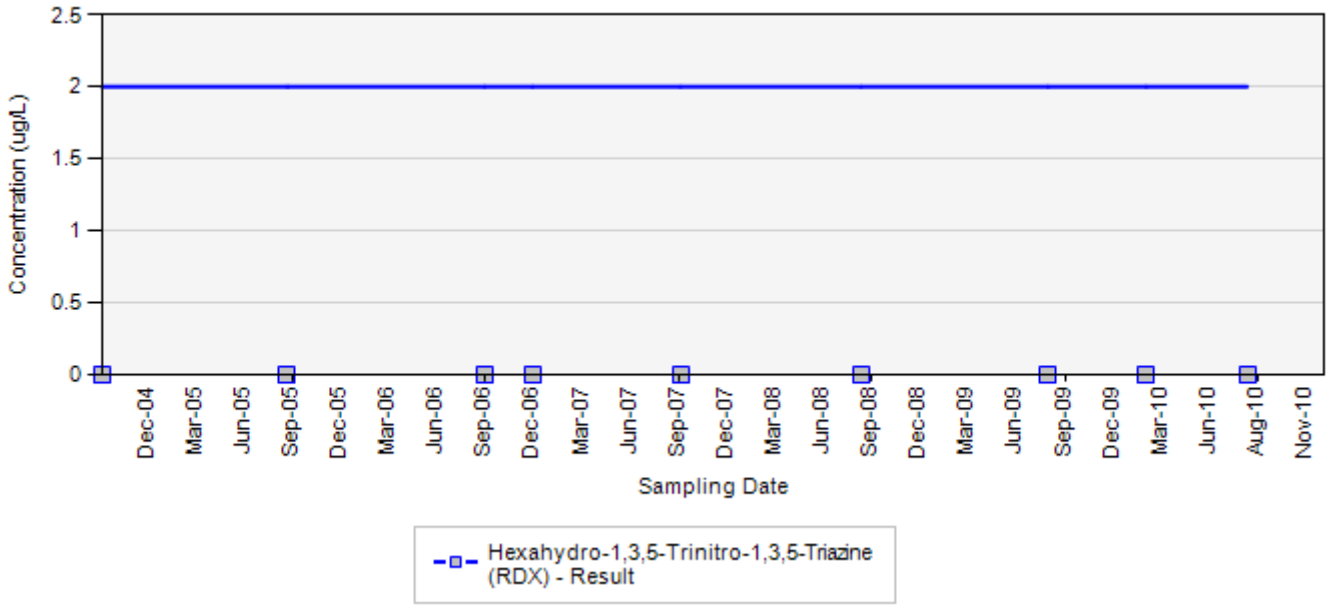

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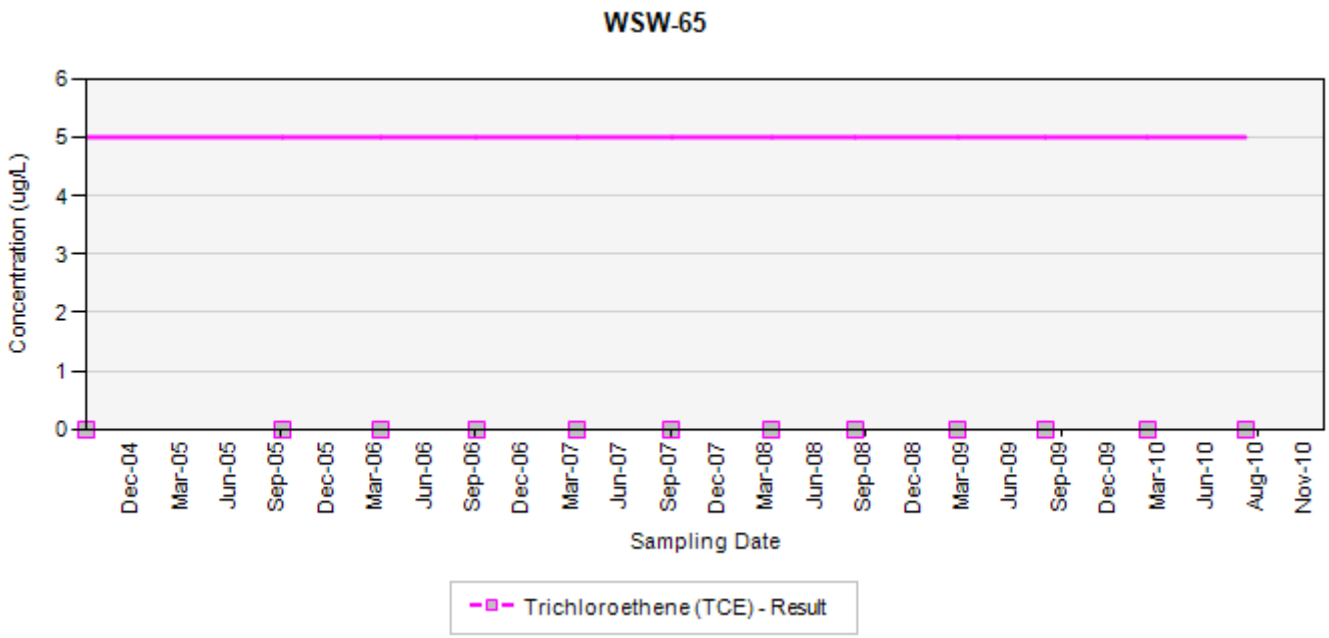

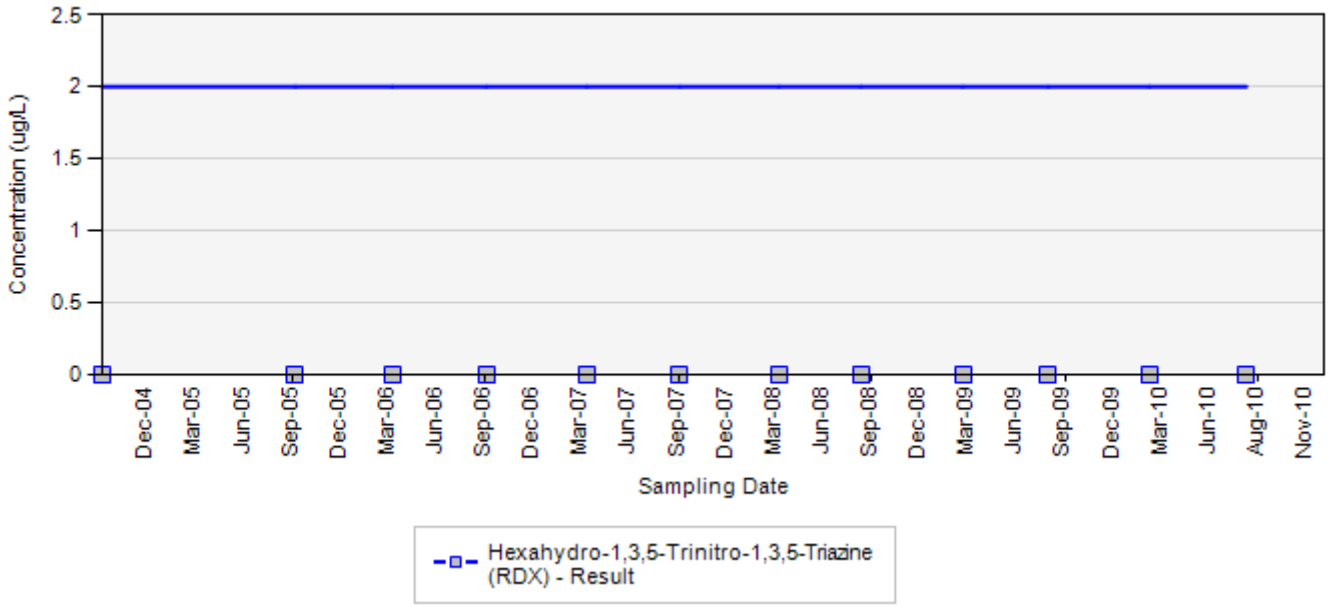

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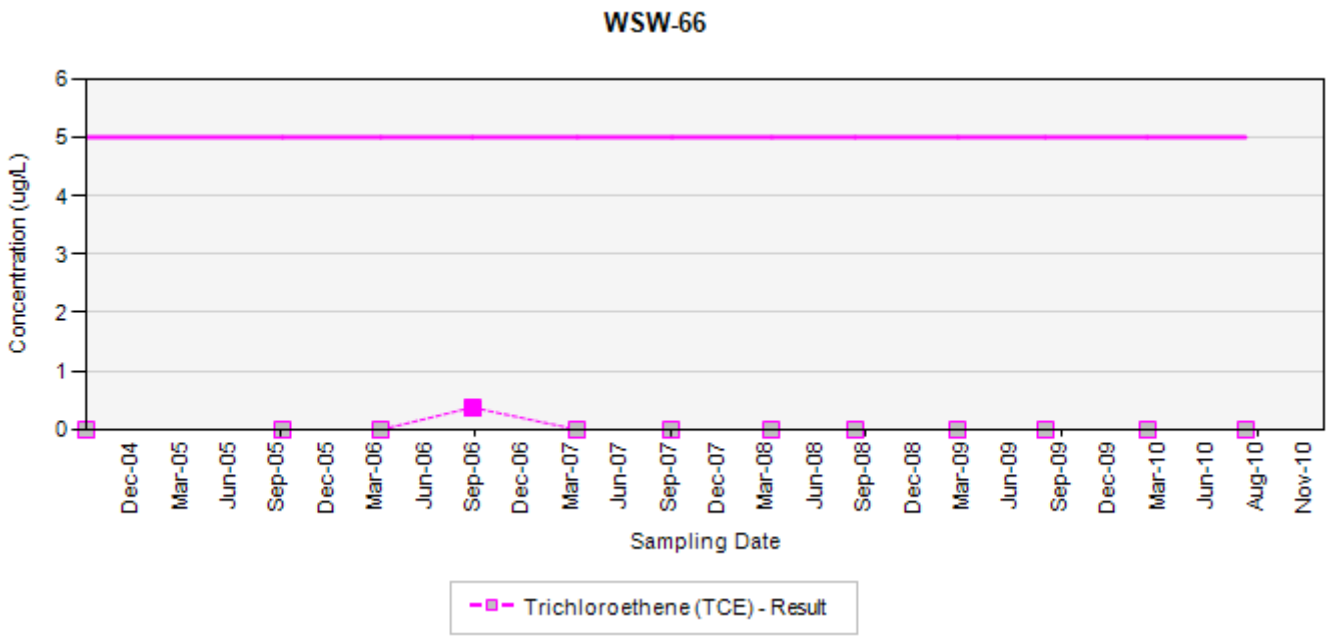

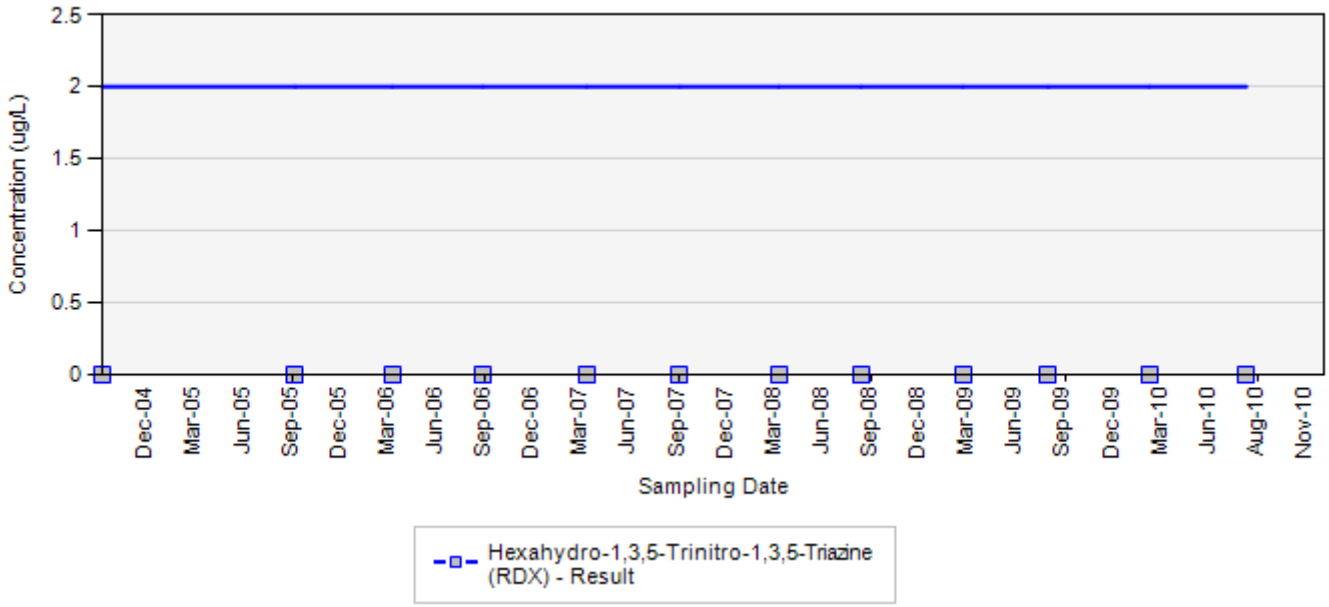

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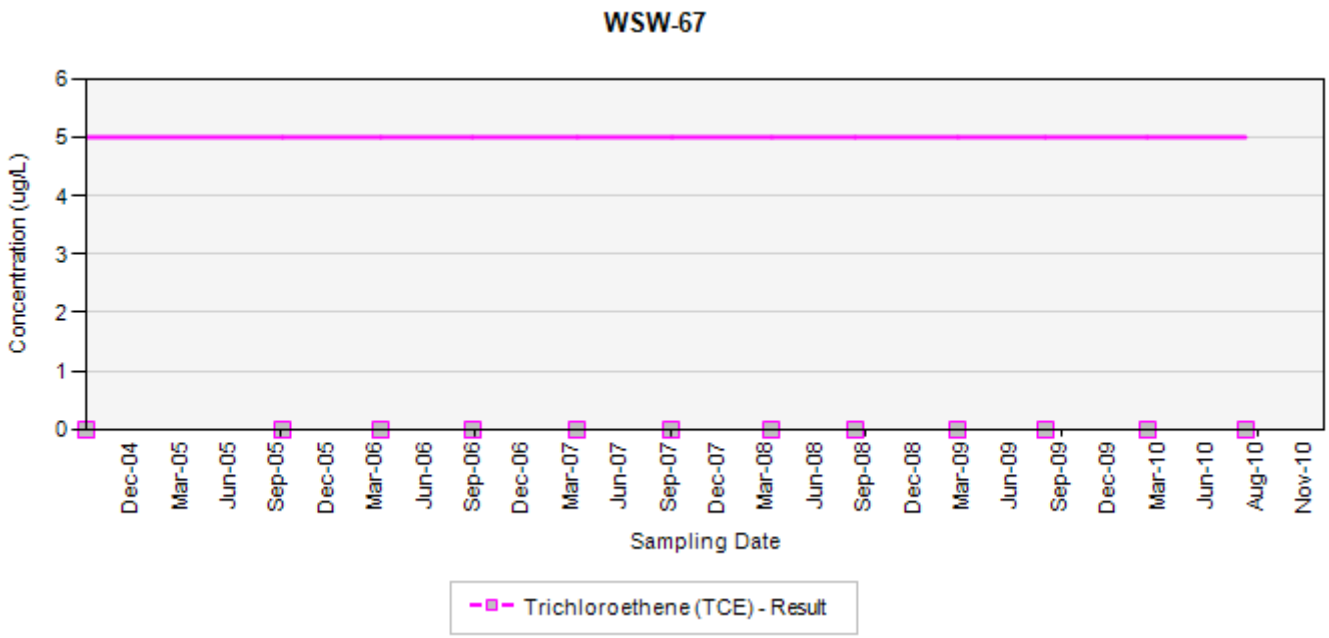

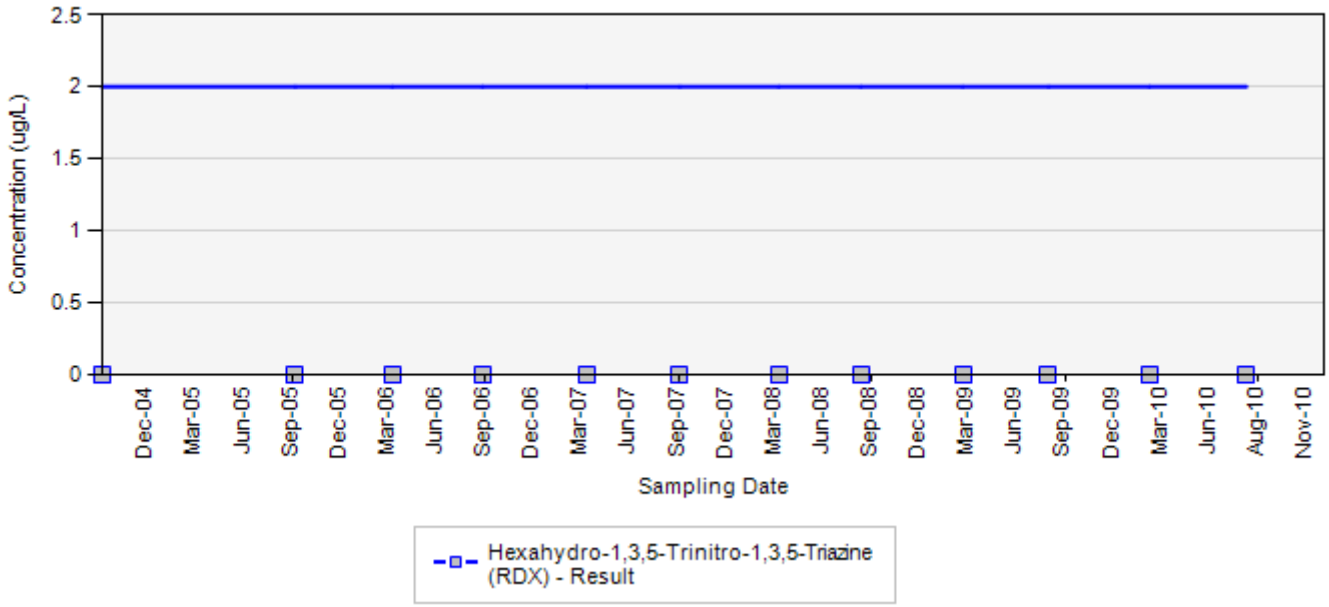

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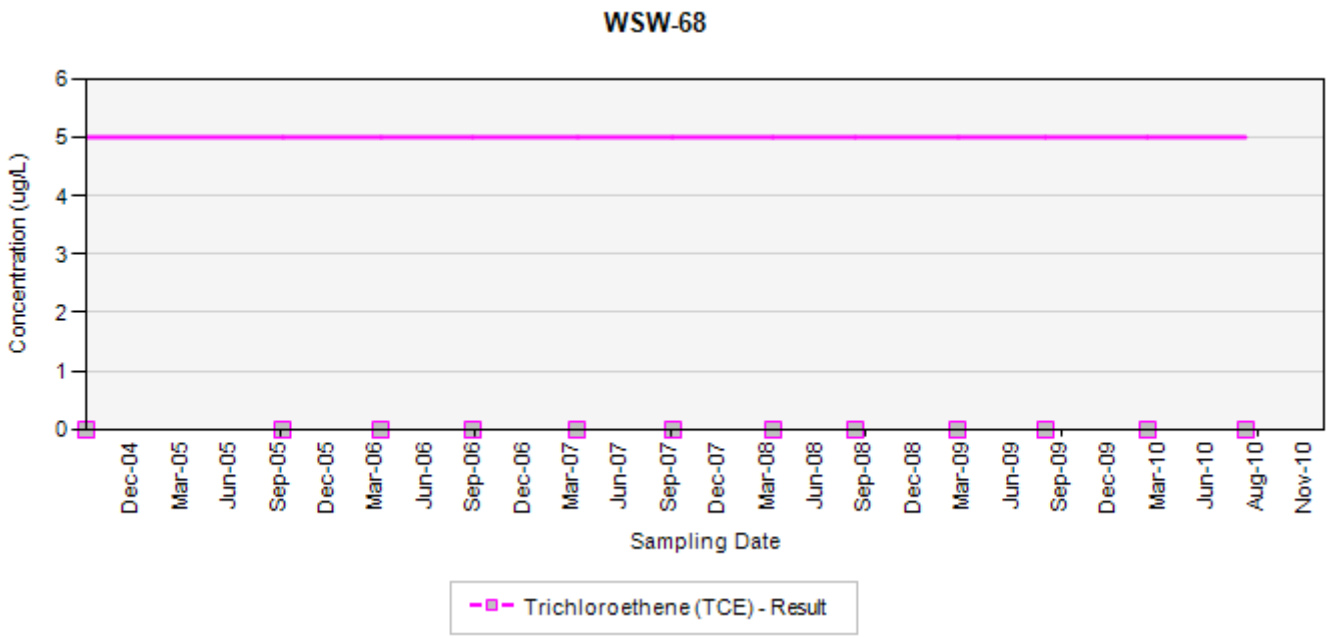

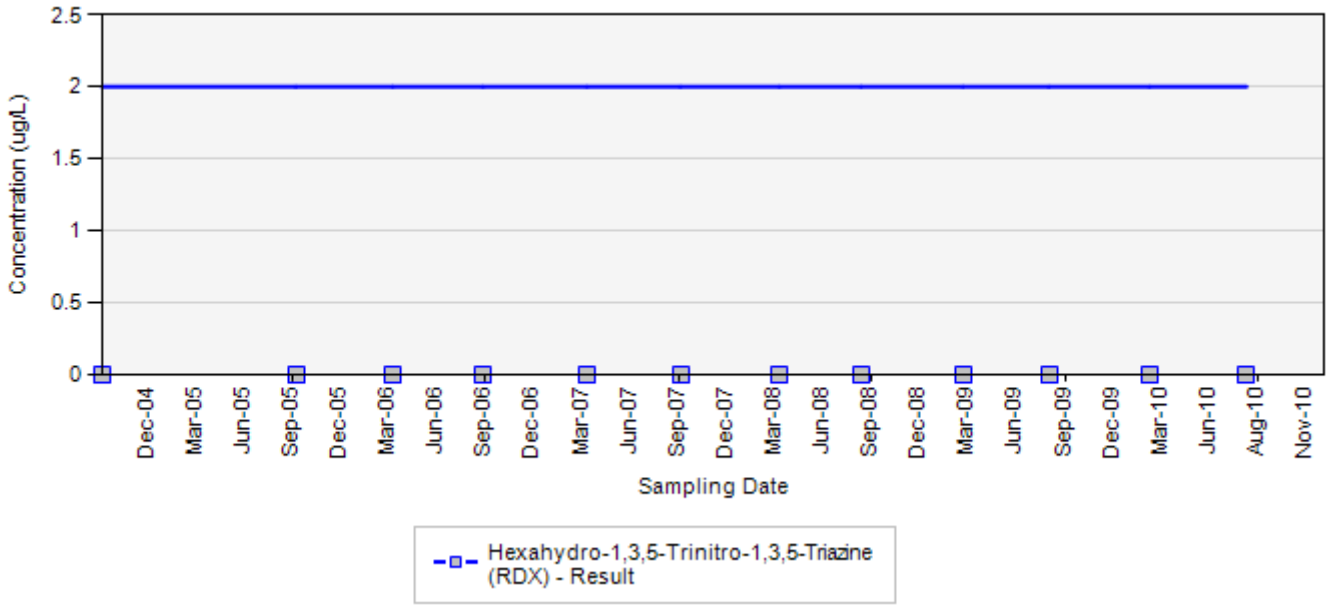

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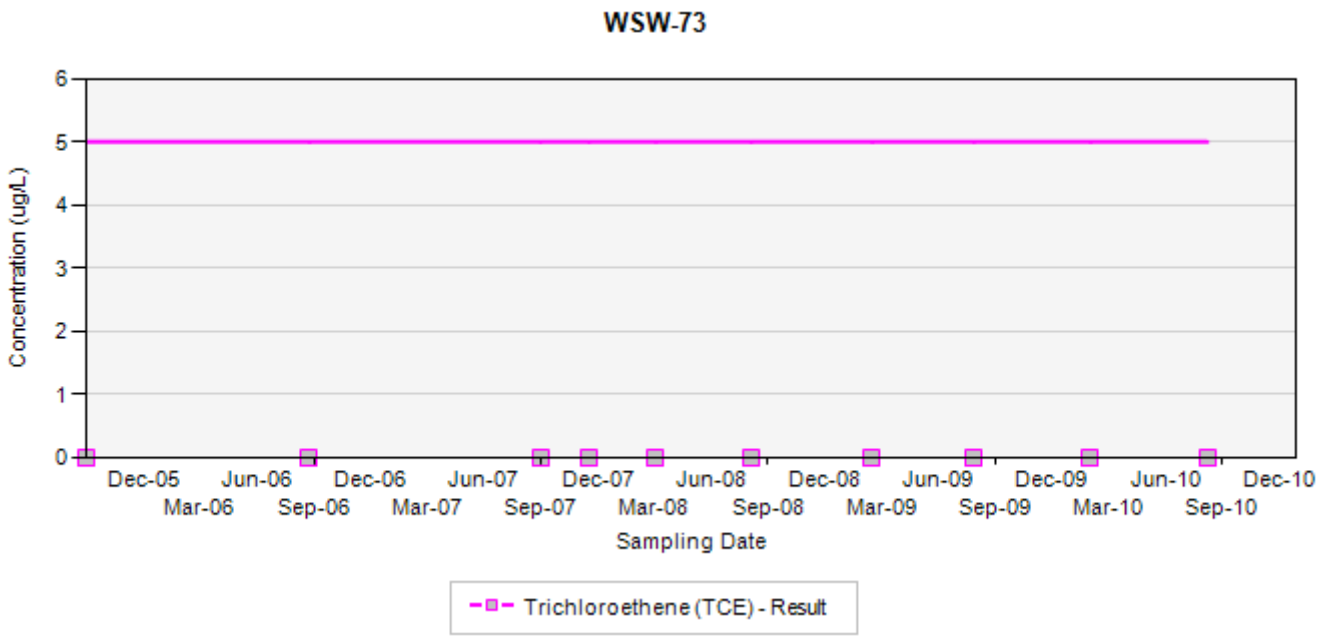

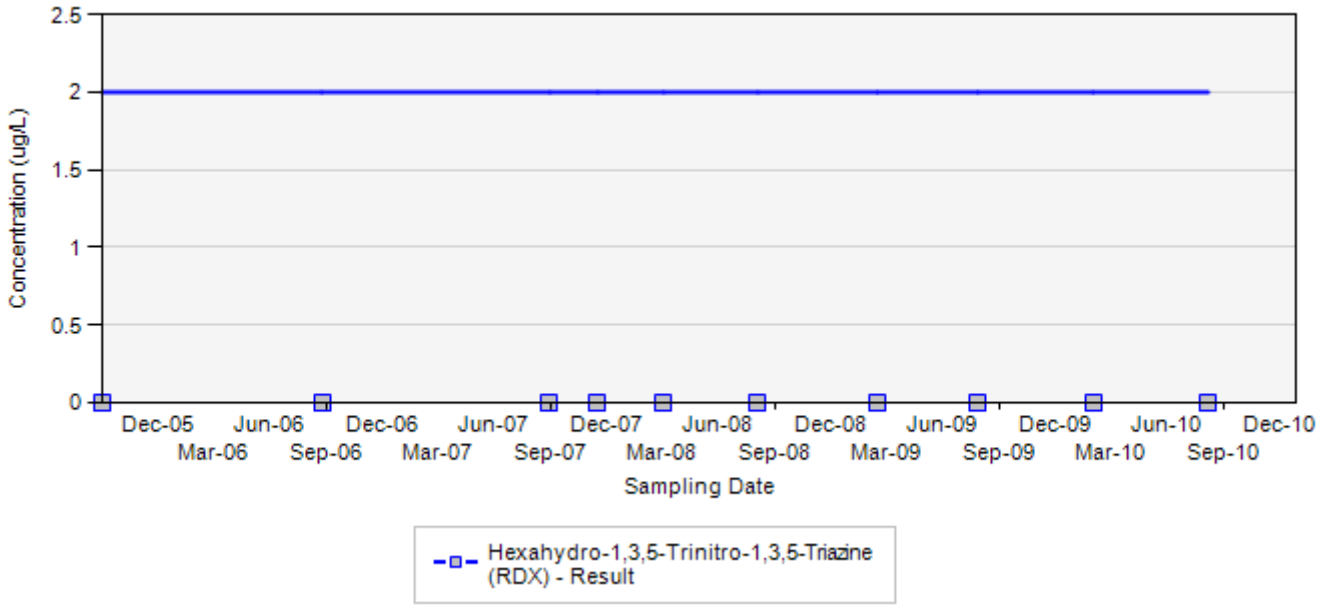

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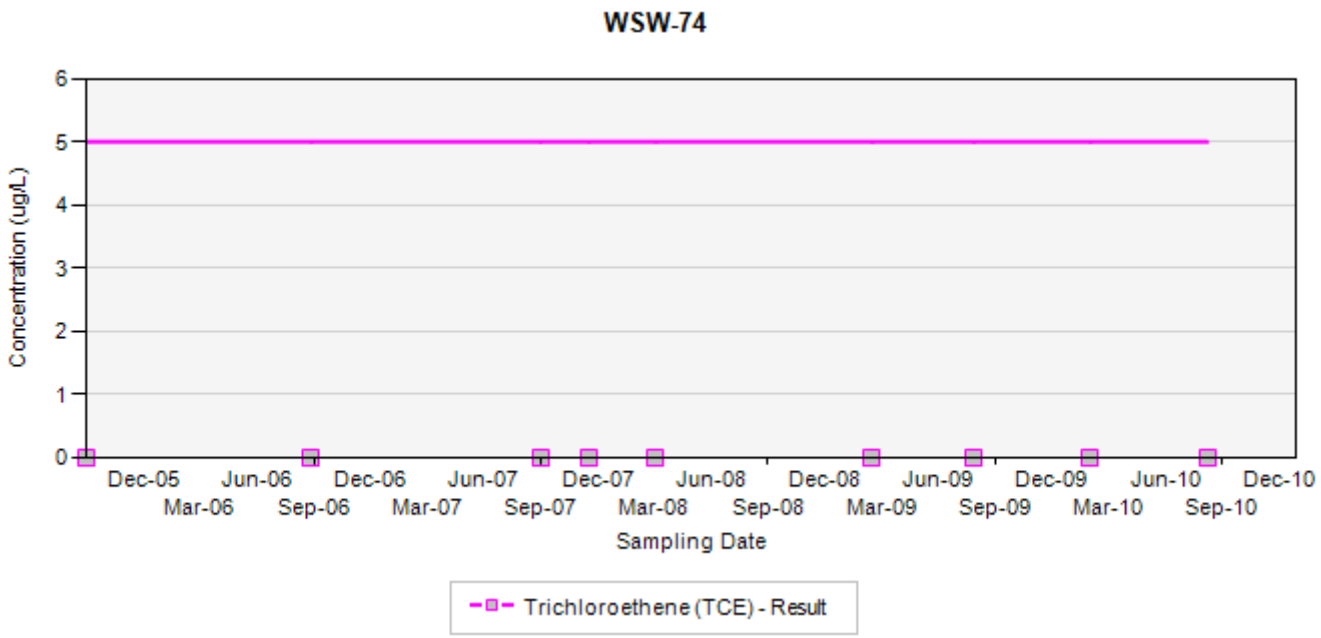
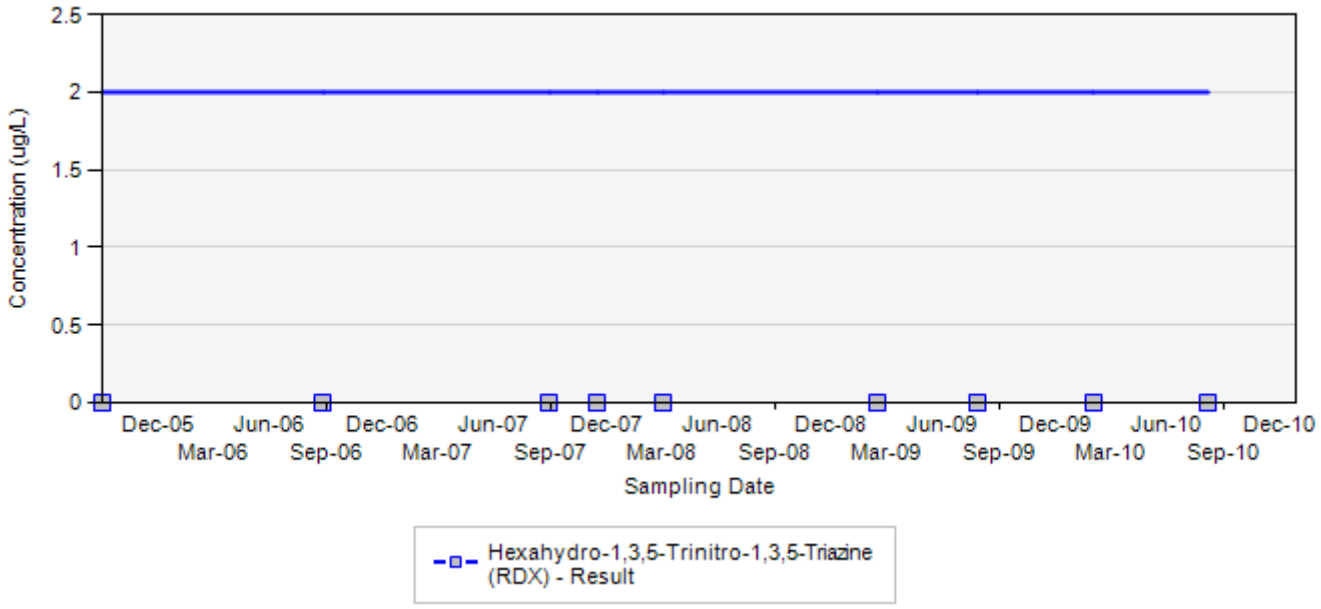
Concentration Trend Charts for Water Supply Wells





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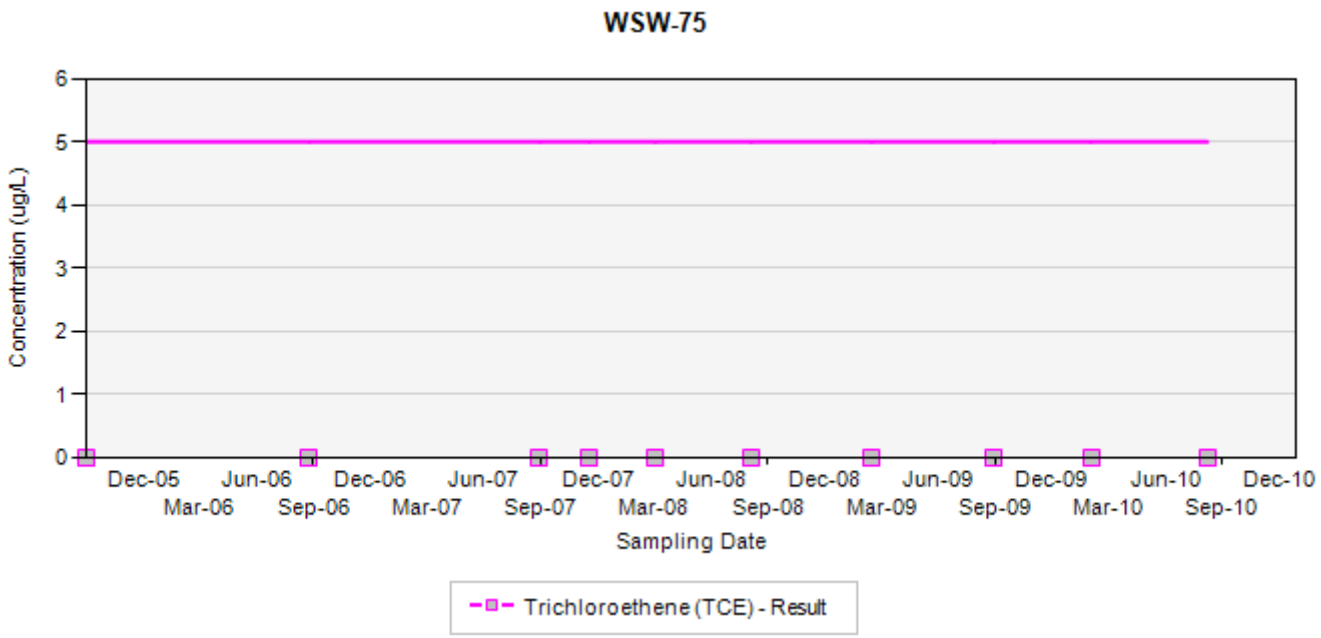

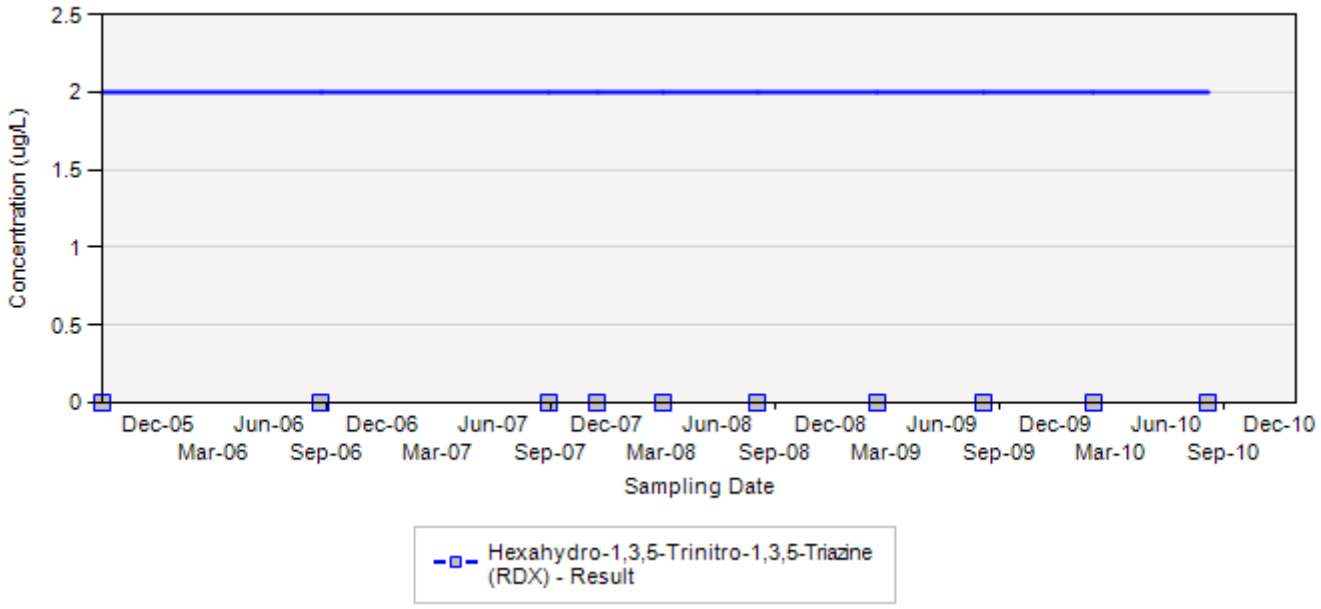

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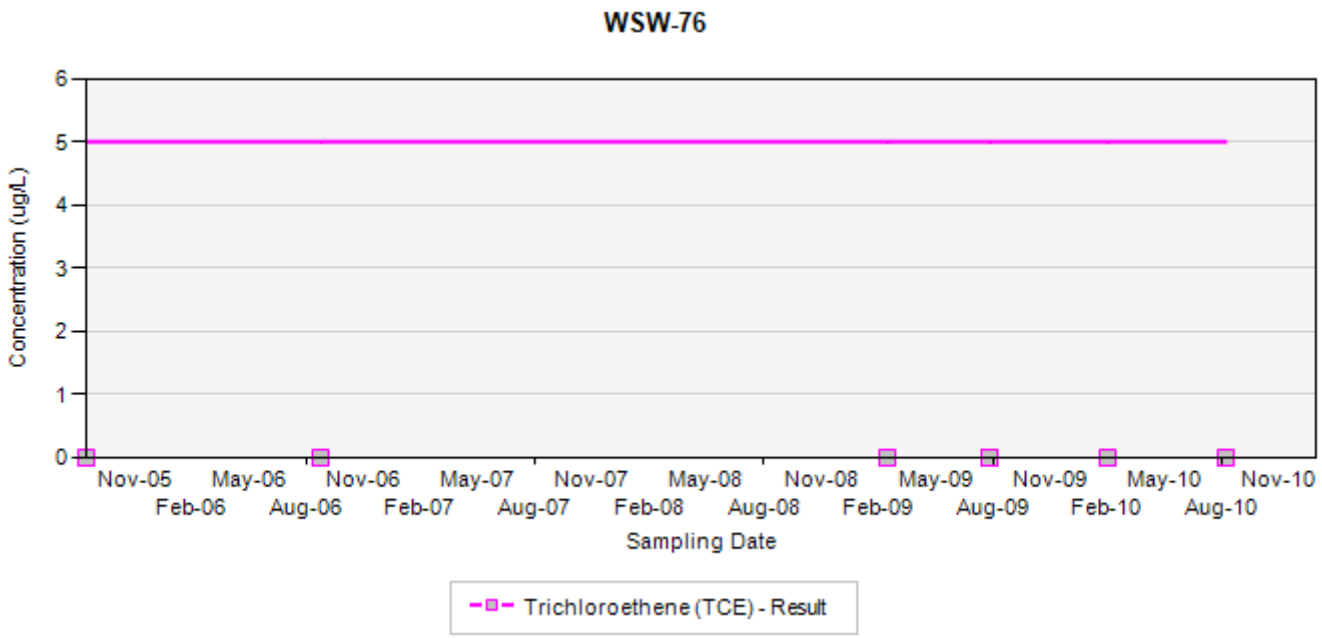

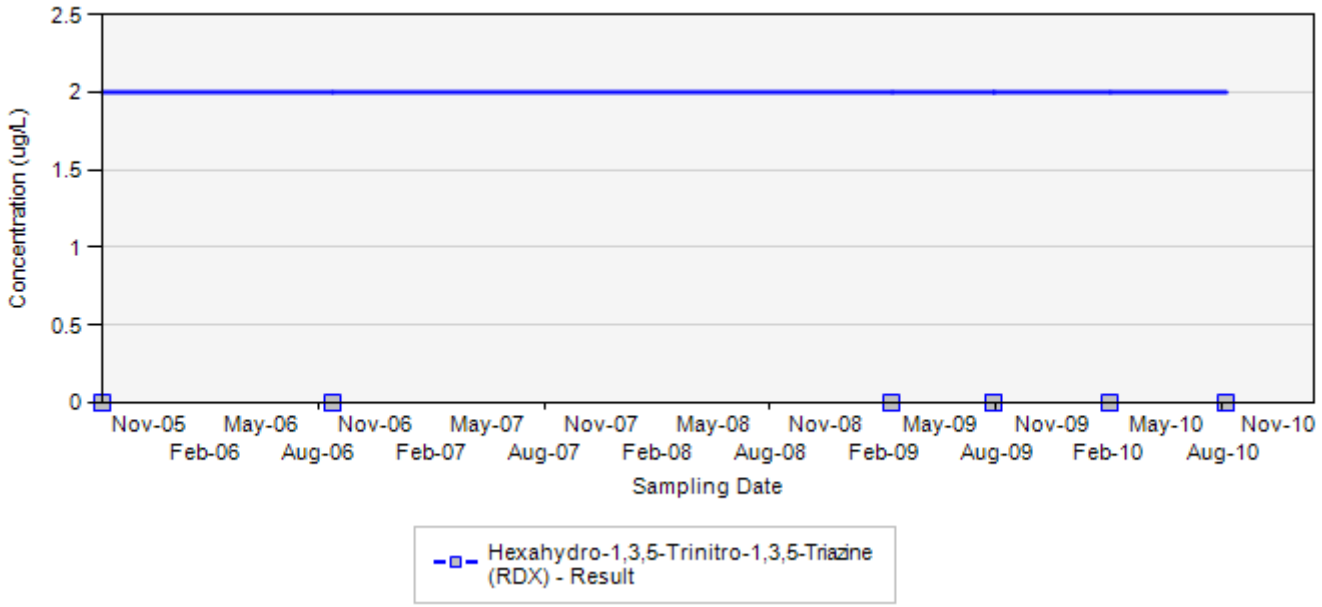

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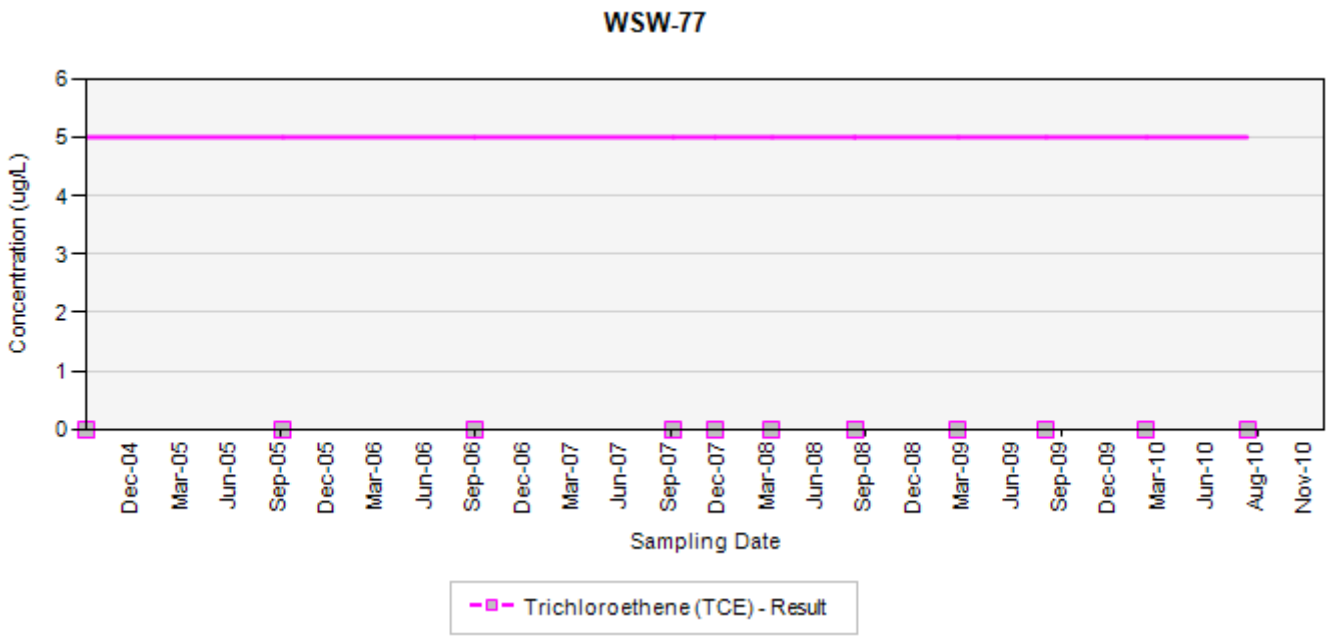

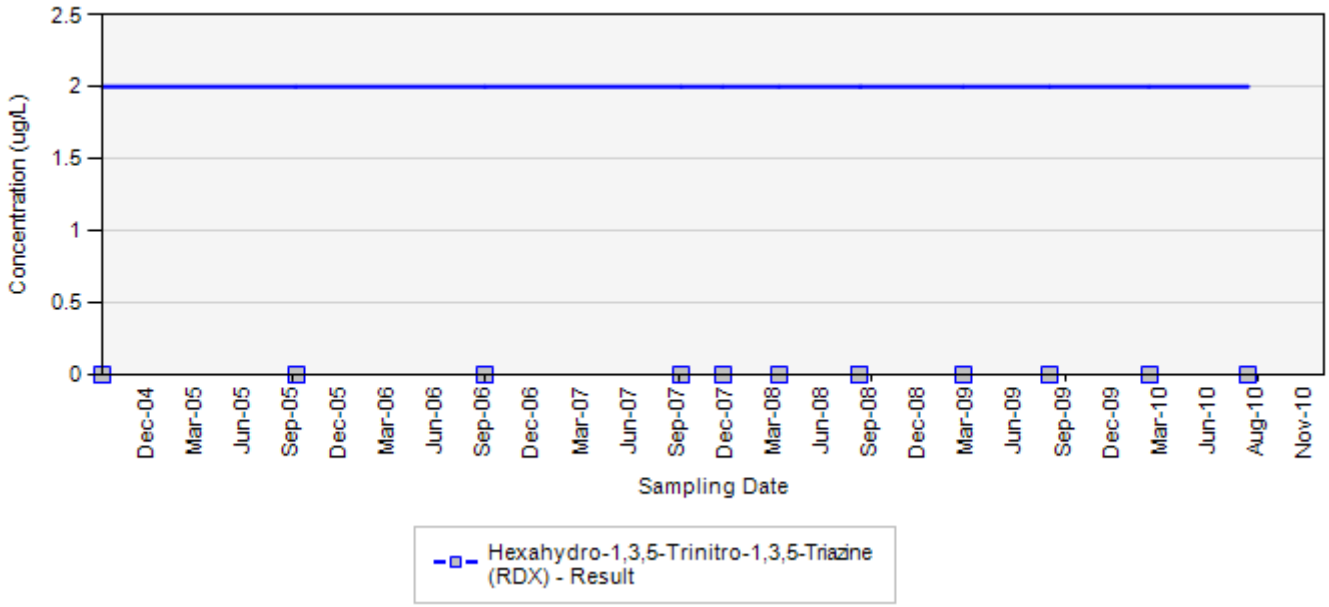

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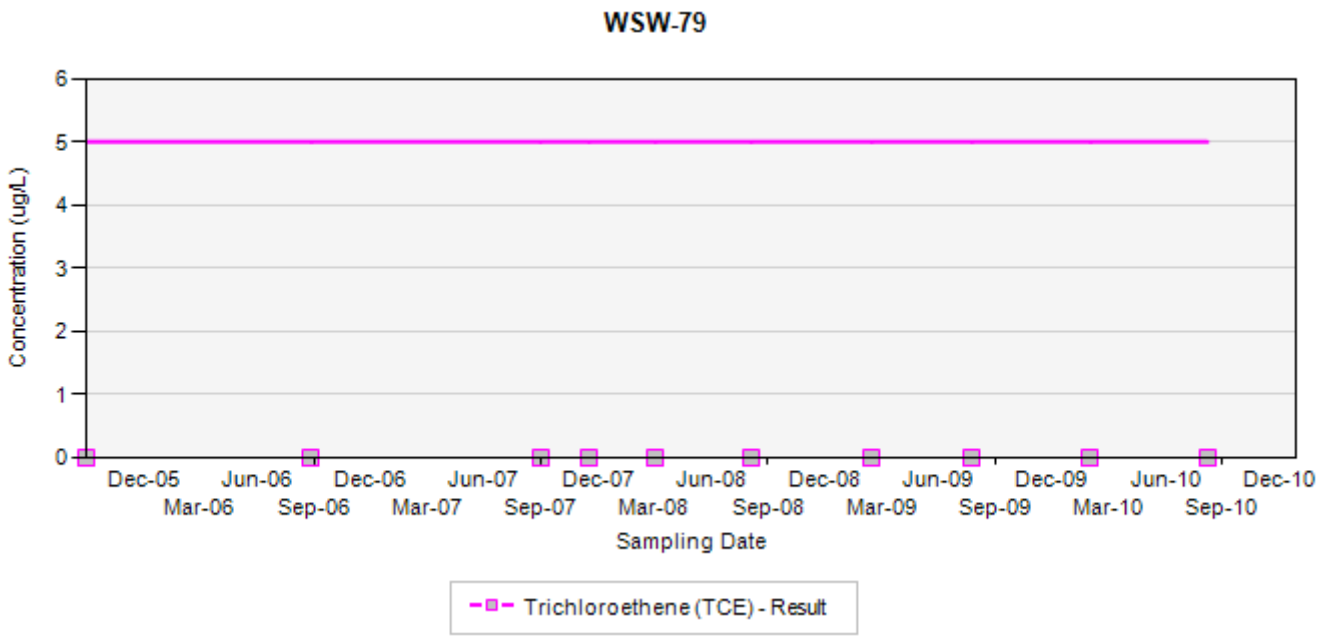

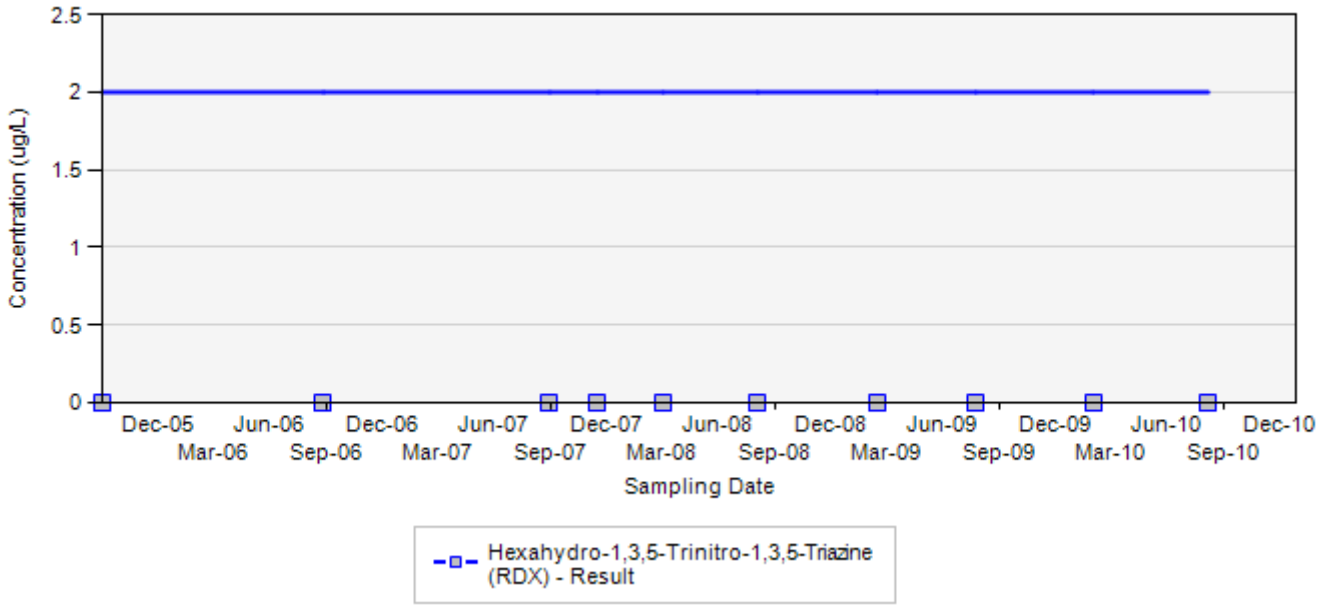

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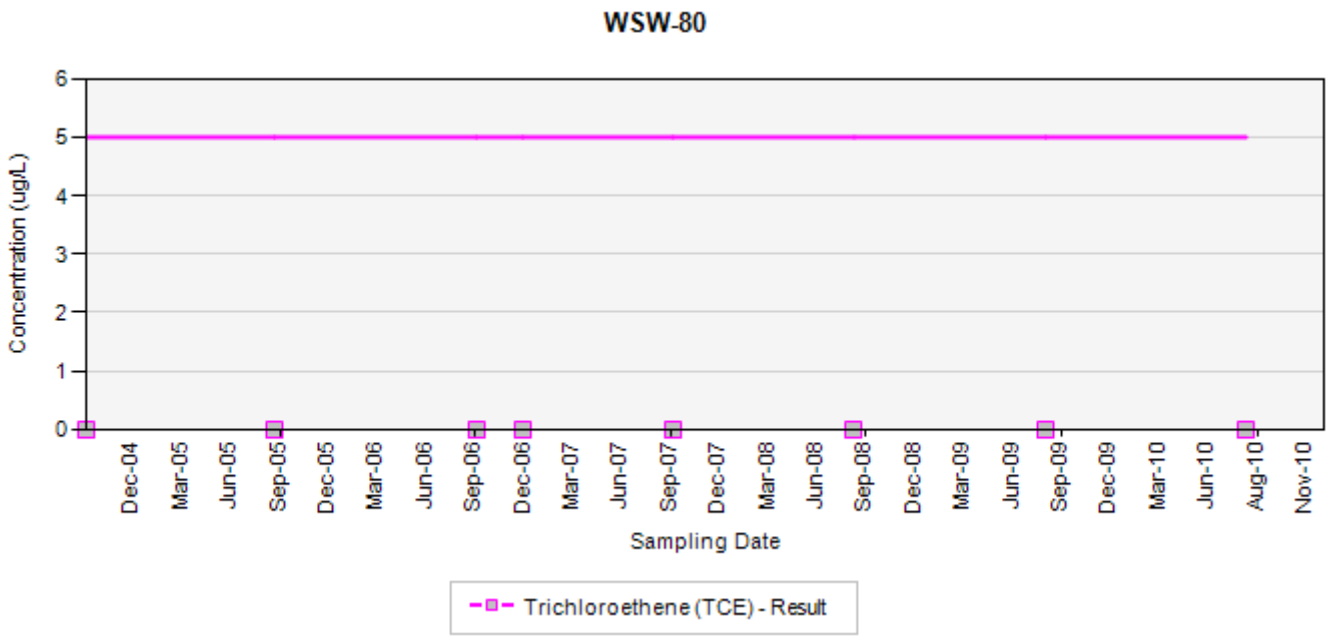

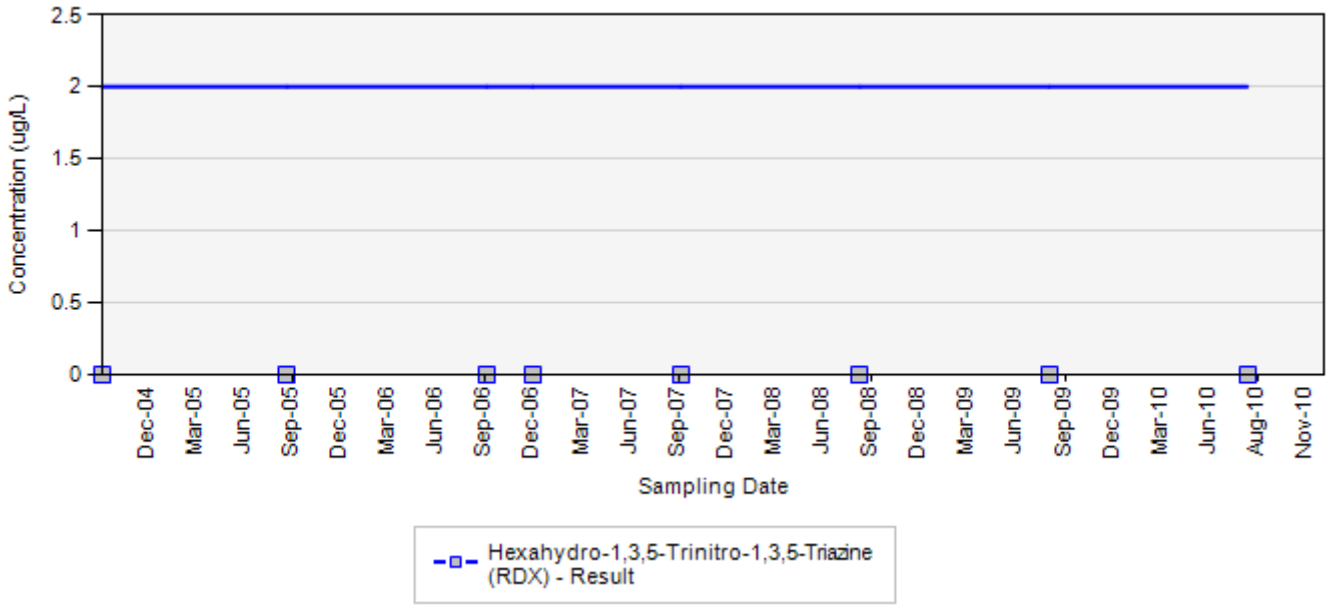

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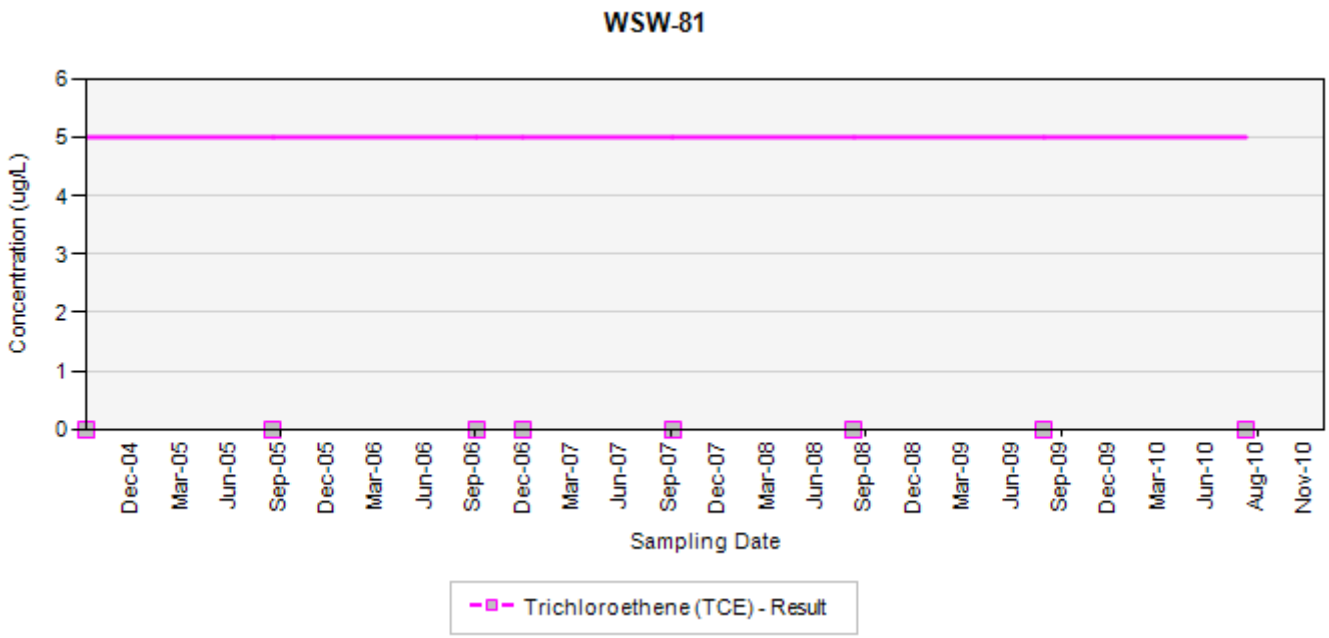

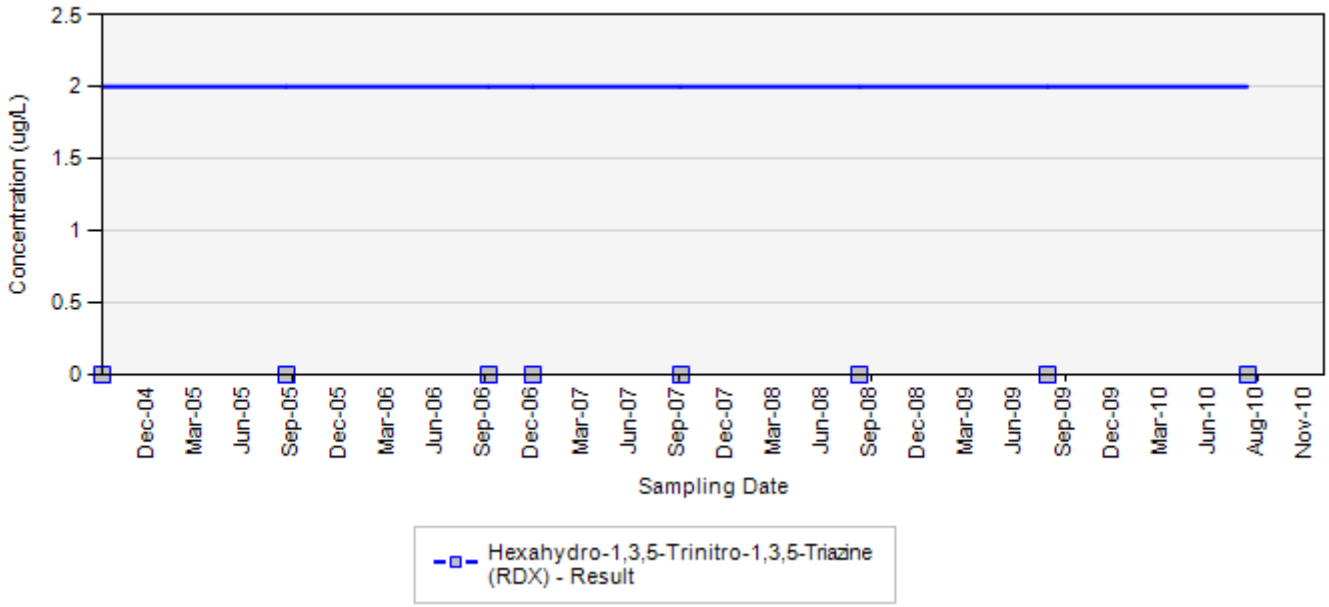

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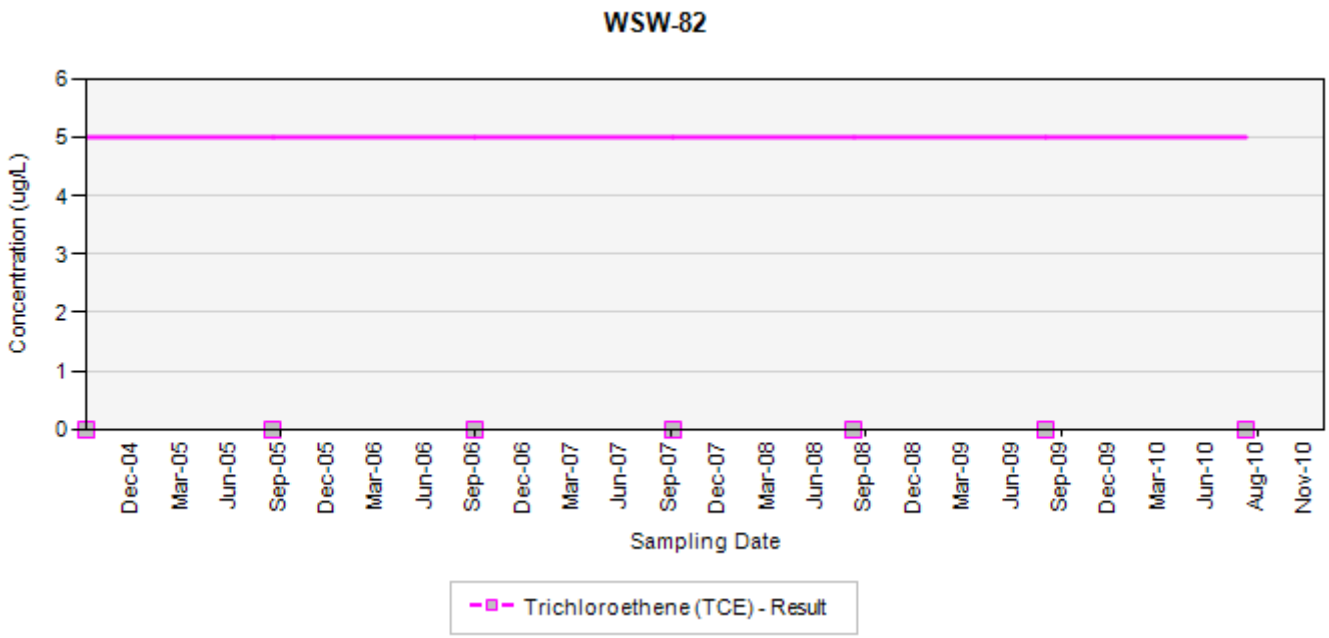

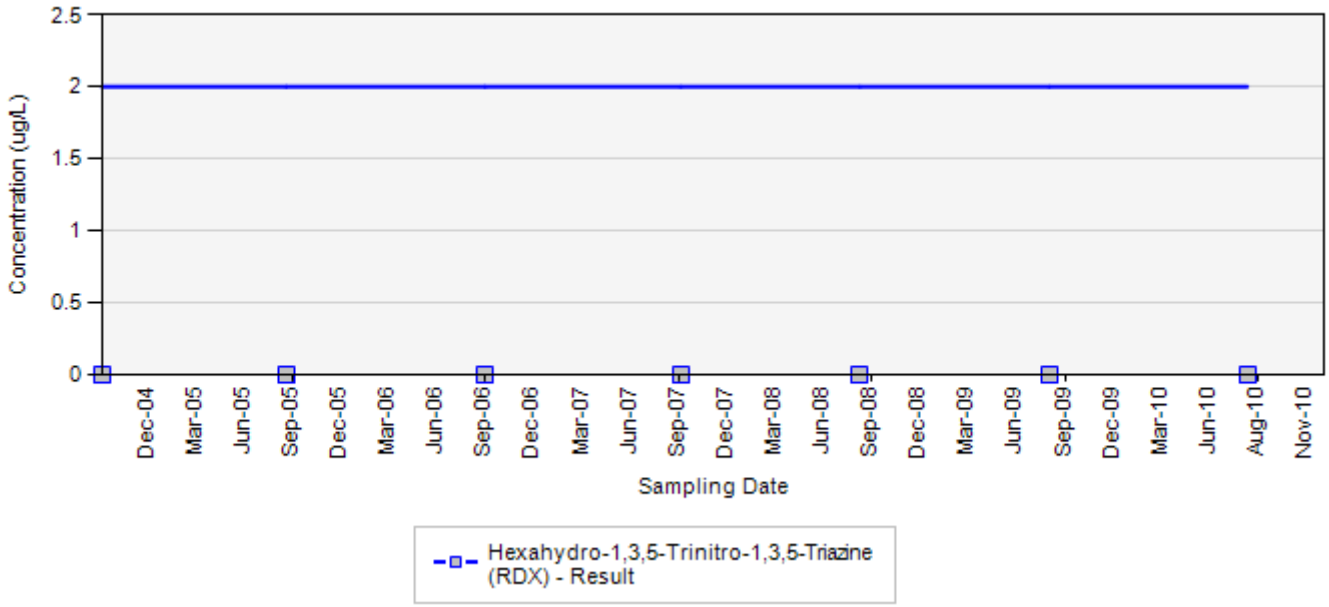

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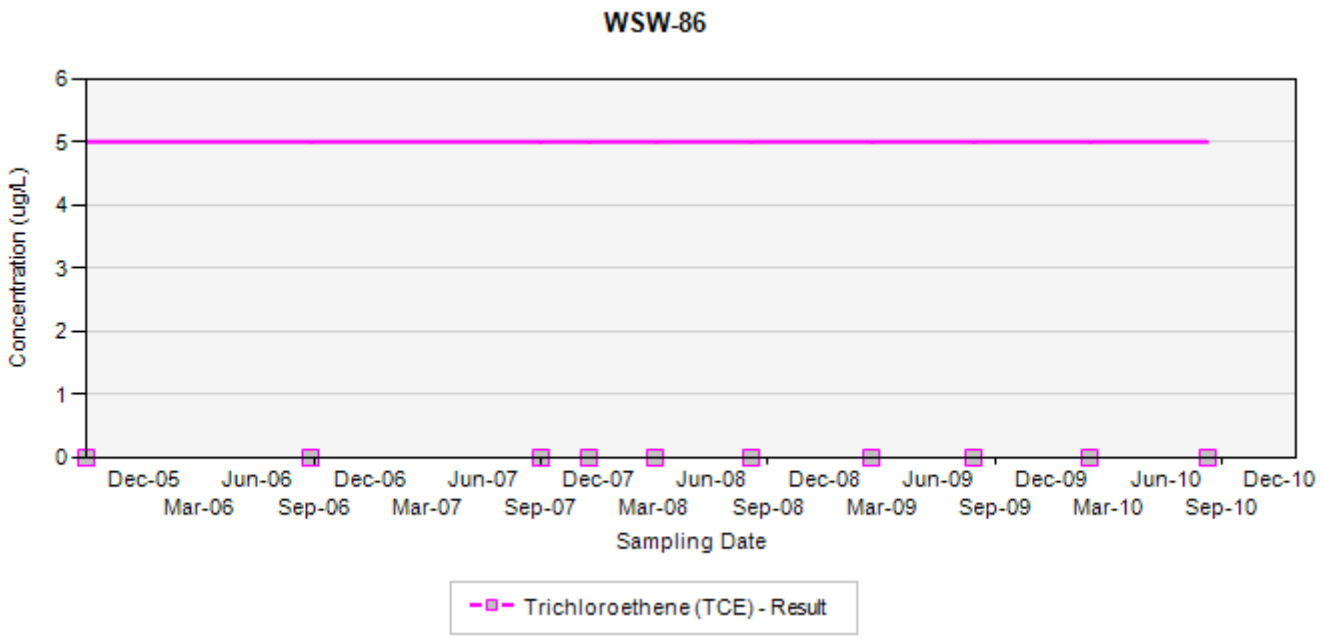

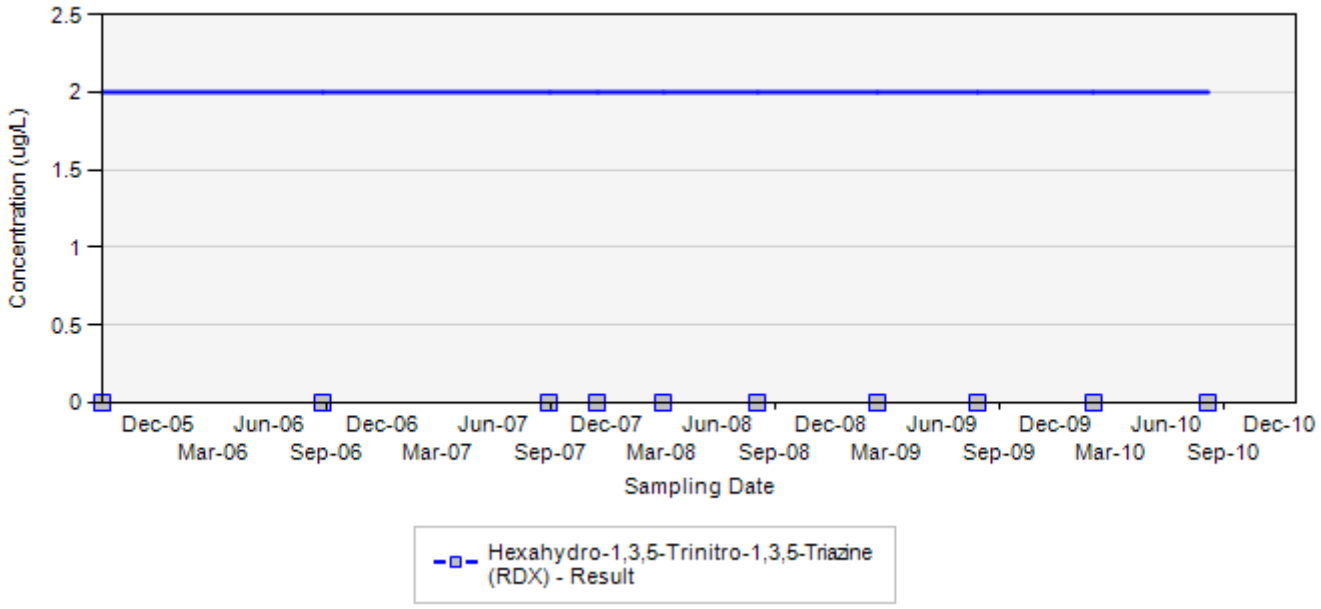

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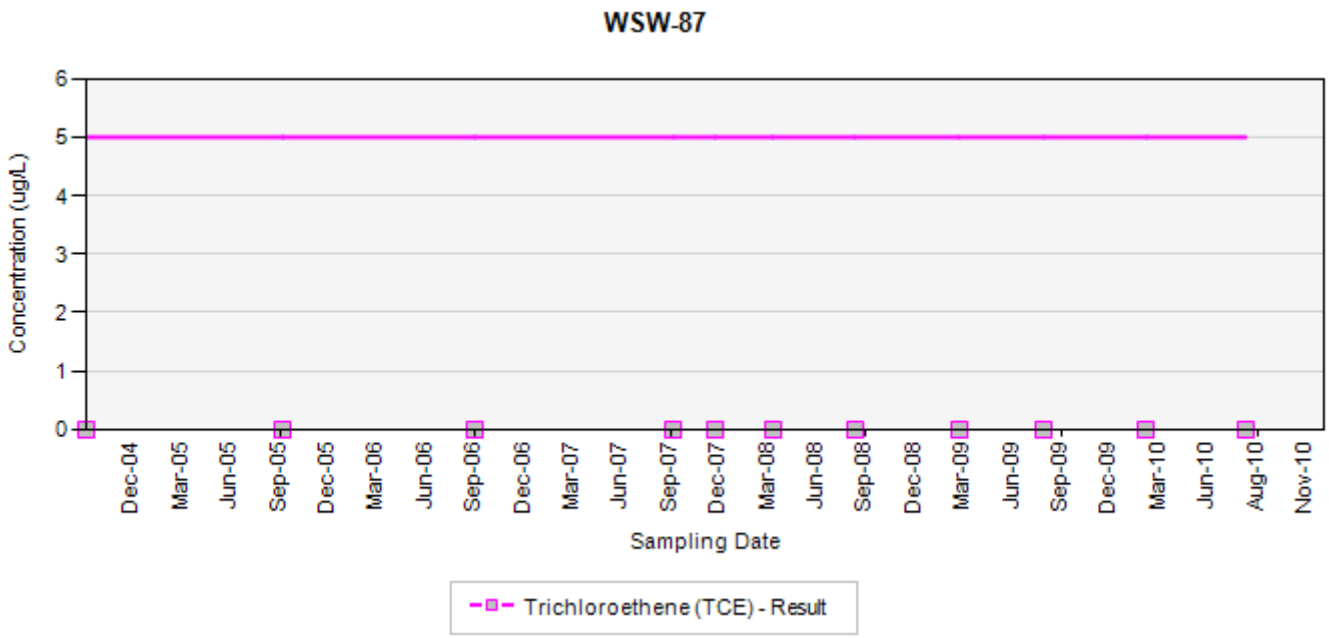

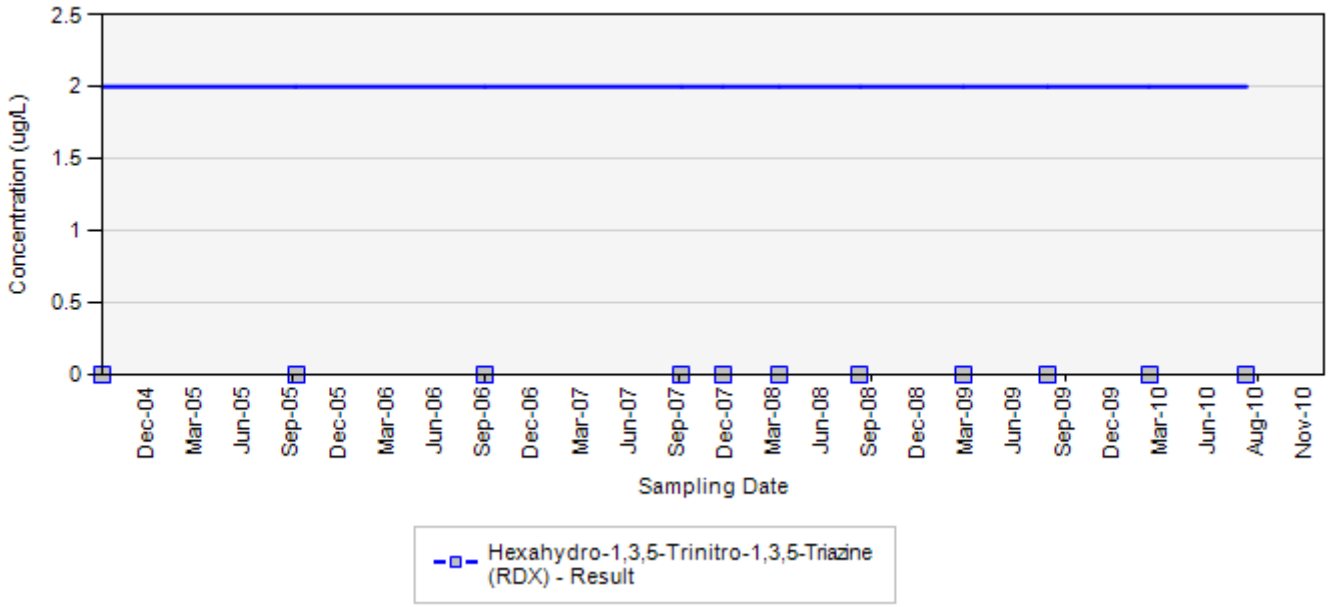

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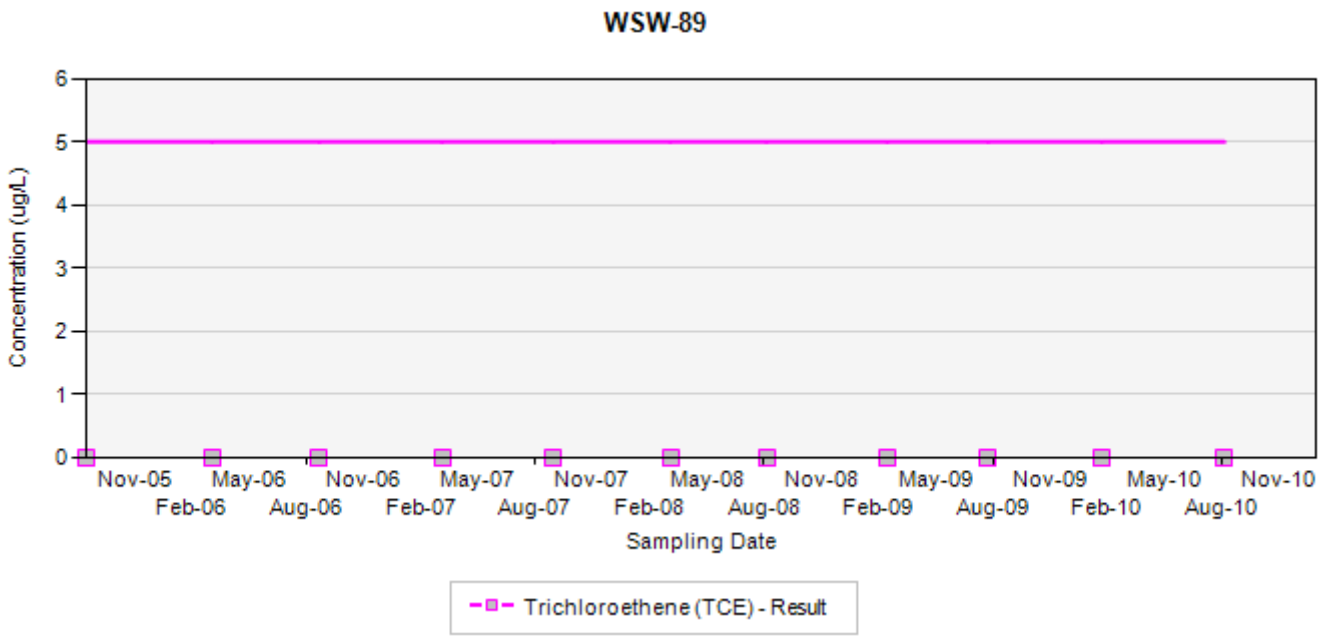

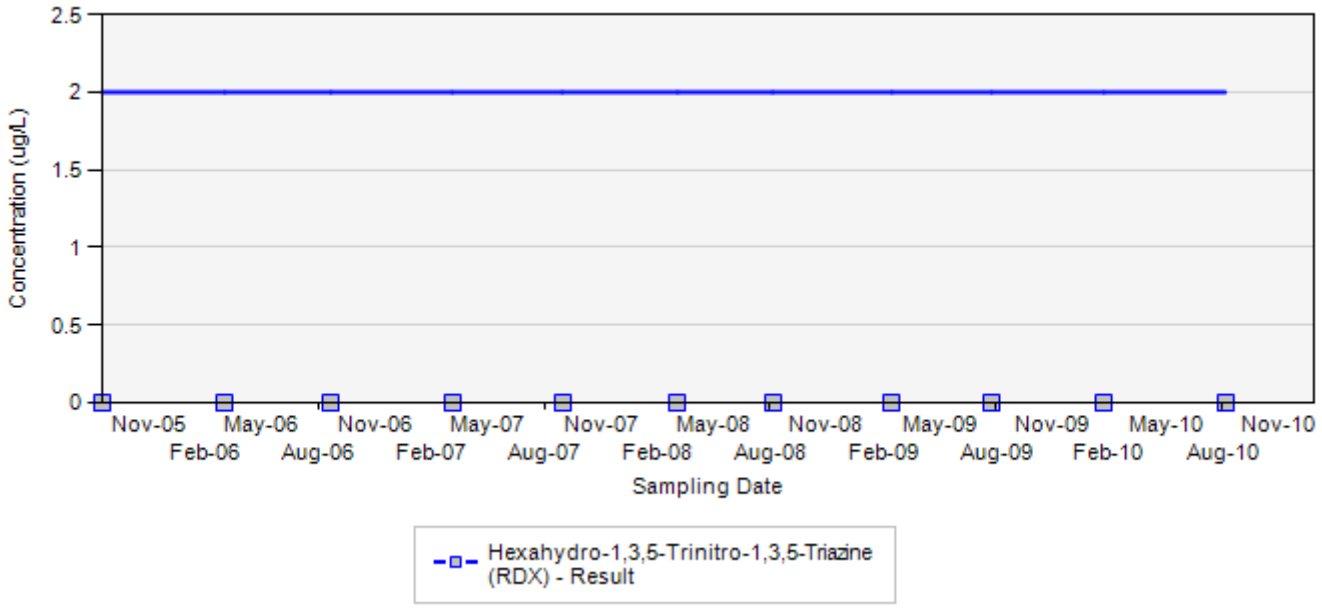

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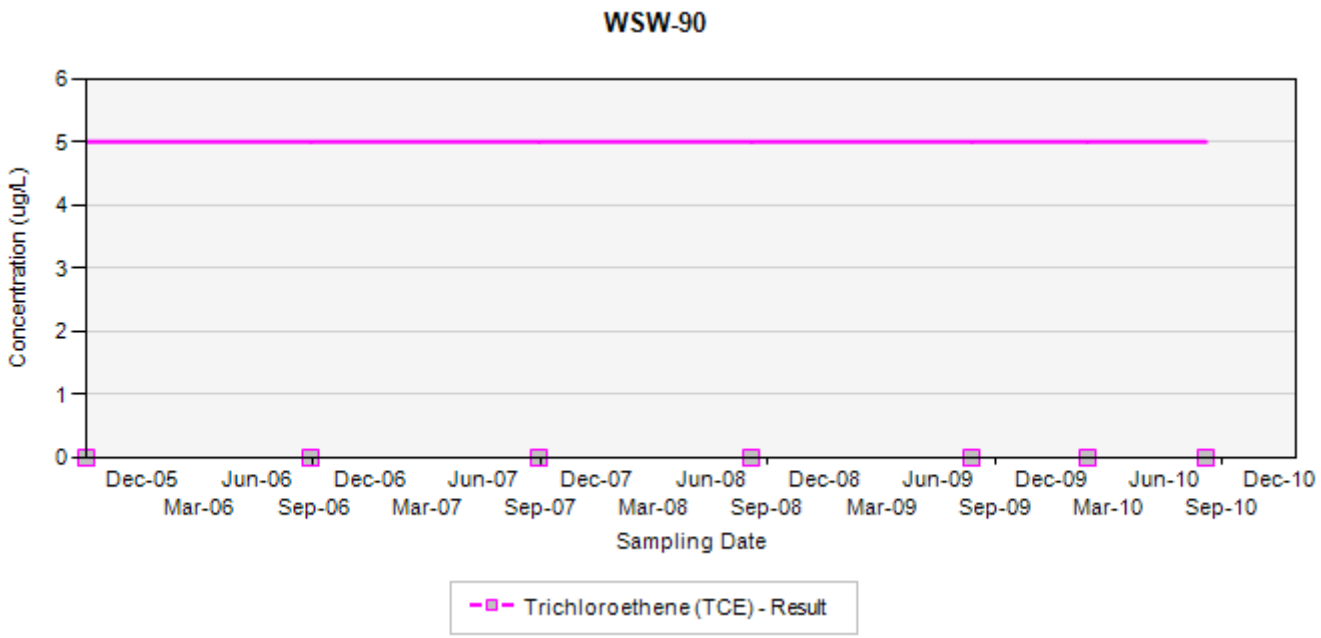

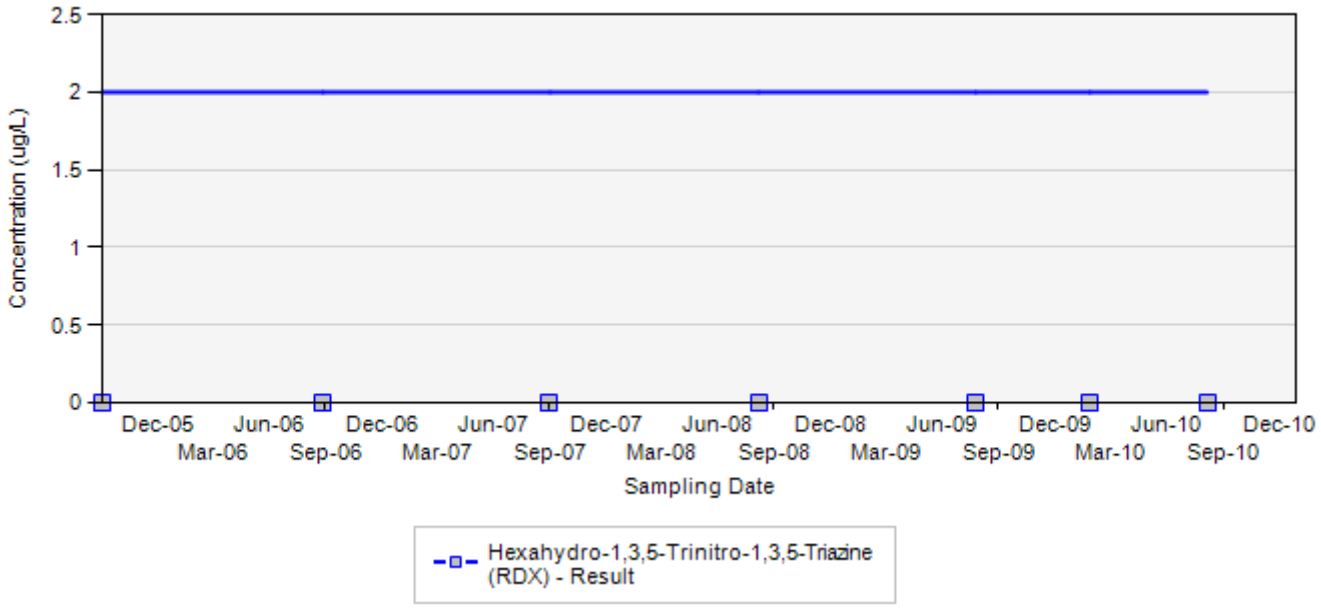

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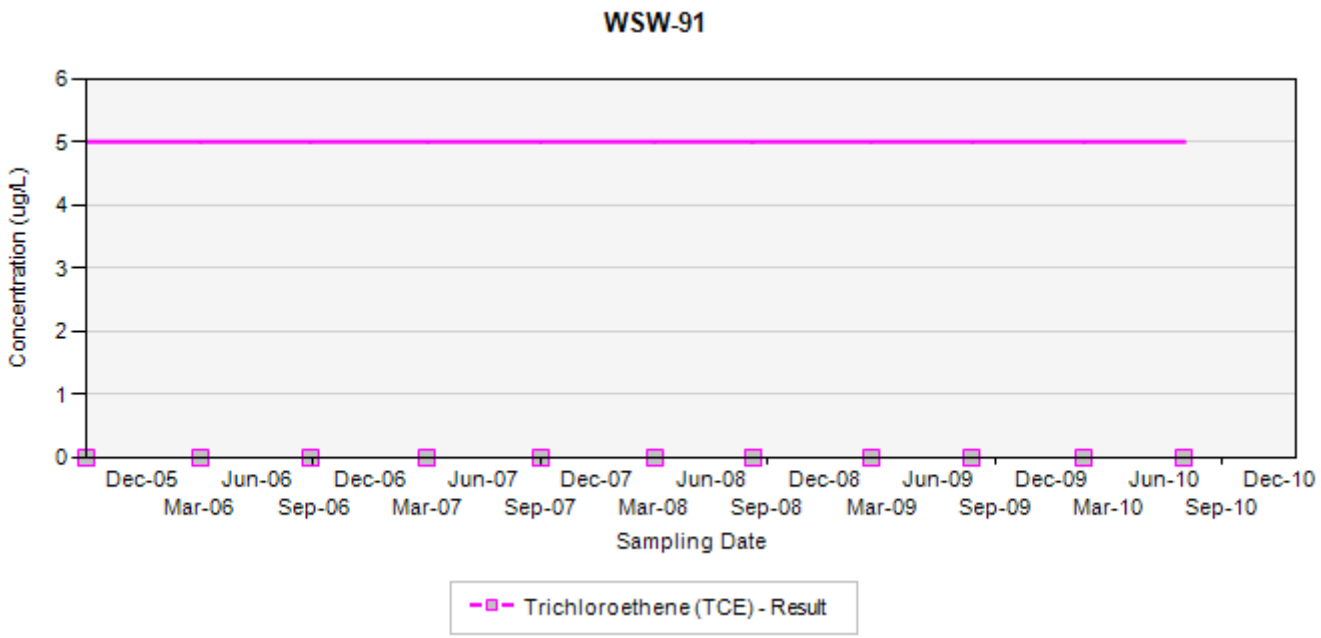

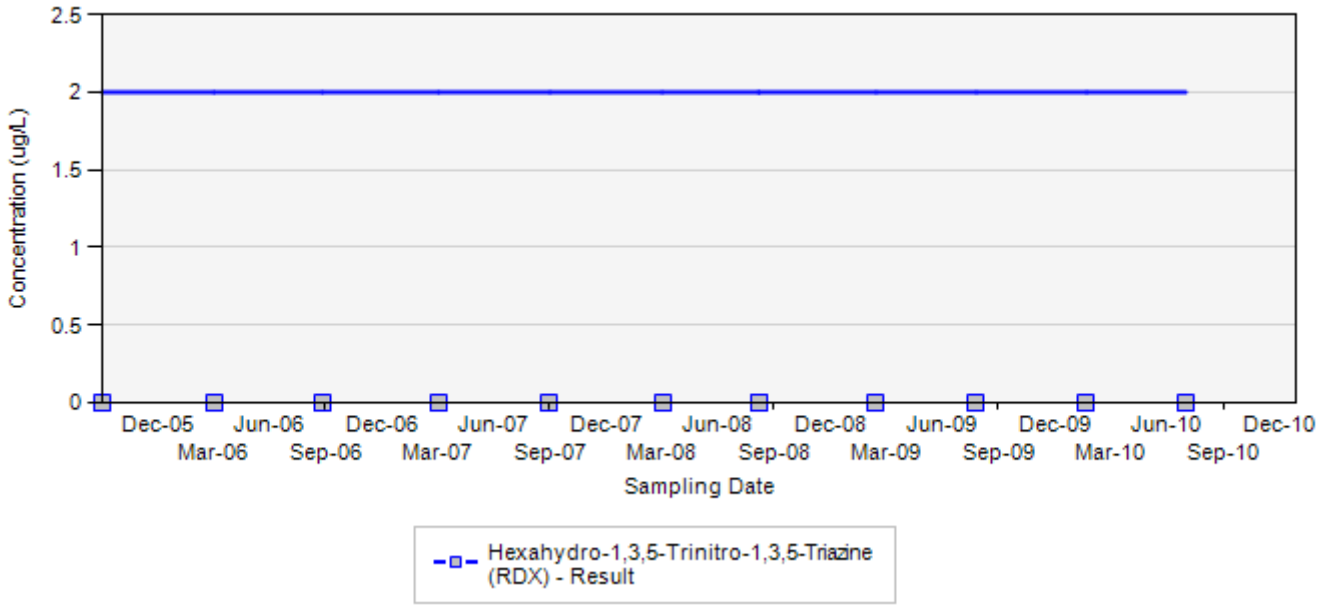

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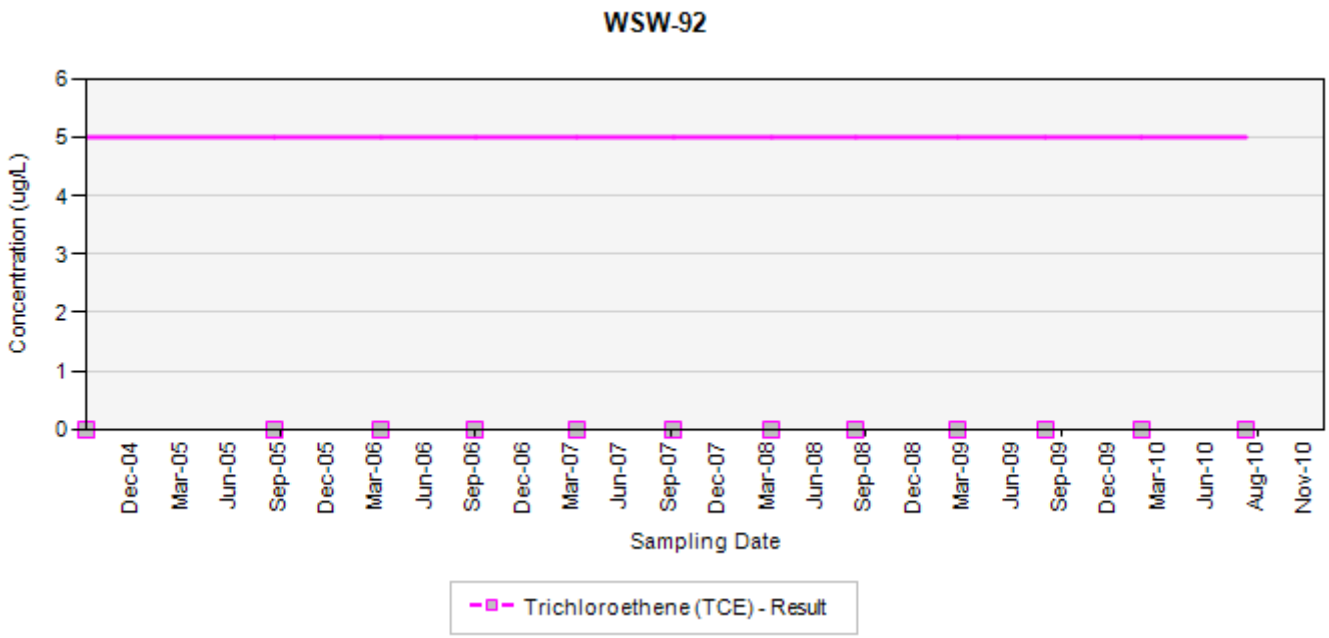

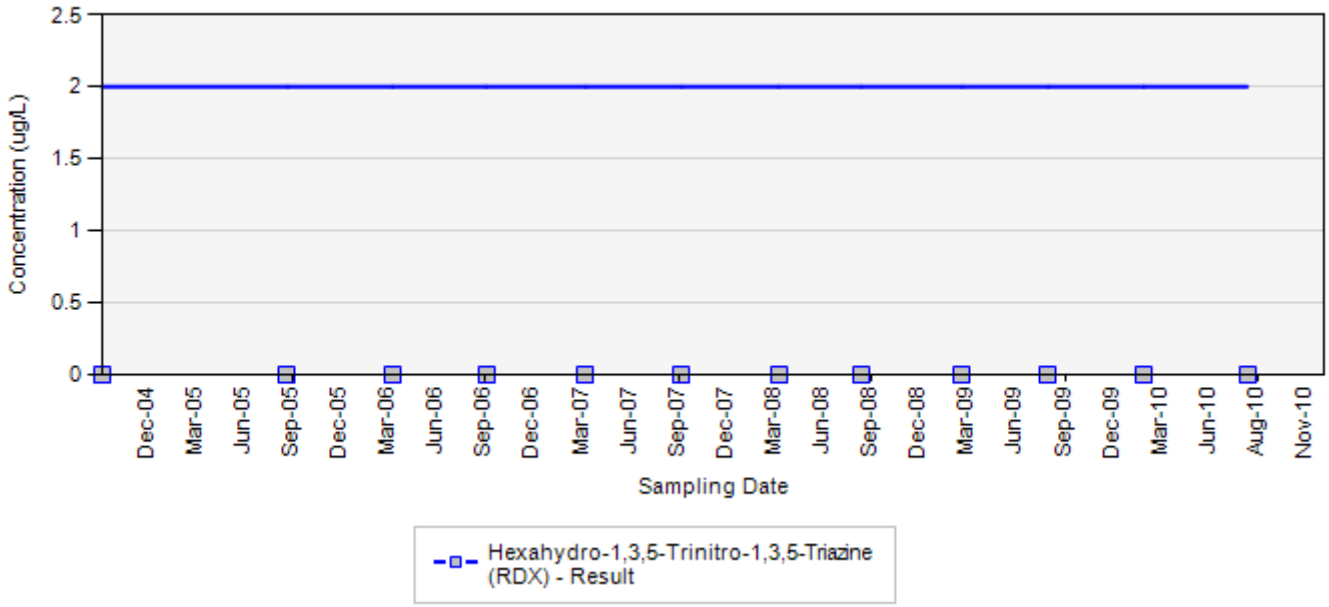

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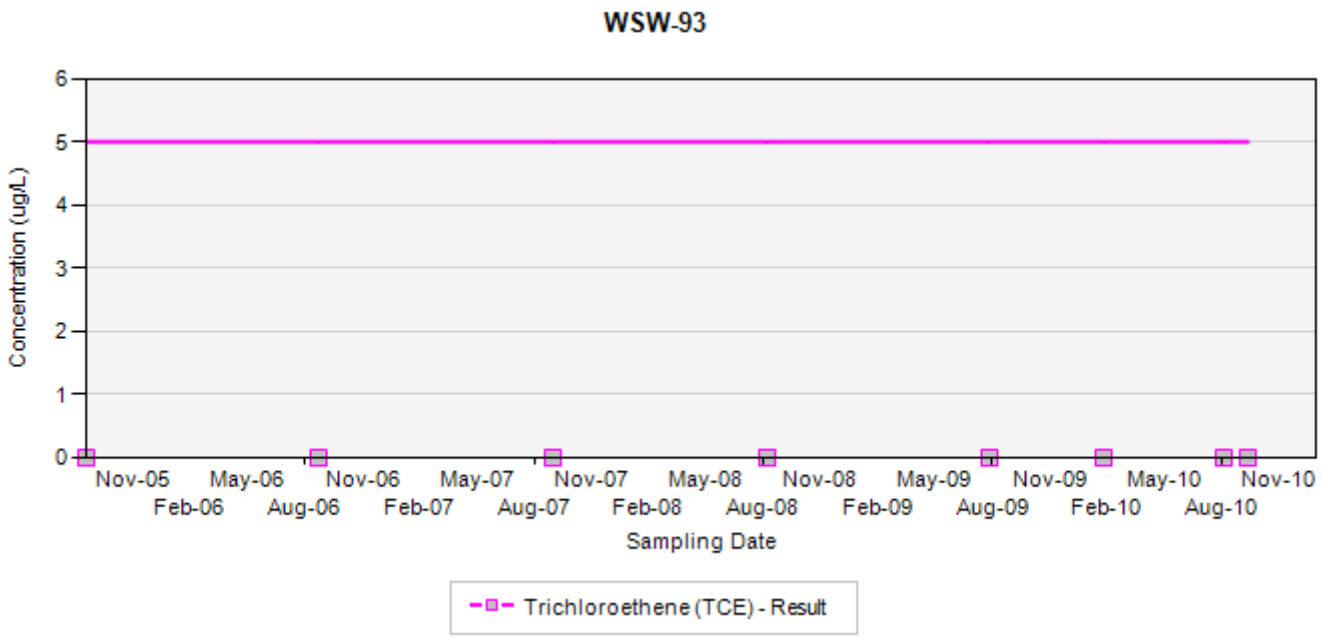

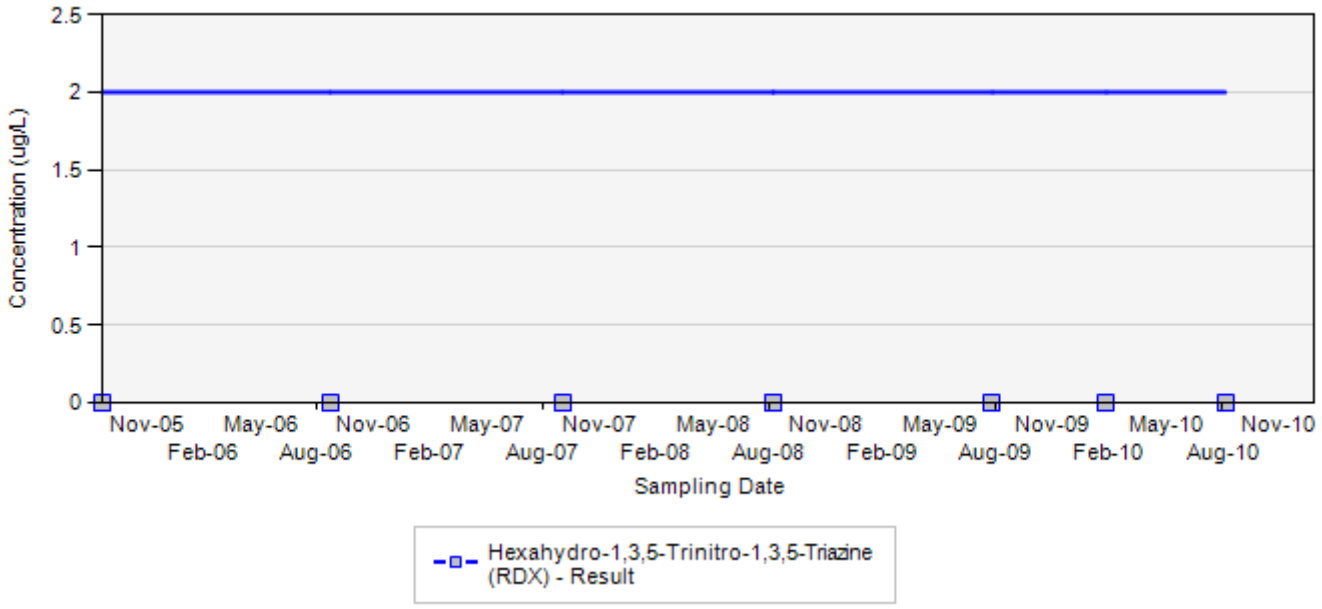

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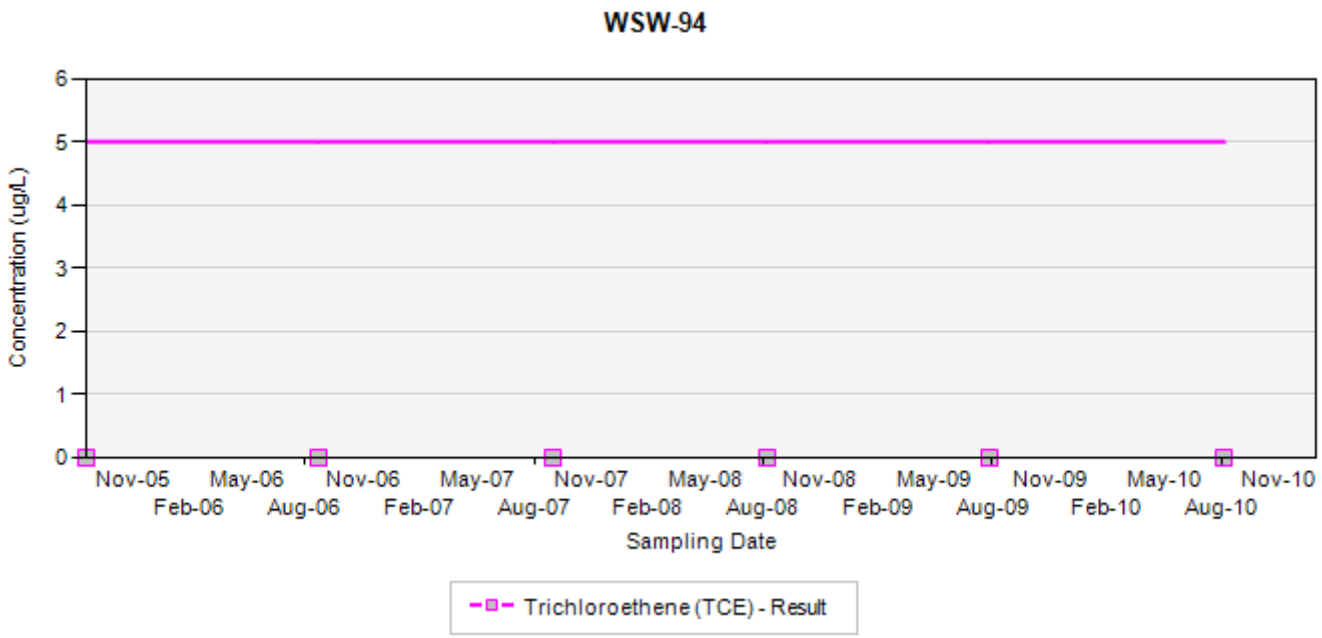

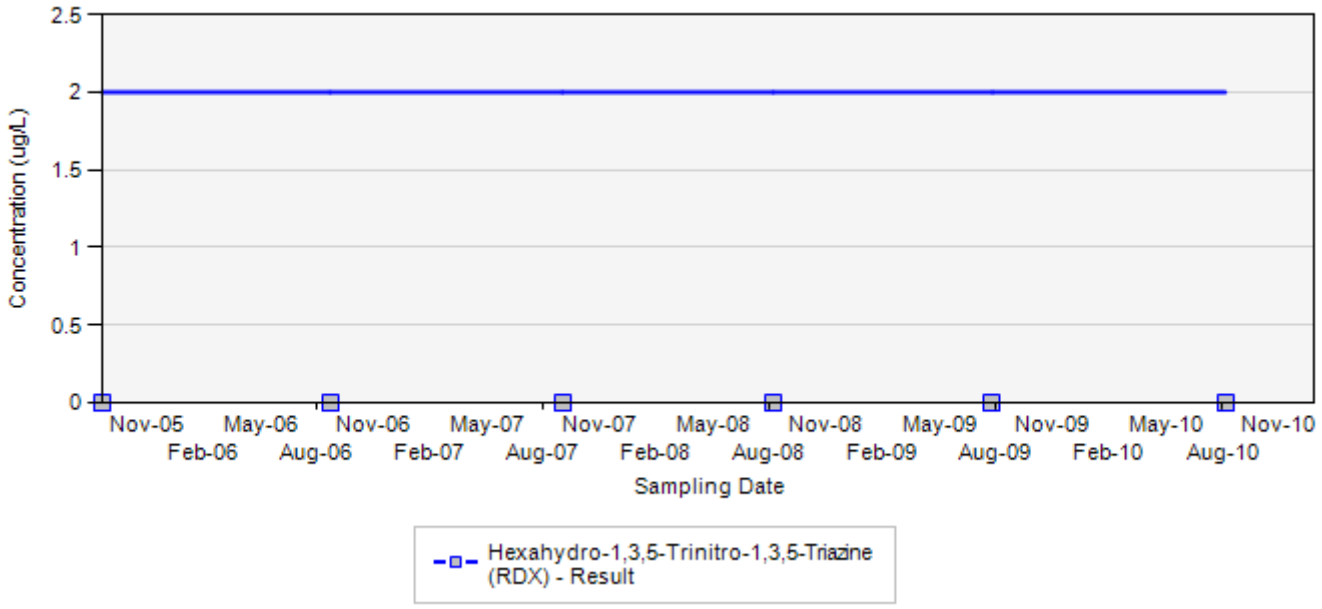

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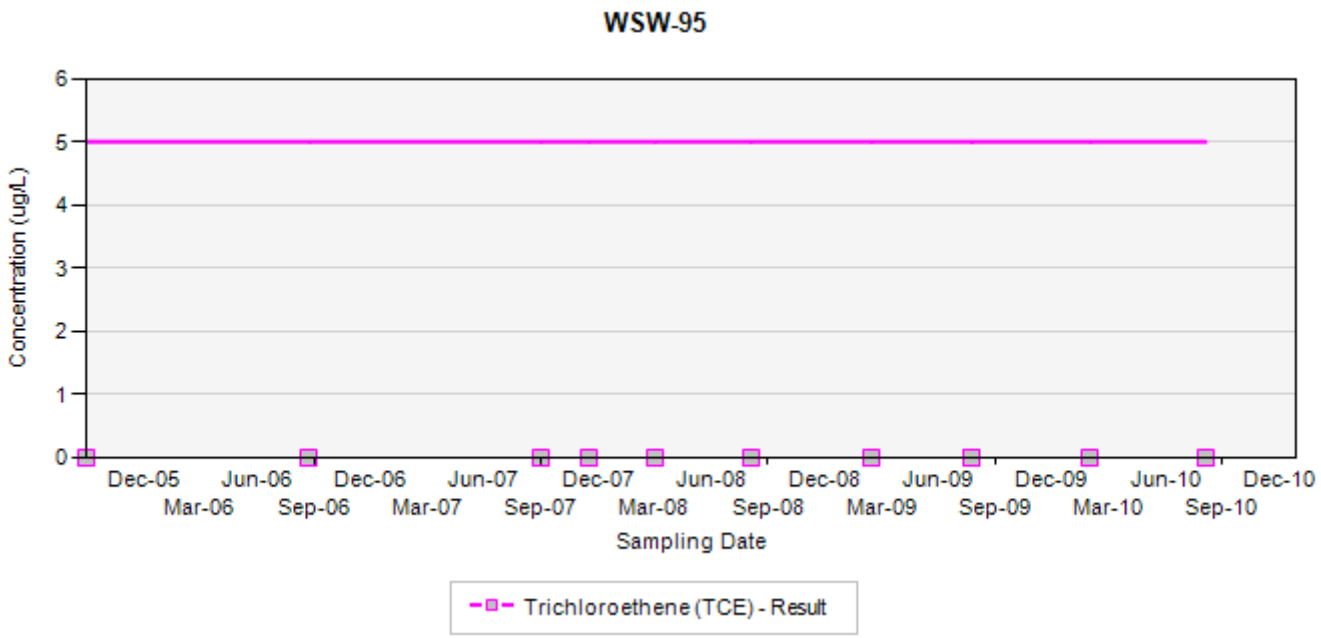

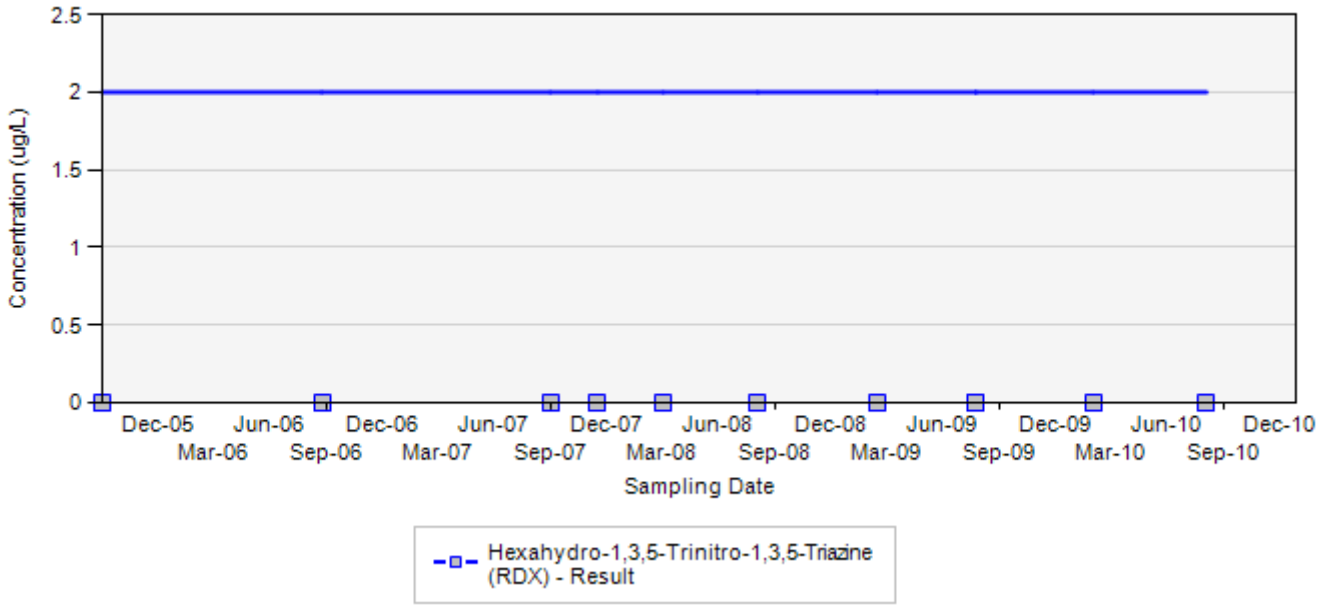

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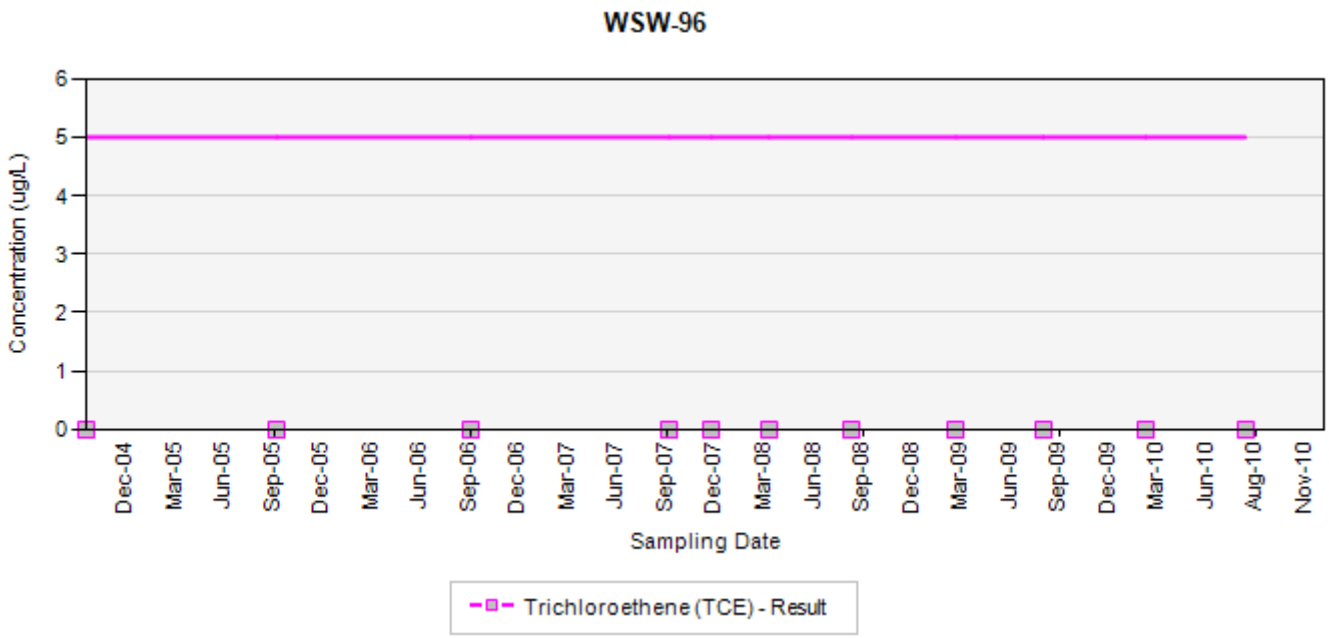

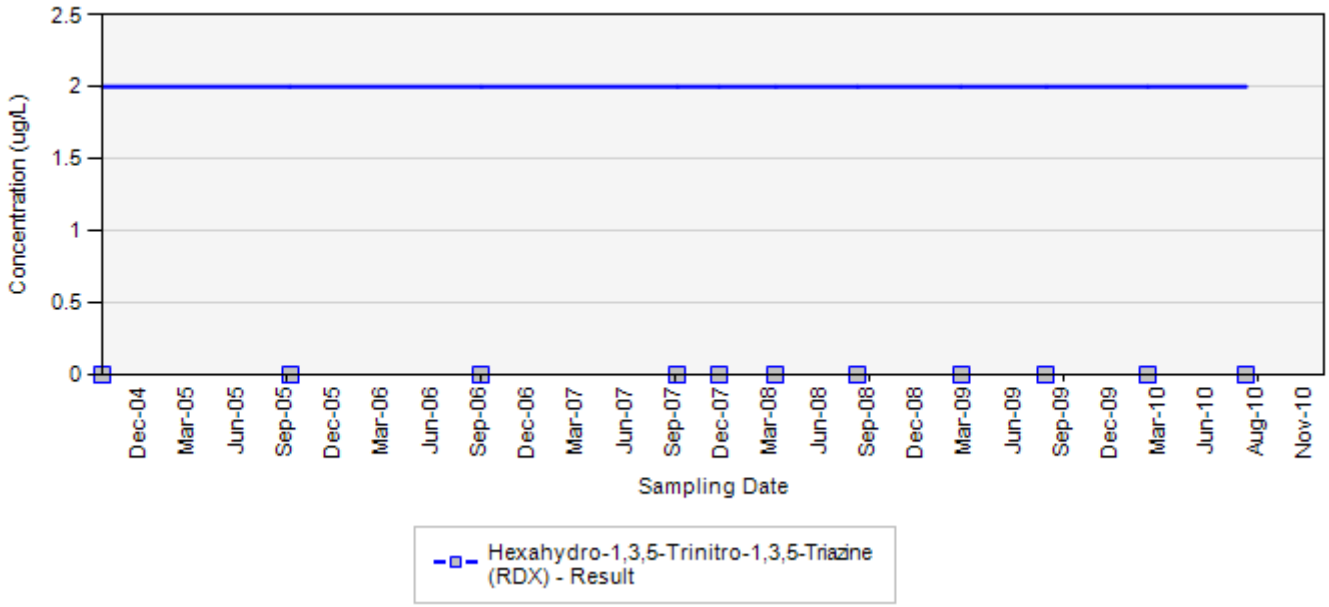

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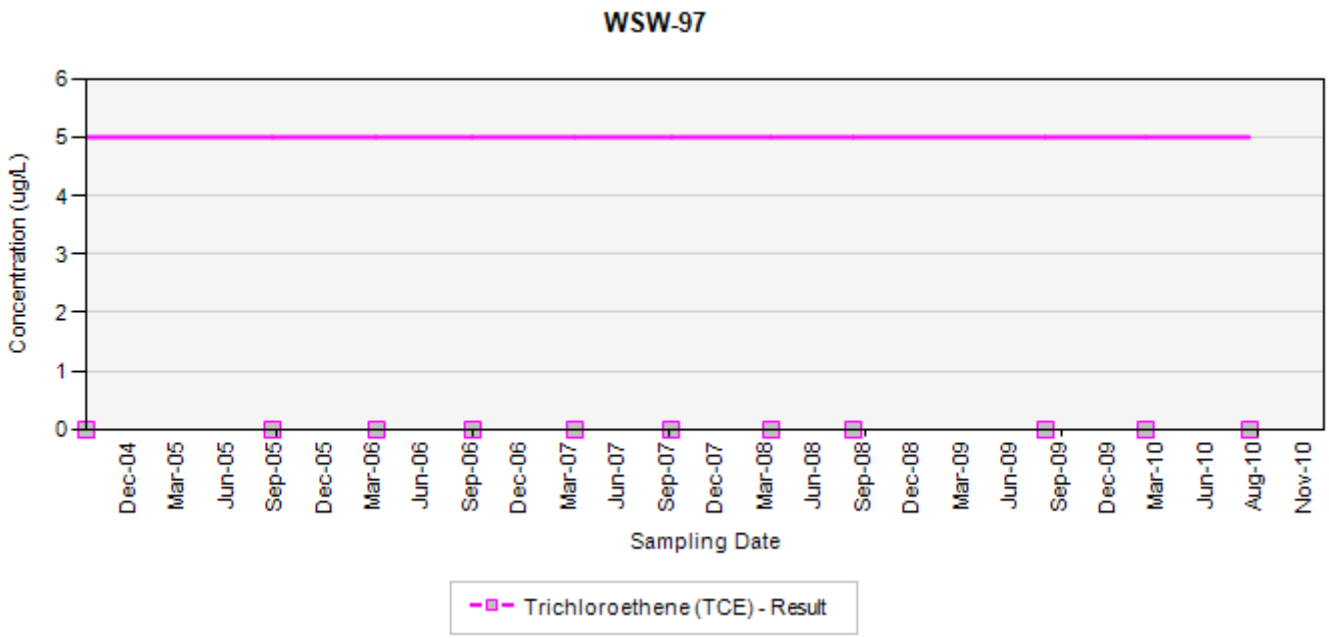

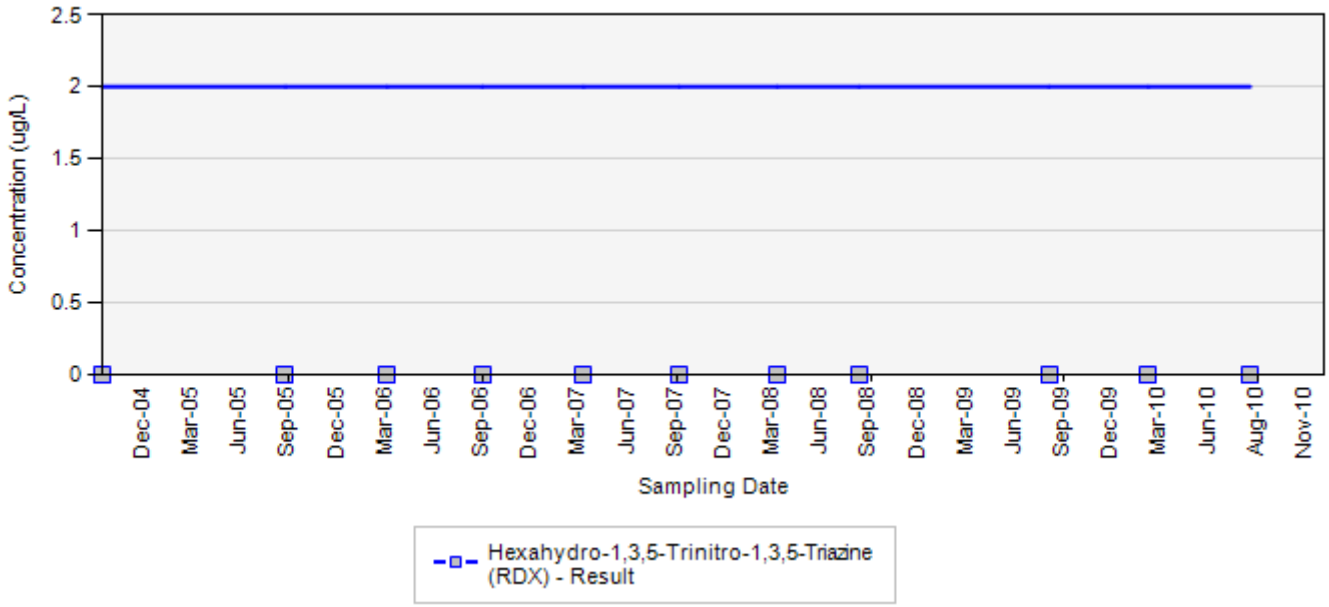

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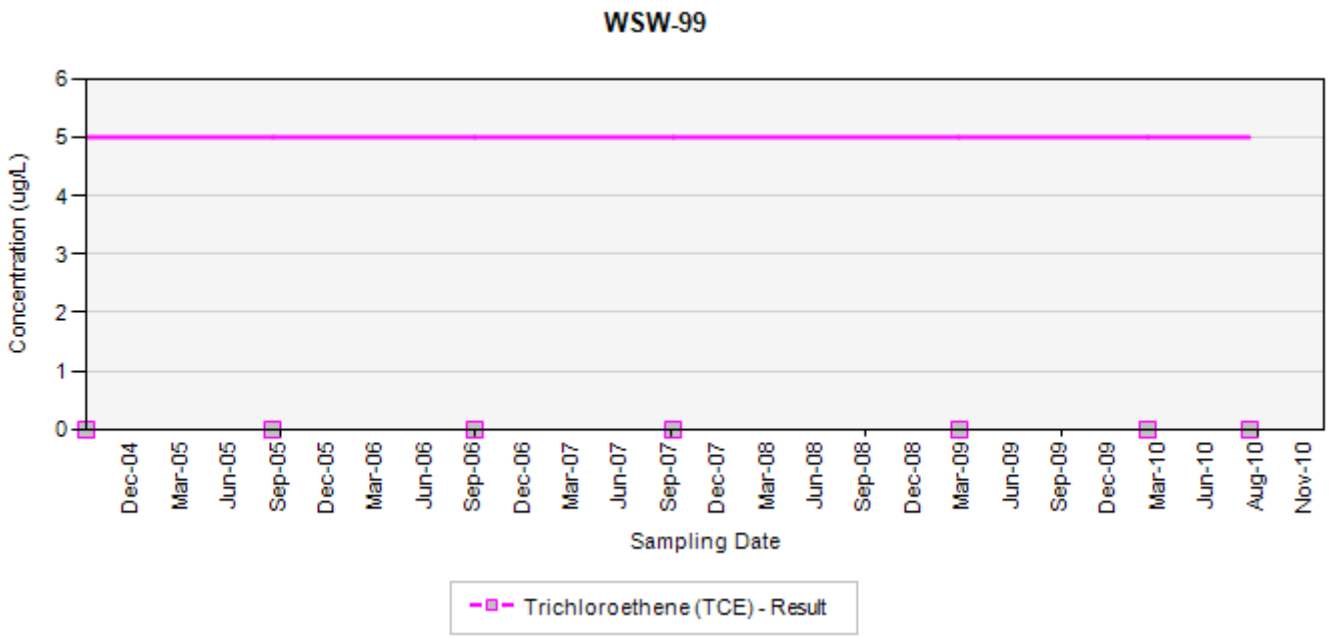

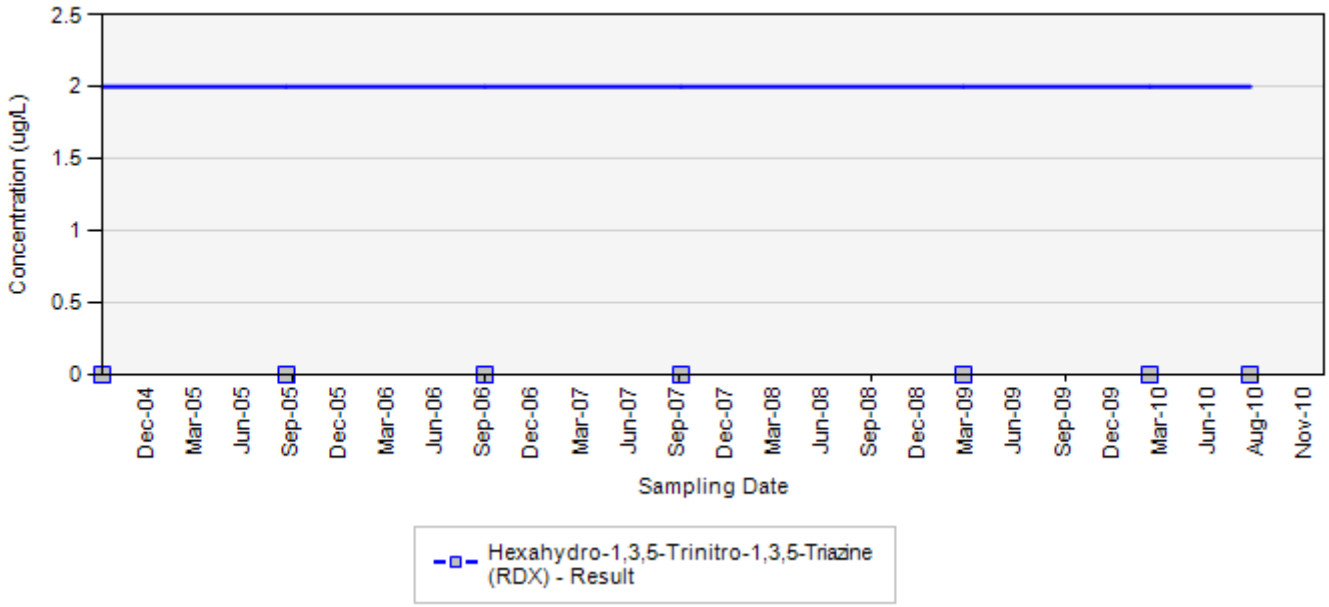

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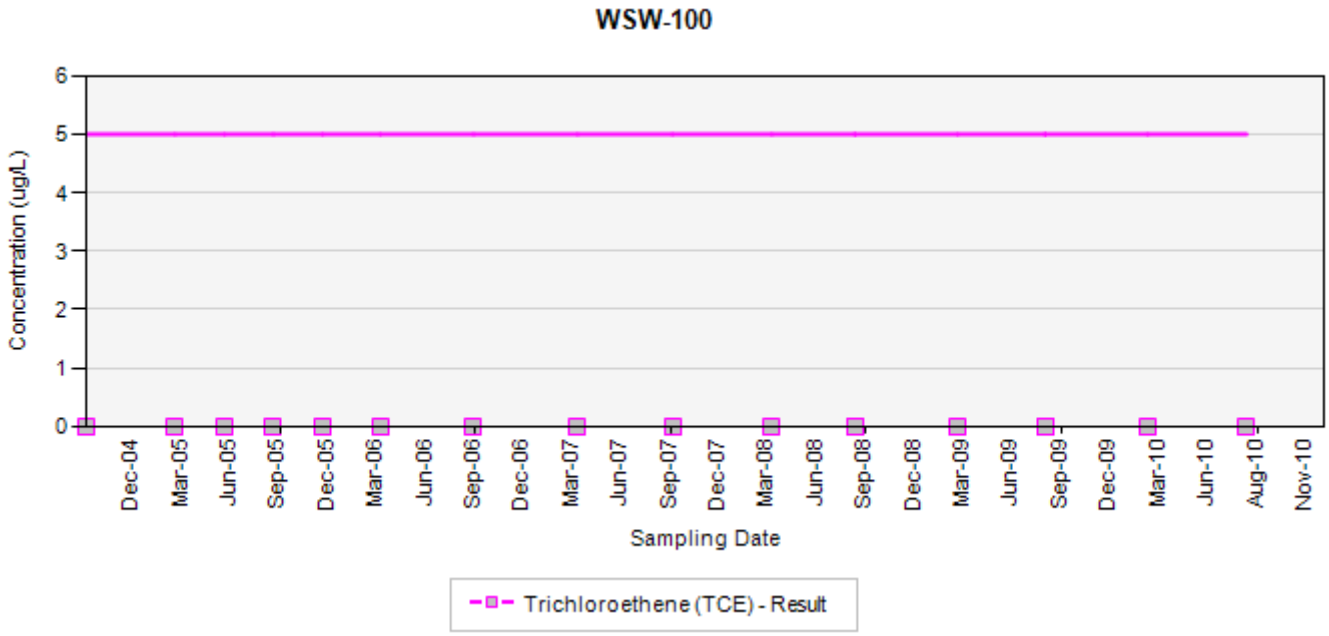

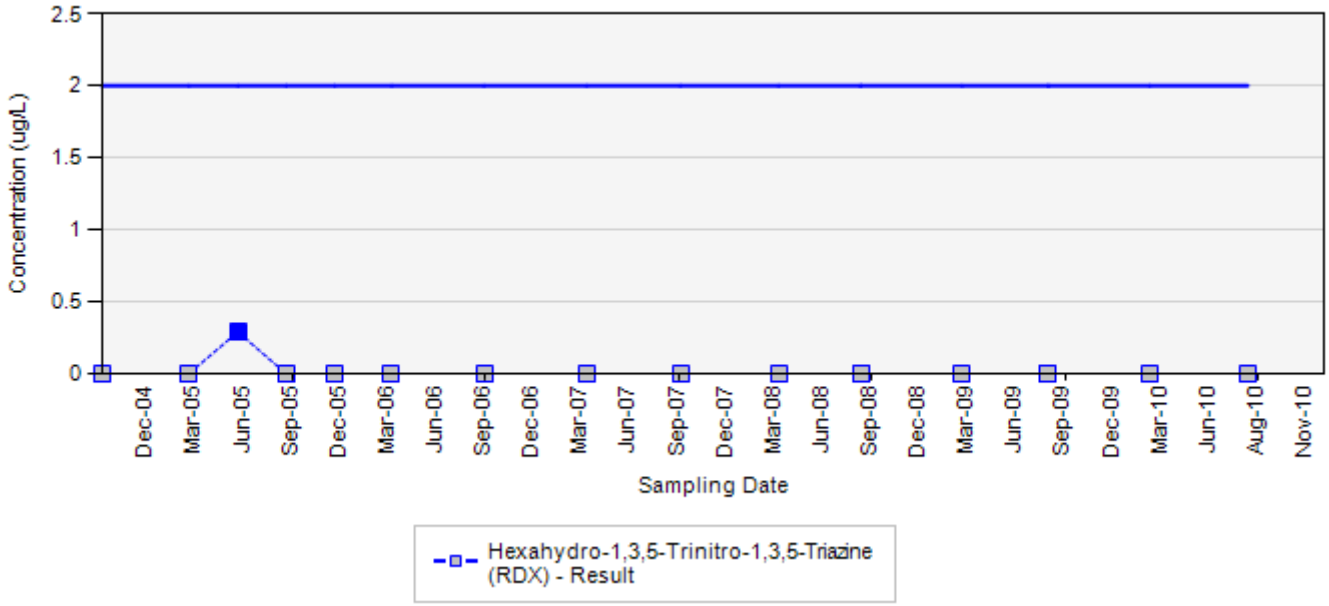

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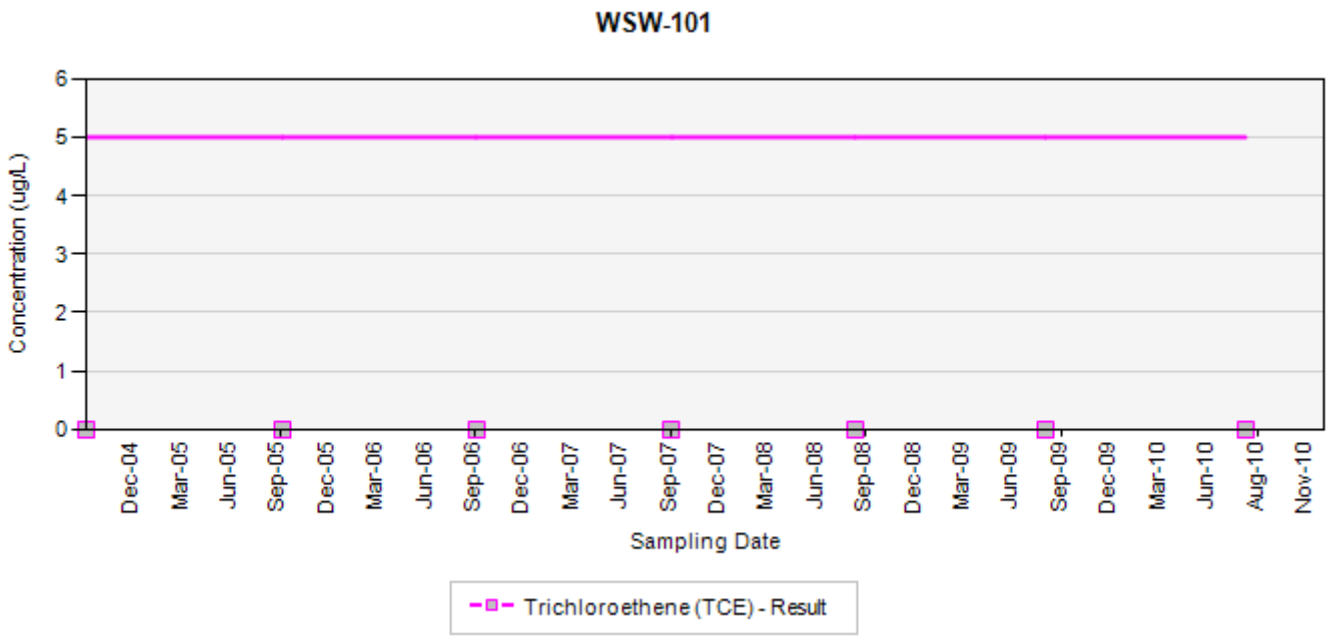

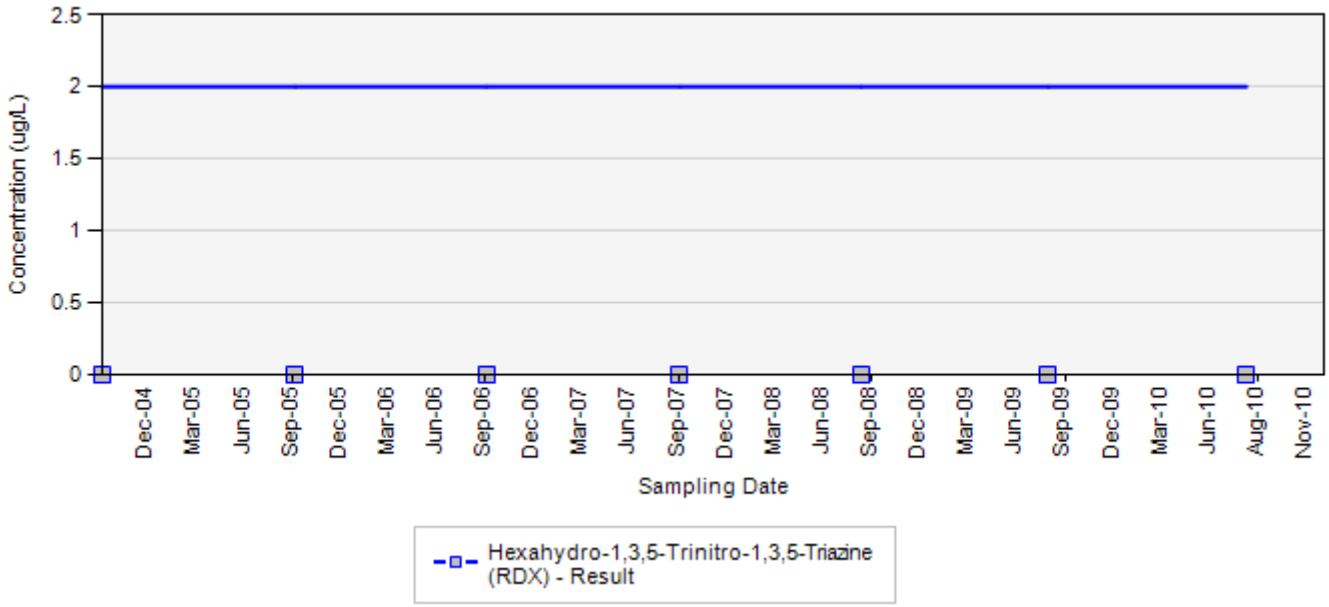

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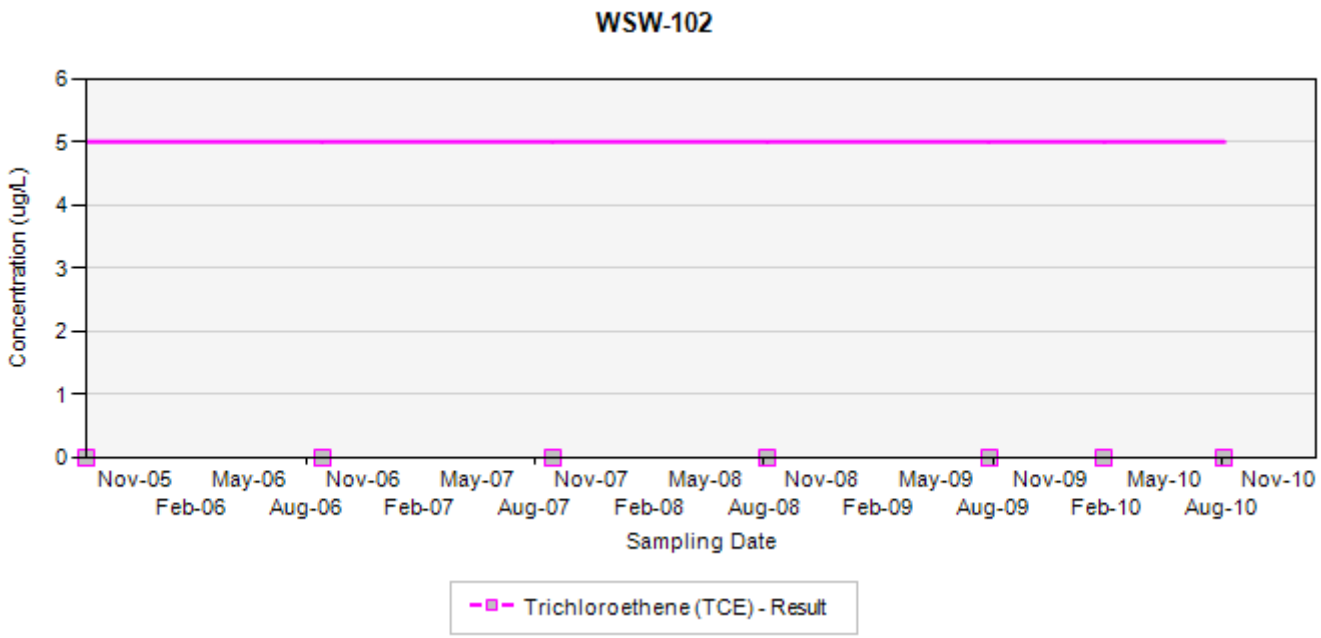

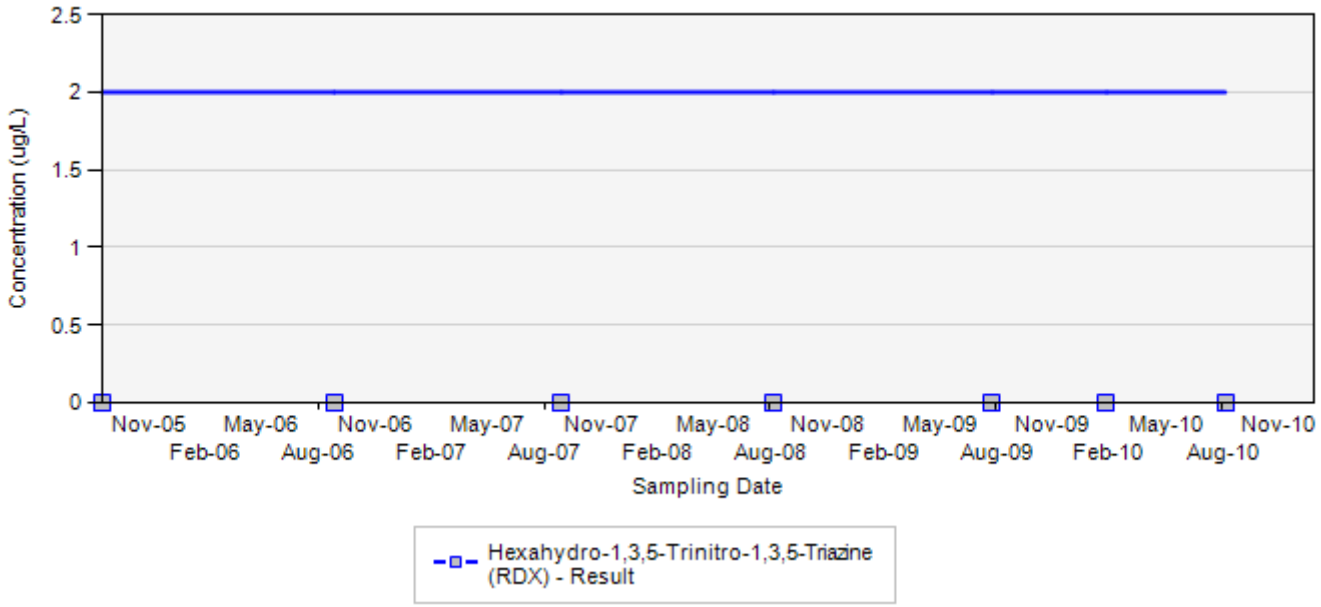

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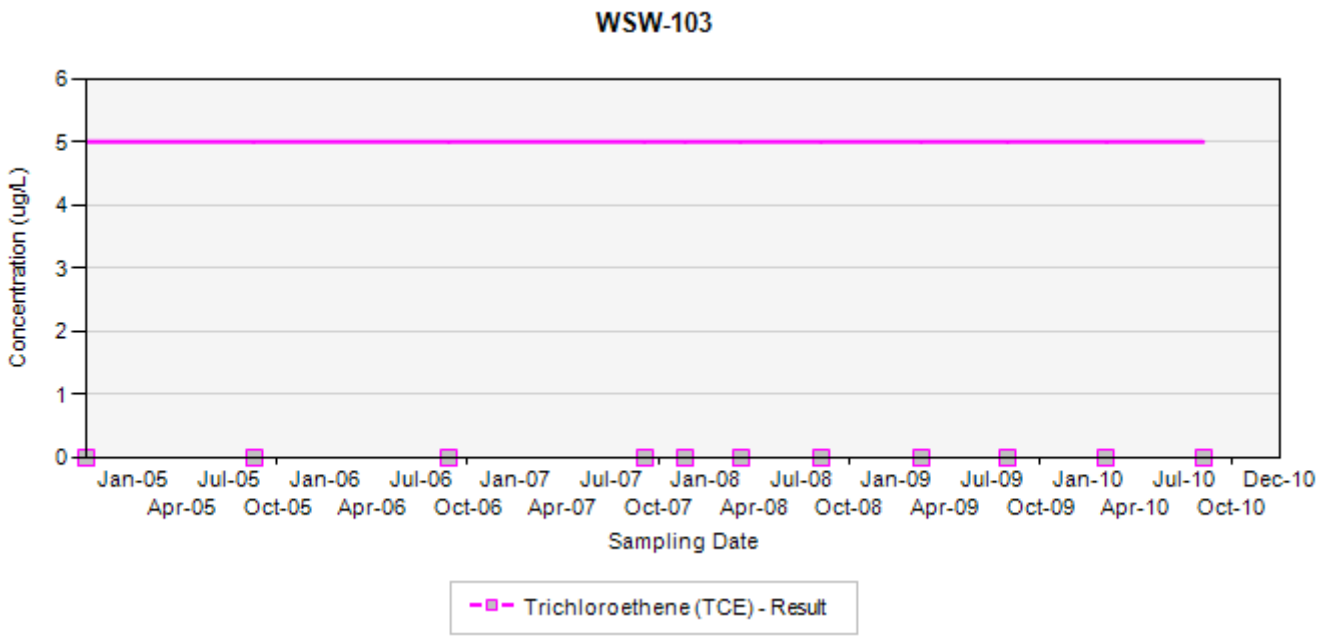
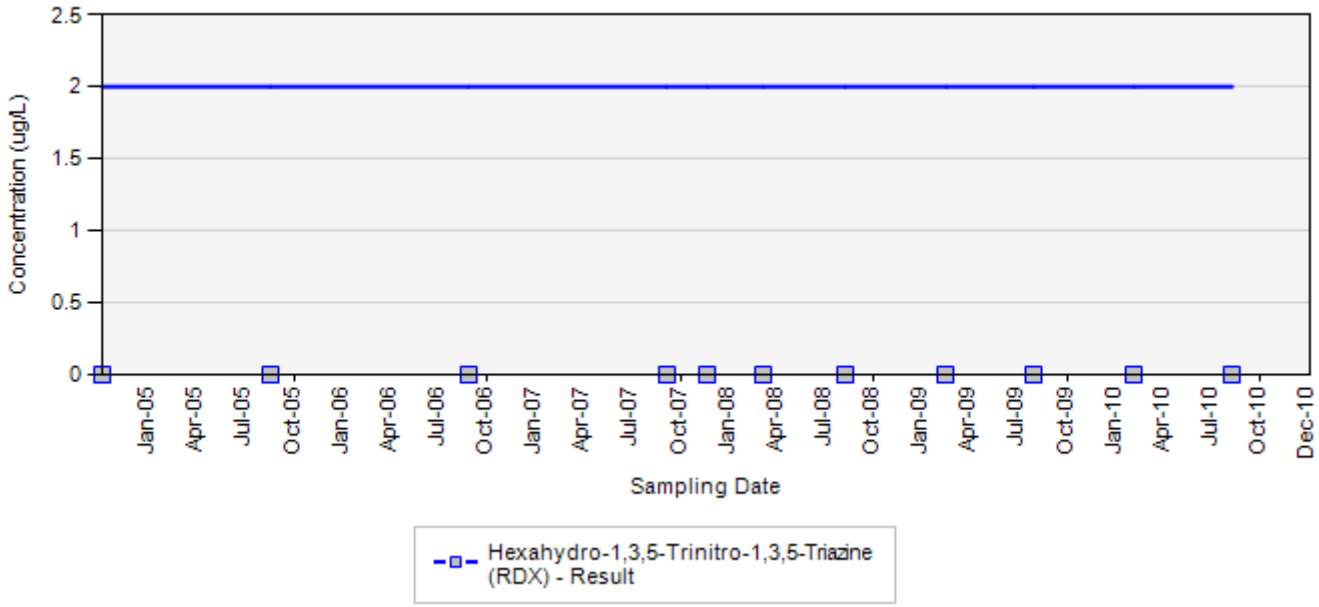
Final Target Groundwater Cleanup Goals for RDX is 2 UG/L

In the event that both a normal sample and a field duplicate were collected, the higher of the two results will be displayed on the chart

ug/L: micrograms per liter
Silver markers indicate non-detected results

Concentration Trend Charts for Water Supply Wells





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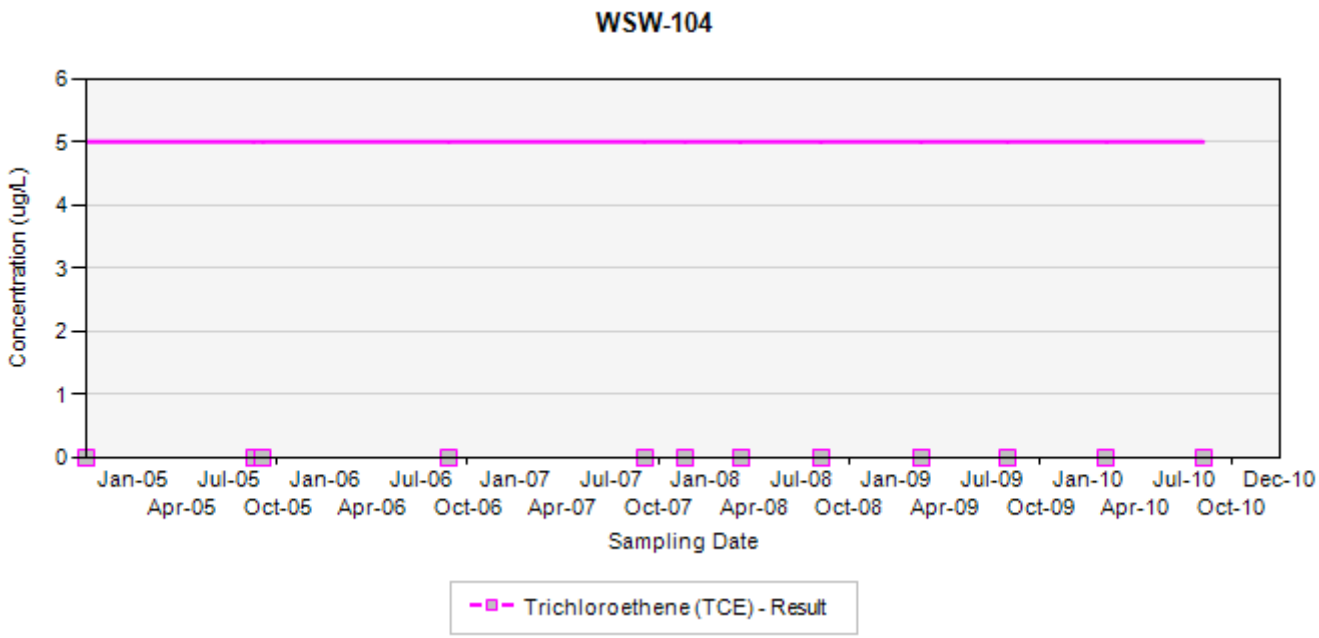

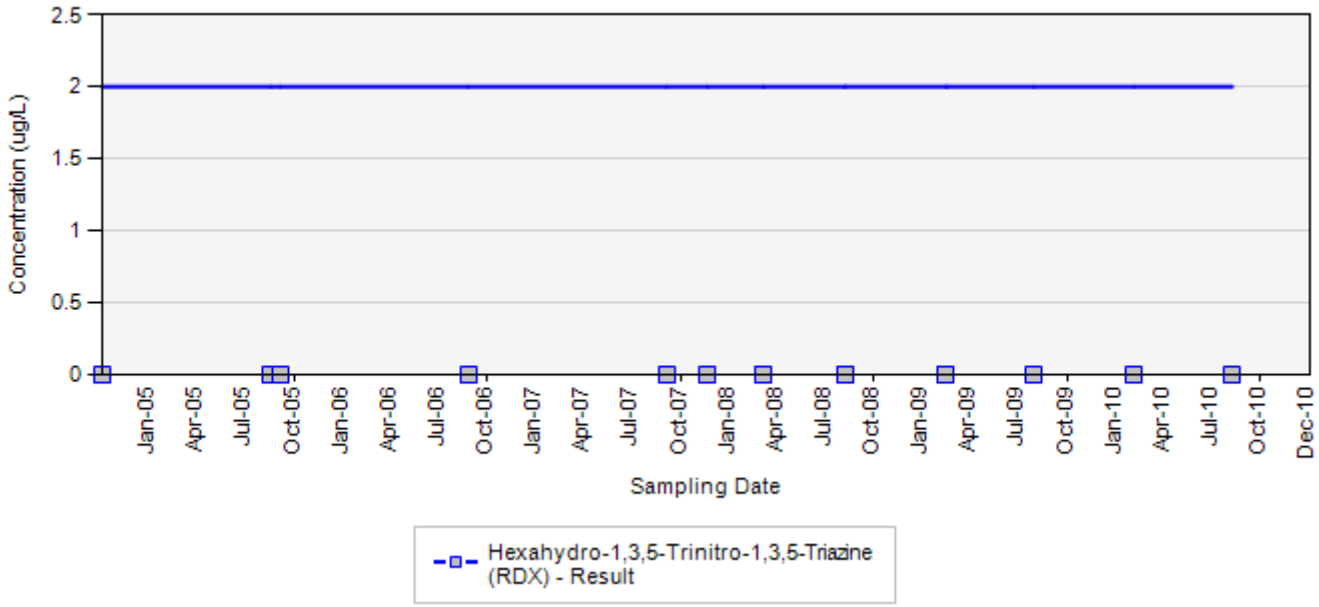

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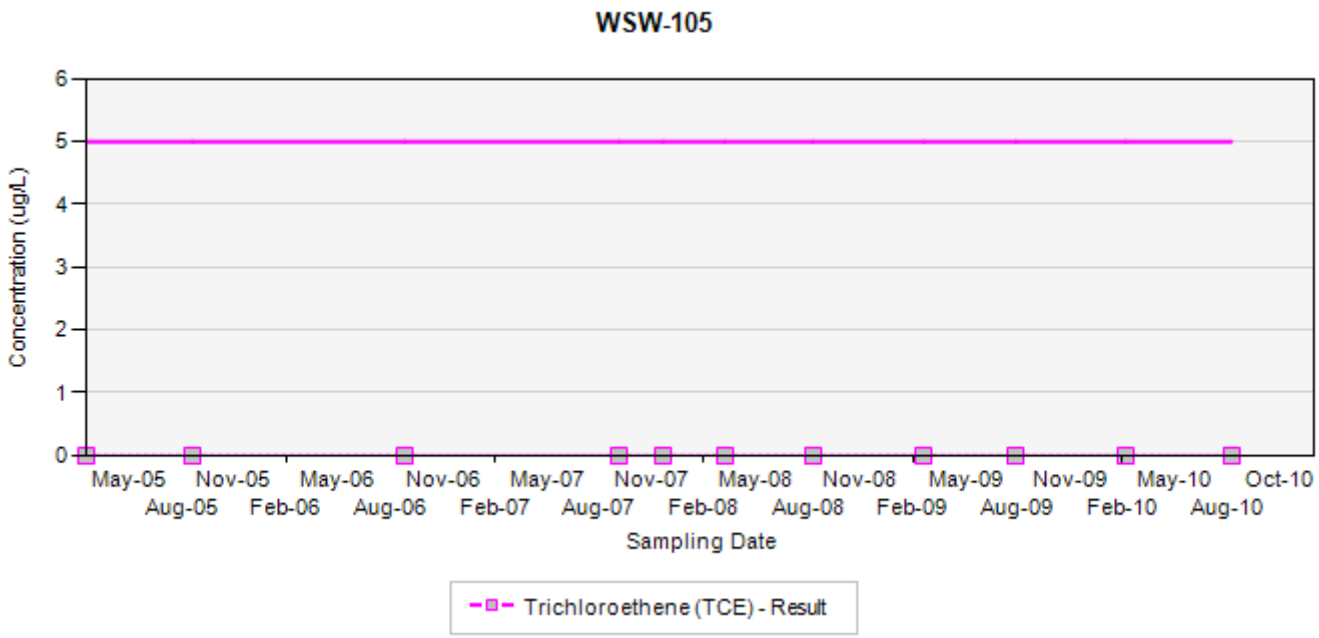

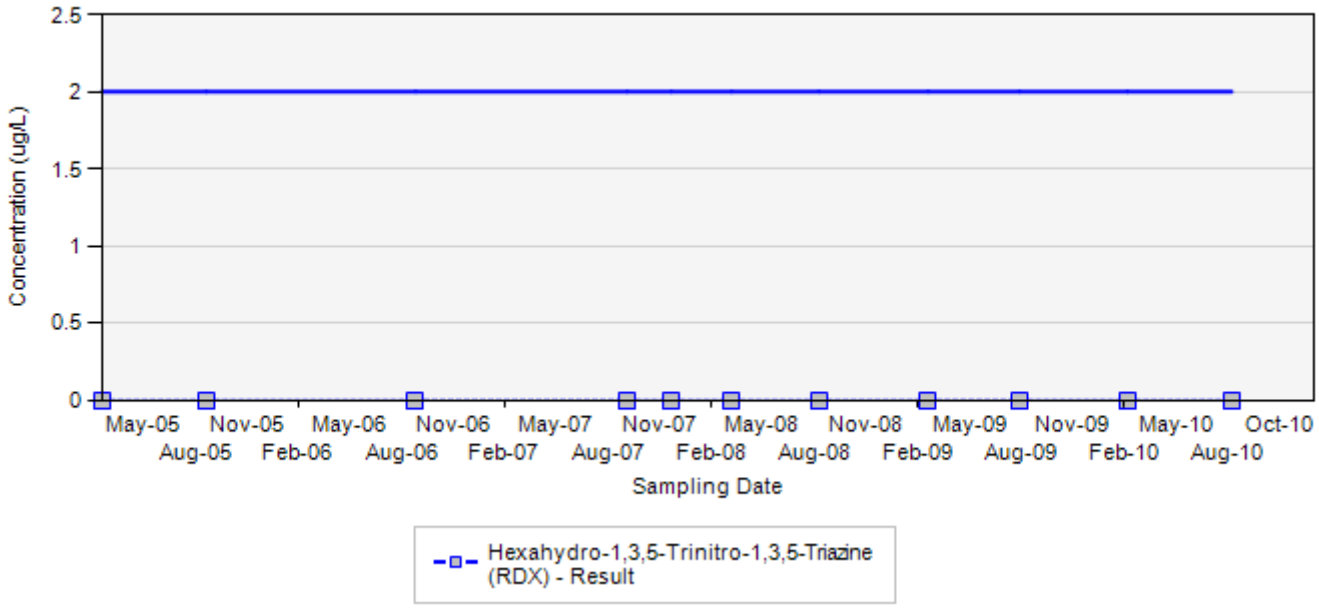

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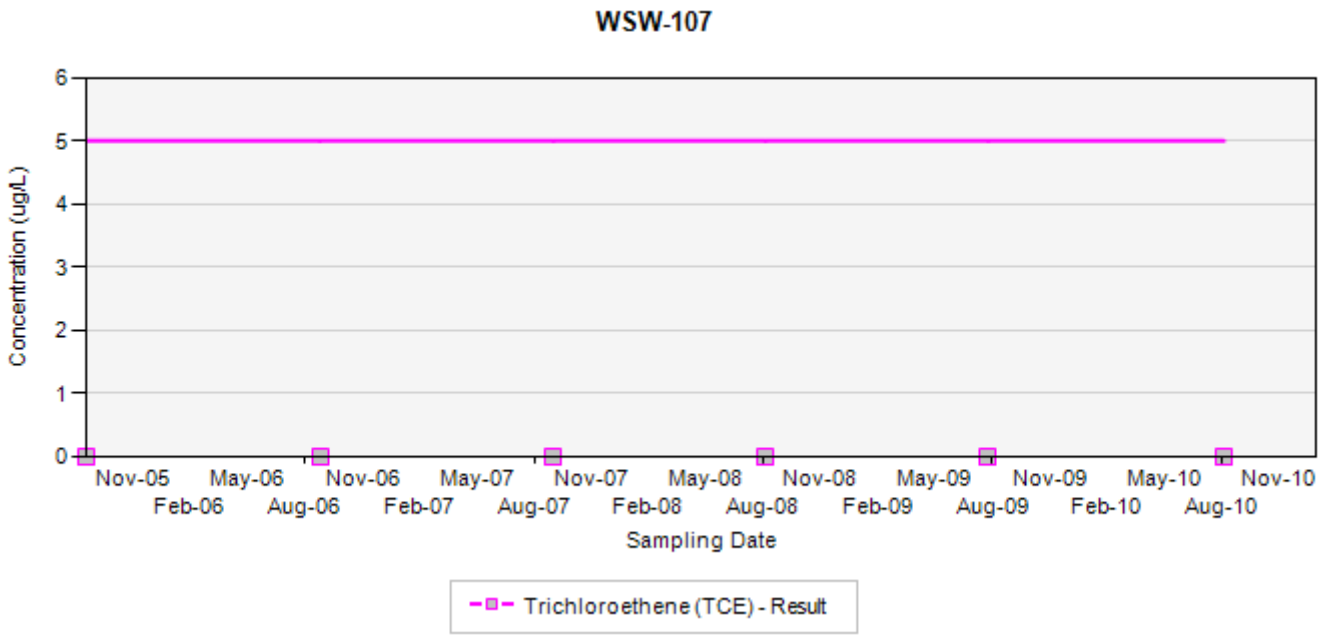

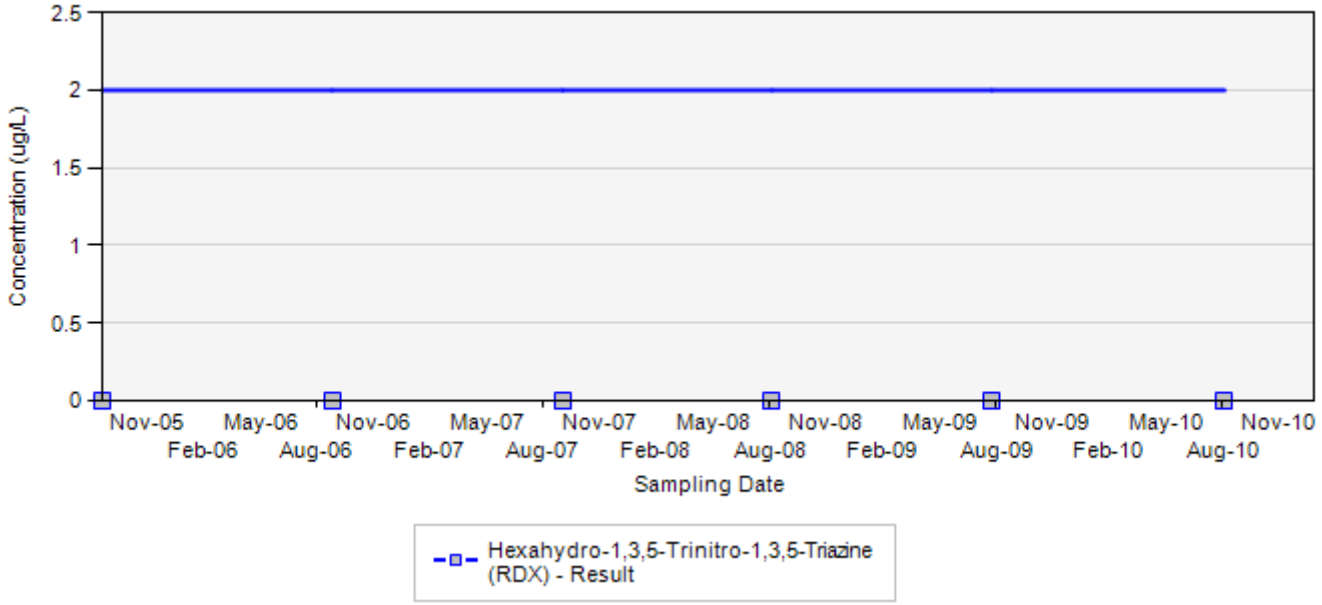

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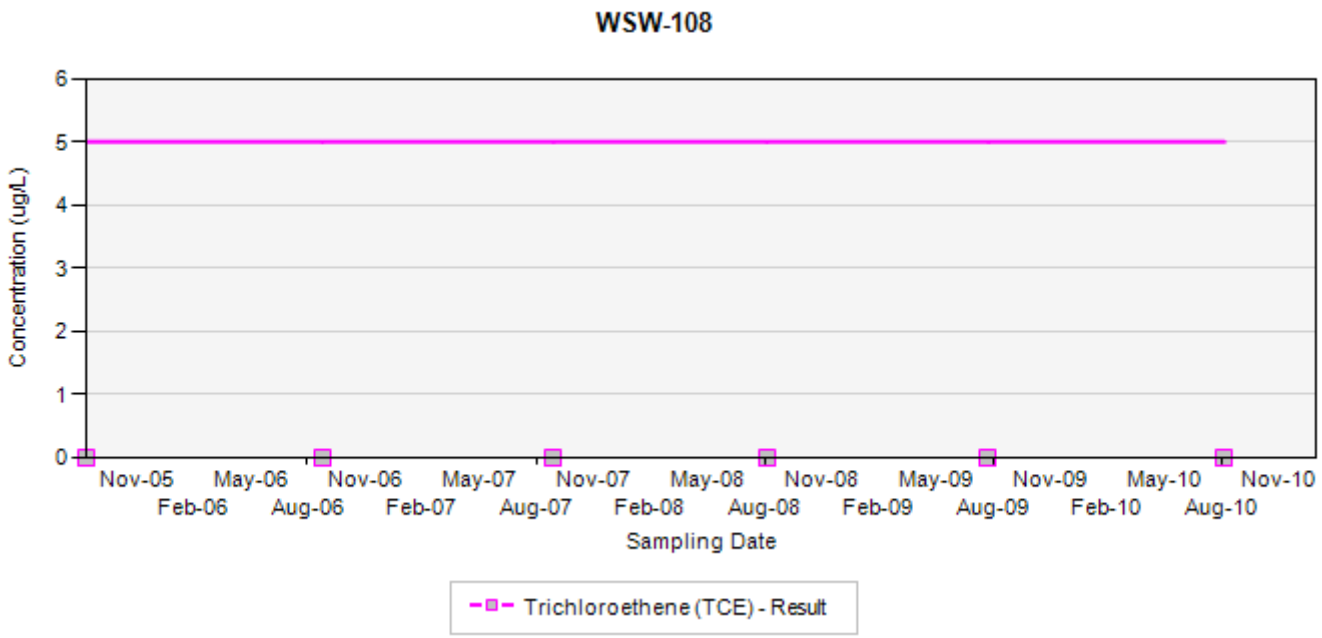

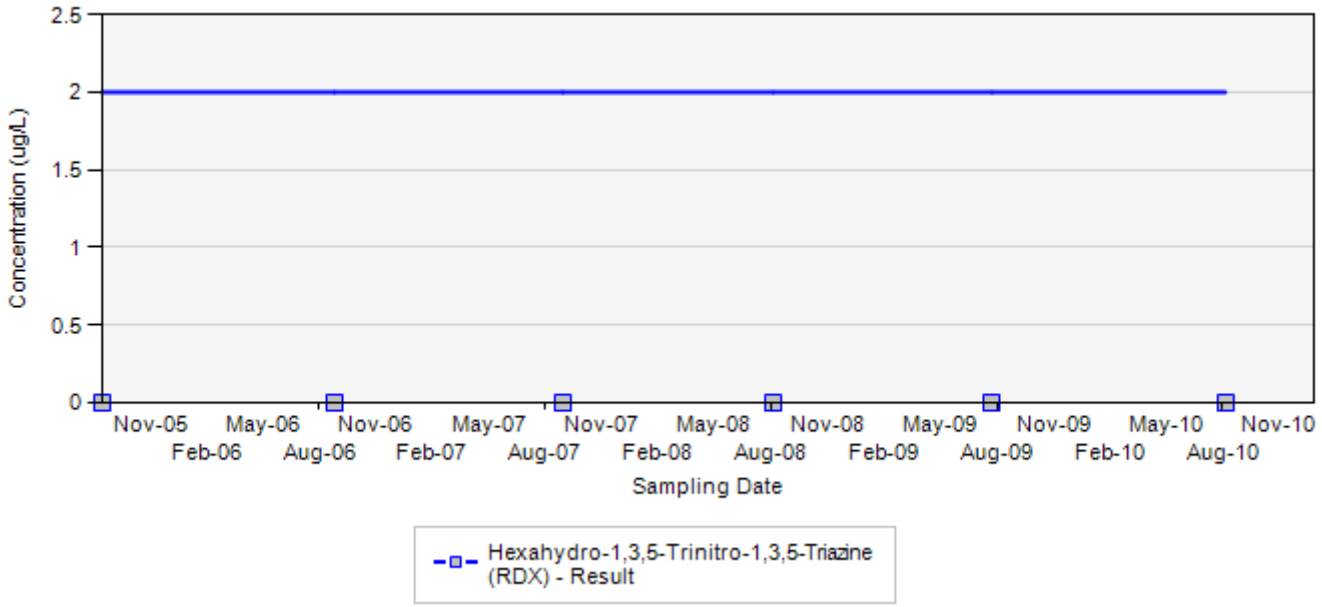

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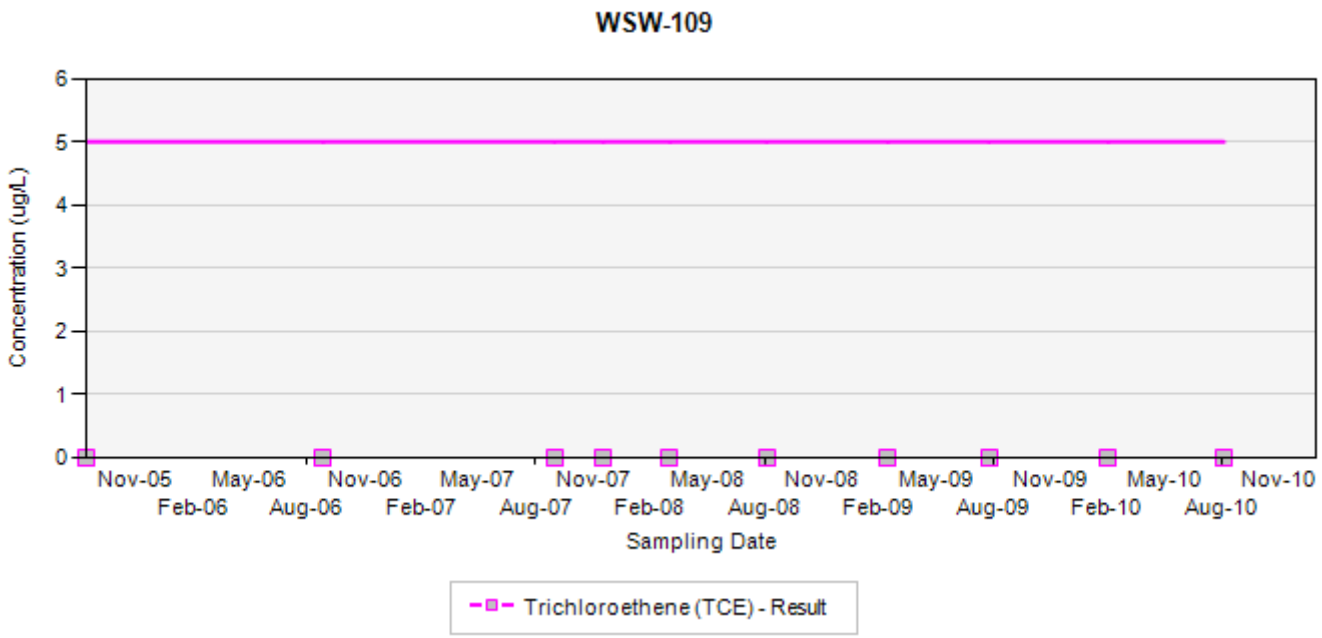

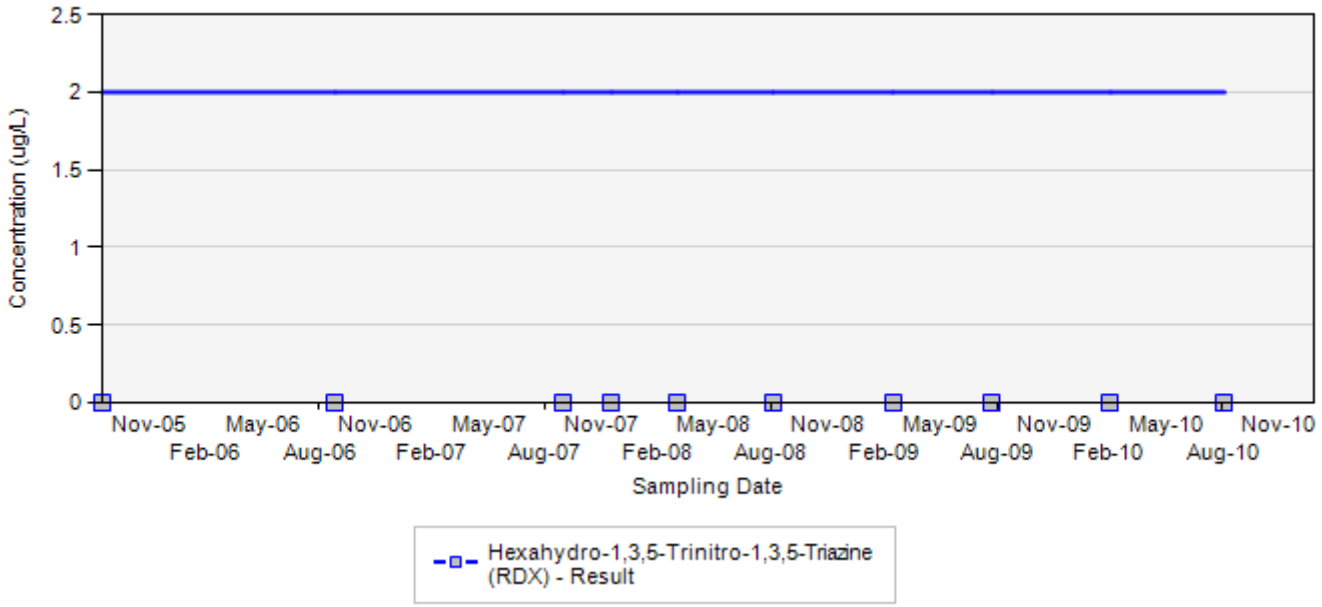

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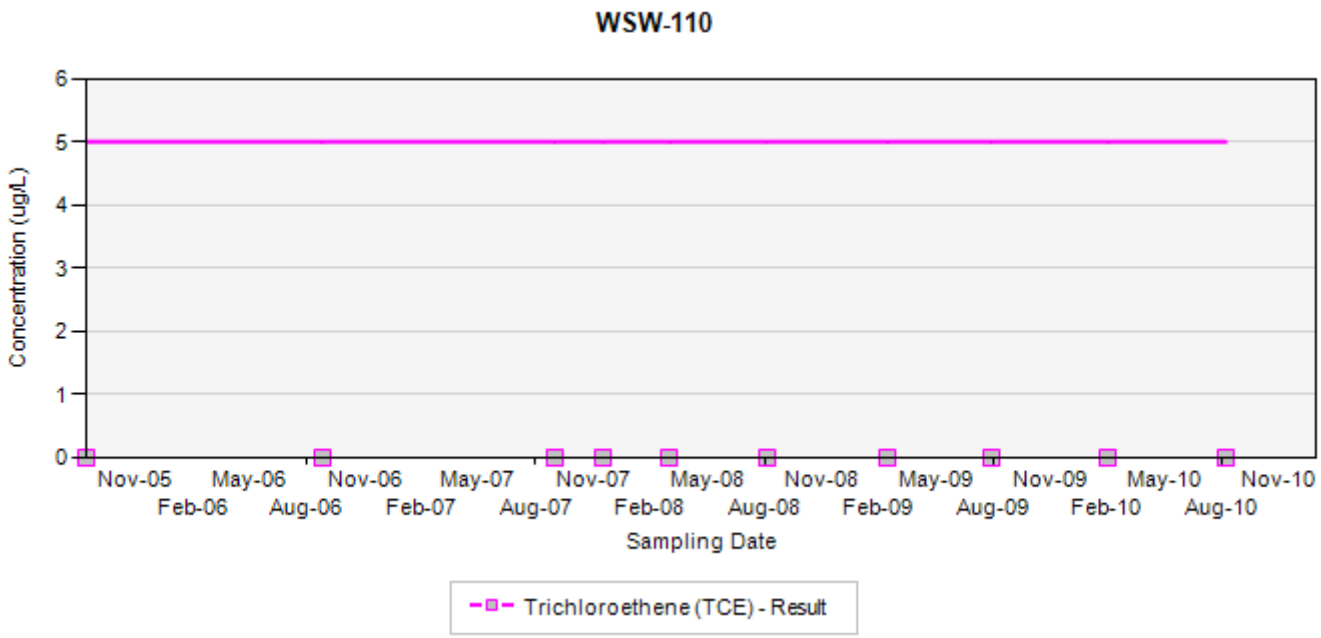

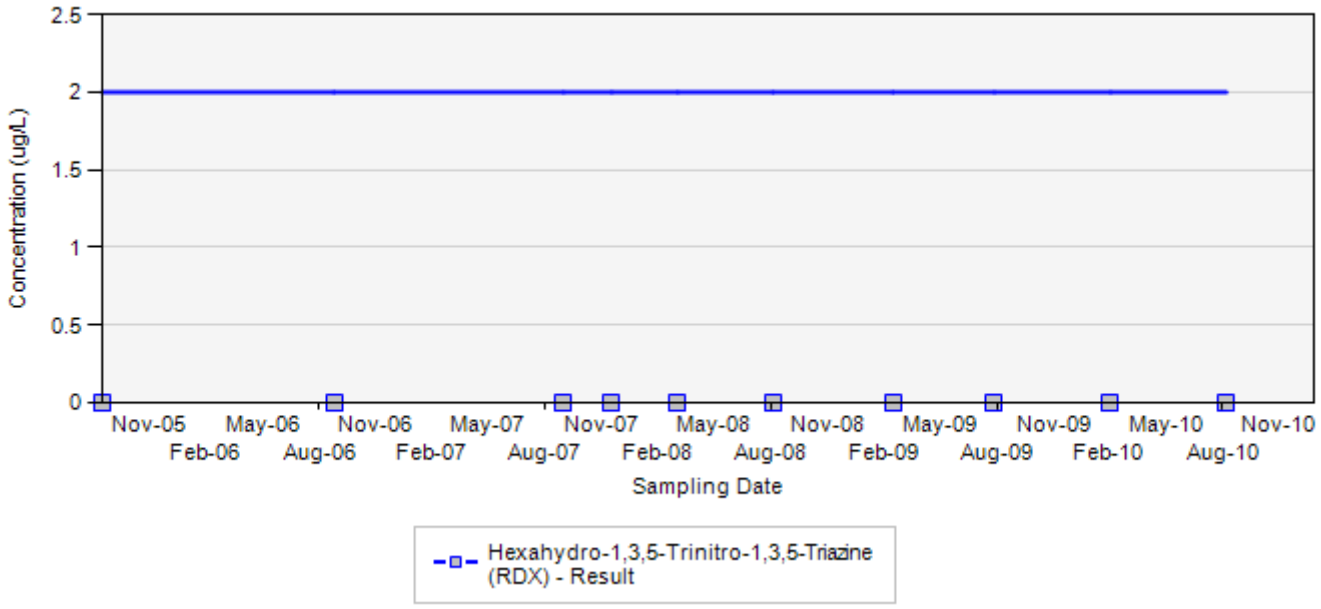

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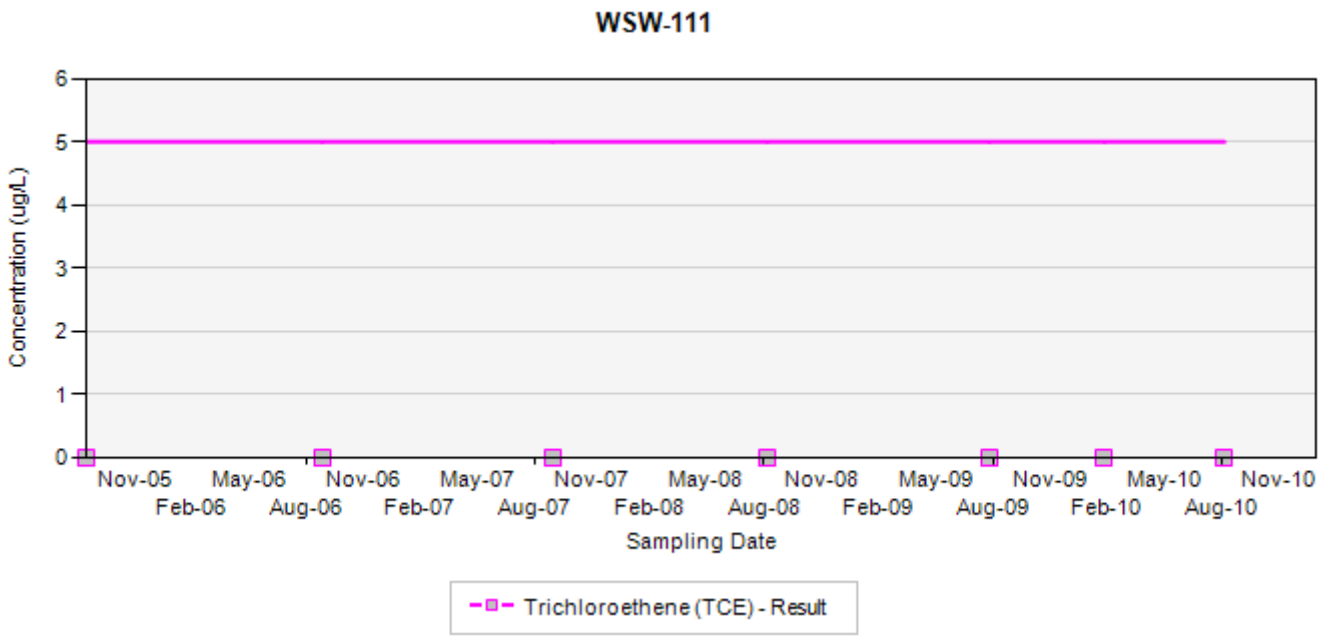

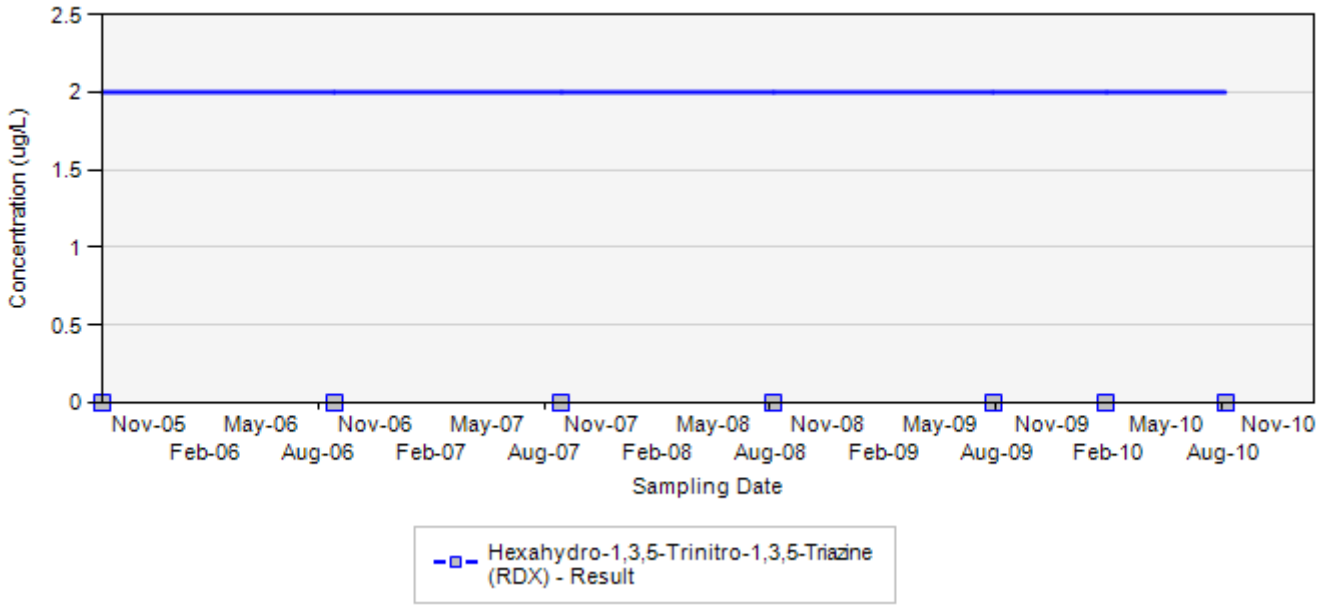

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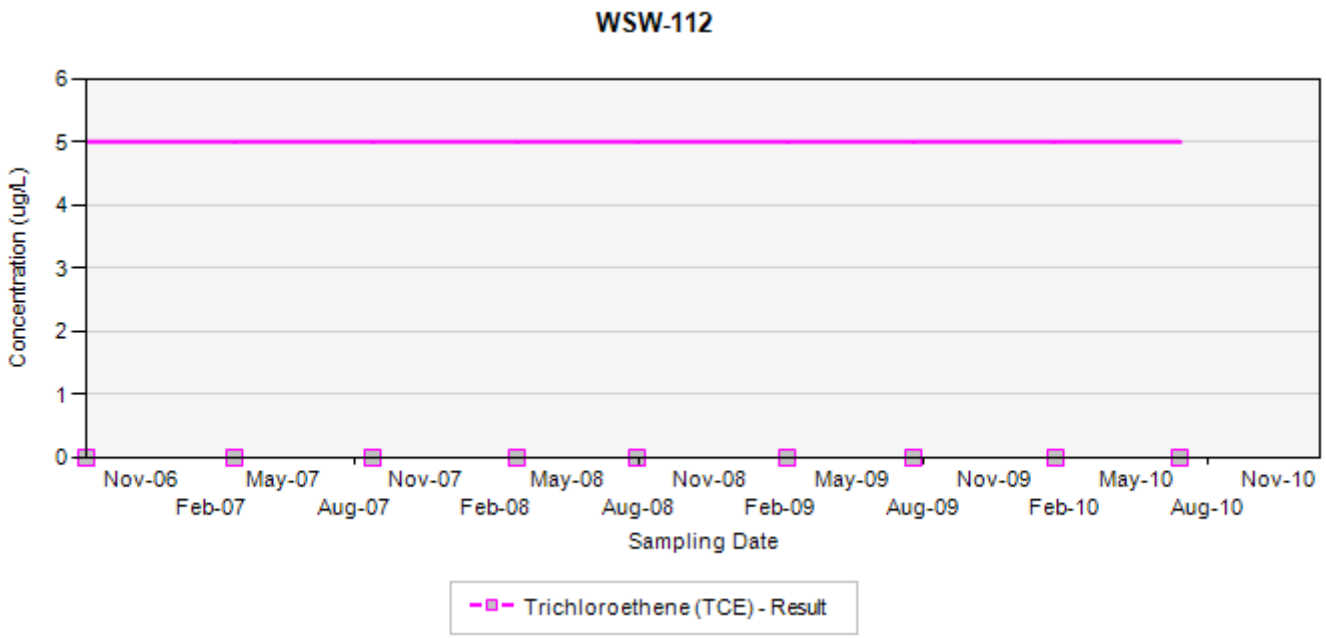
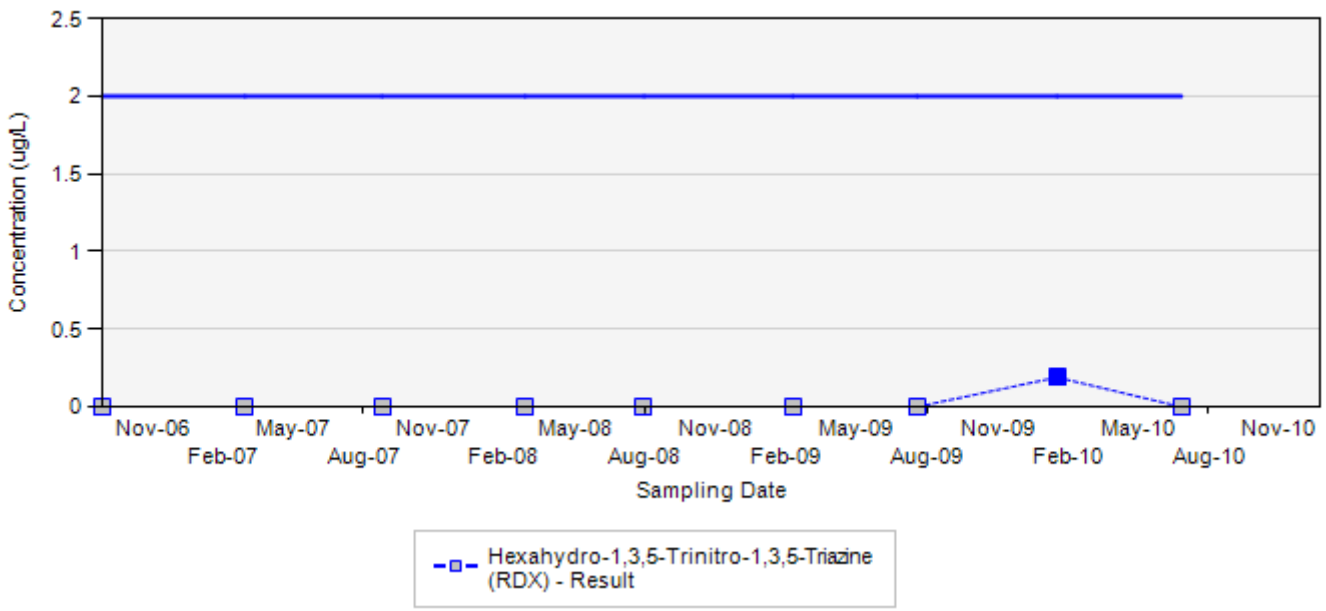
Concentration Trend Charts for Water Supply Wells





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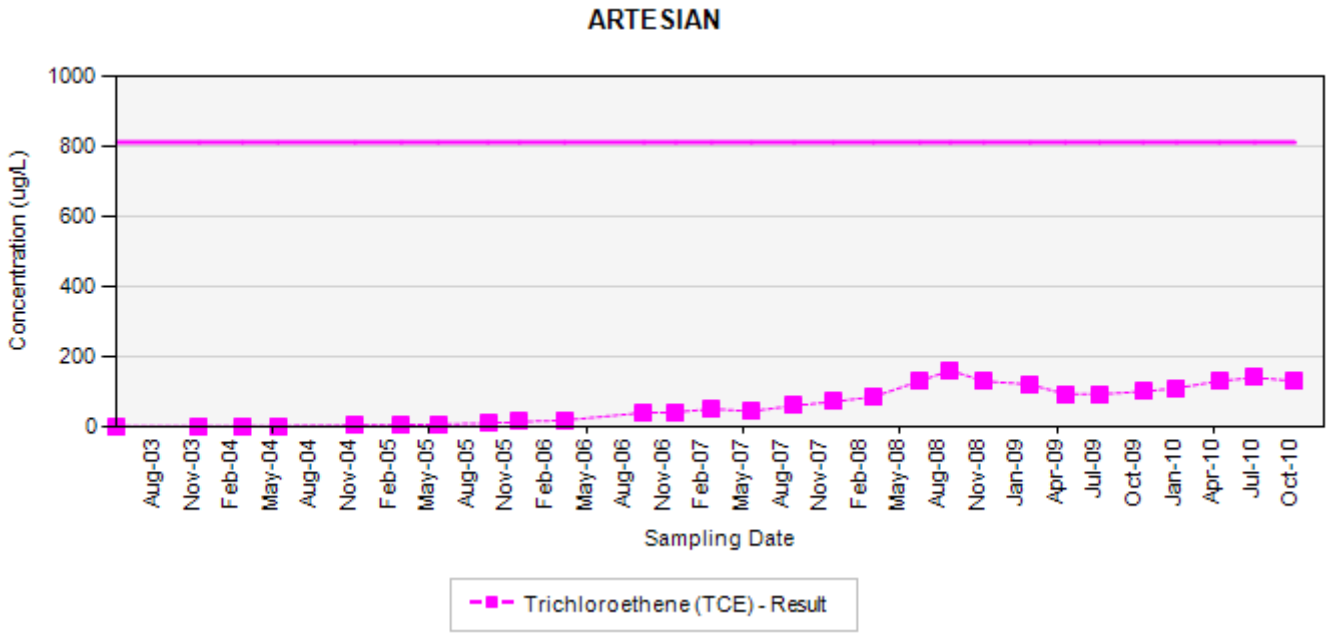
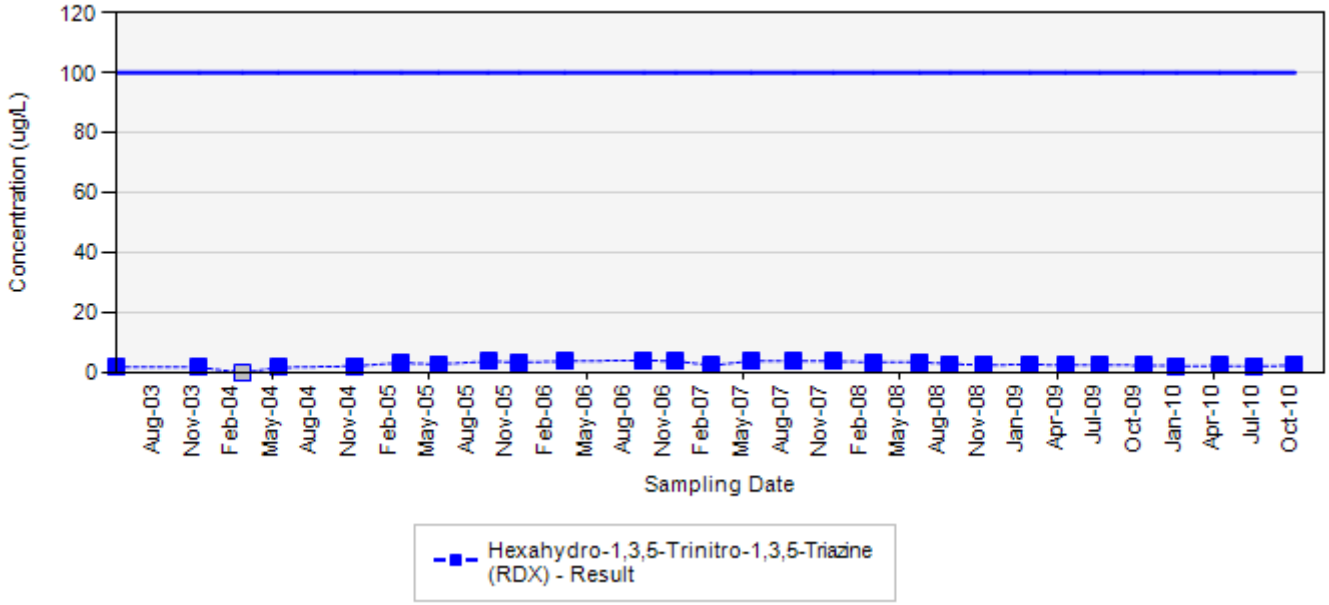
APPENDIX A.9

SURFACE WATER CONCENTRATION TREND CHART

Concentration Trend Charts for Surface Water





Final Target Groundwater Cleanup Goals for TCE is 810 UG/L
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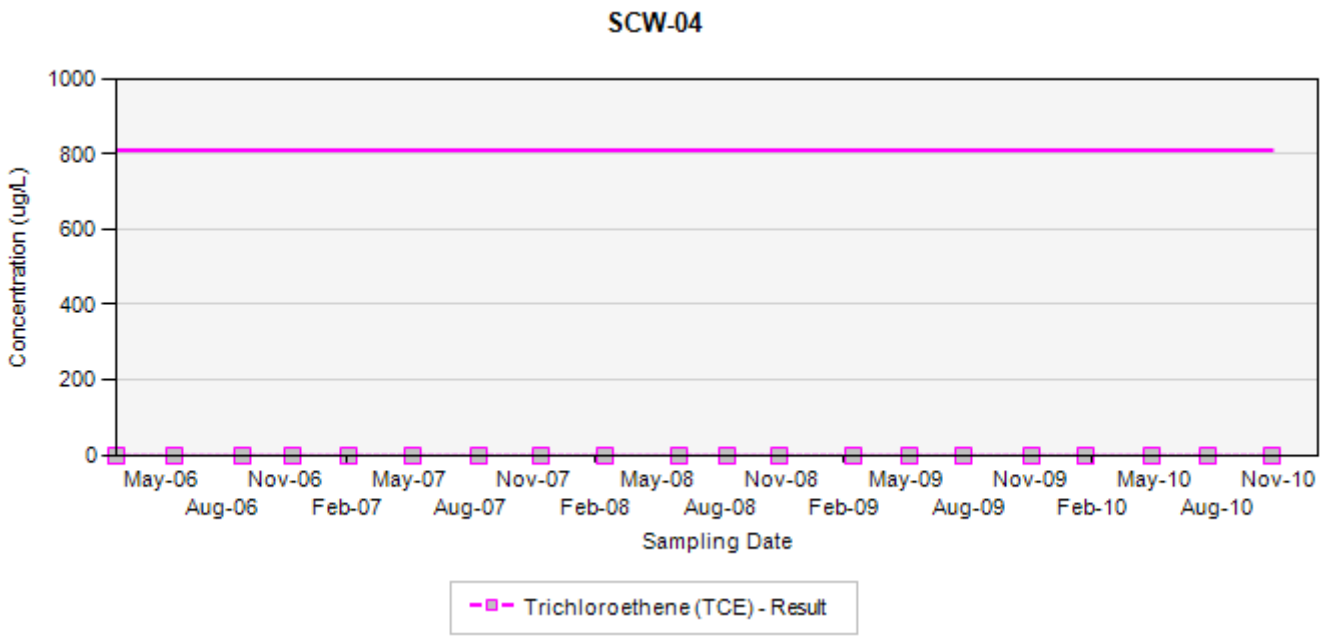
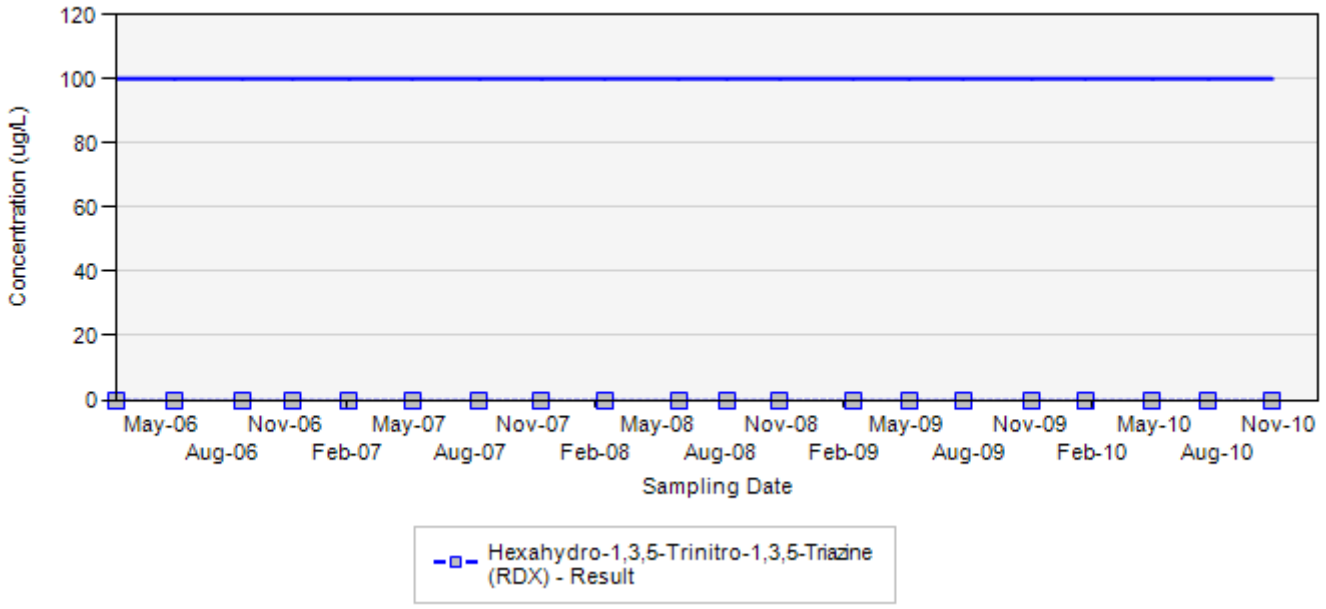
Concentration Trend Charts for Surface Water





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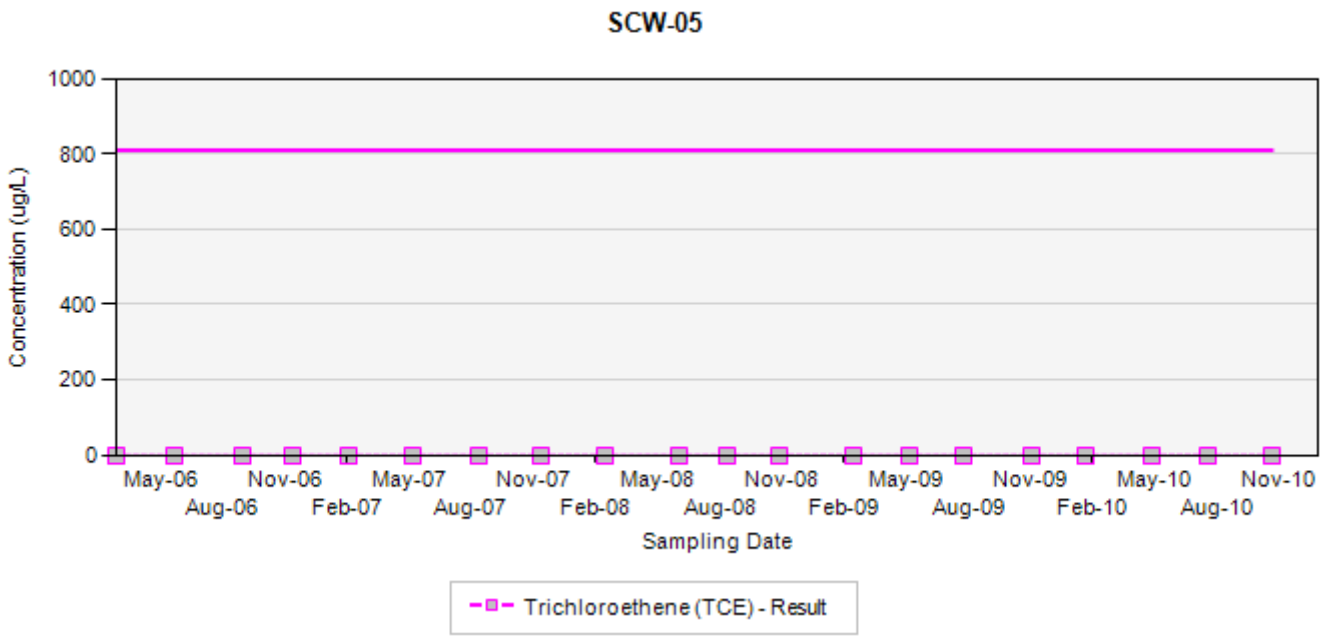
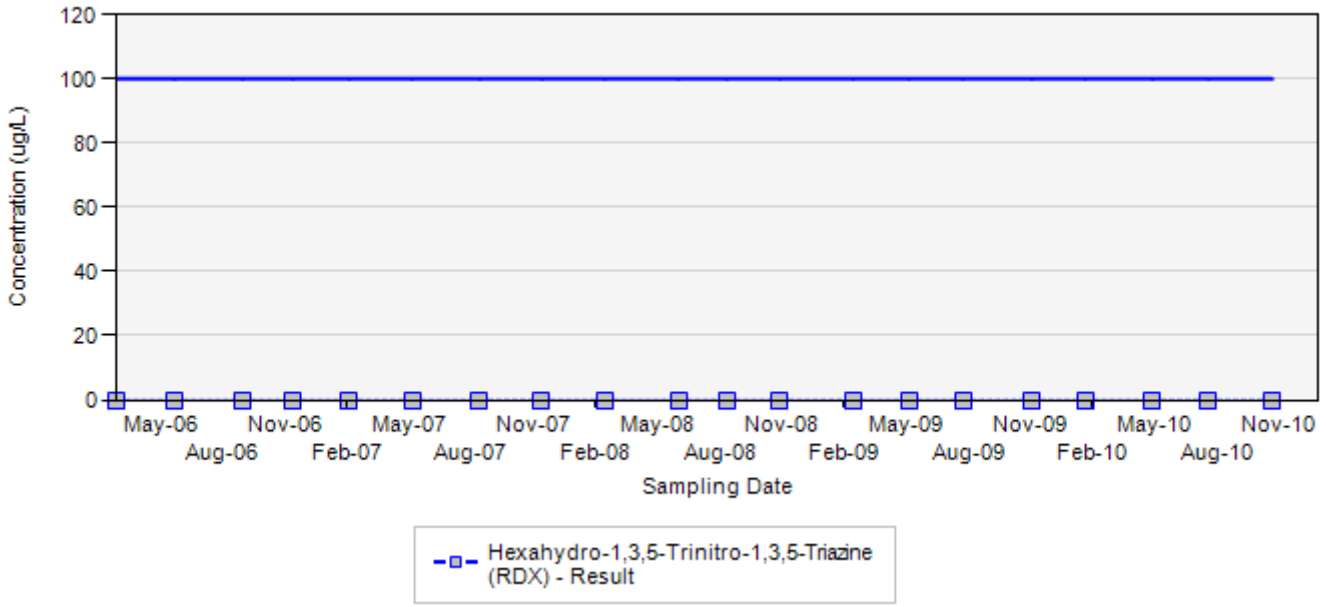
Concentration Trend Charts for Surface Water





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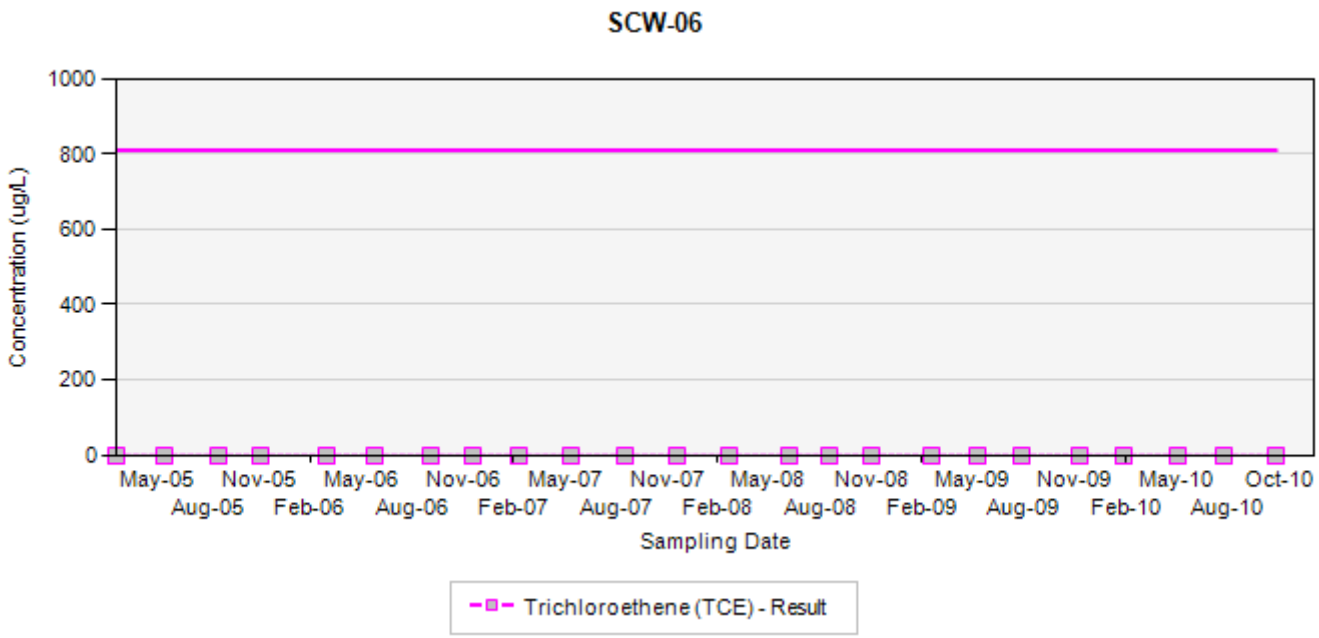

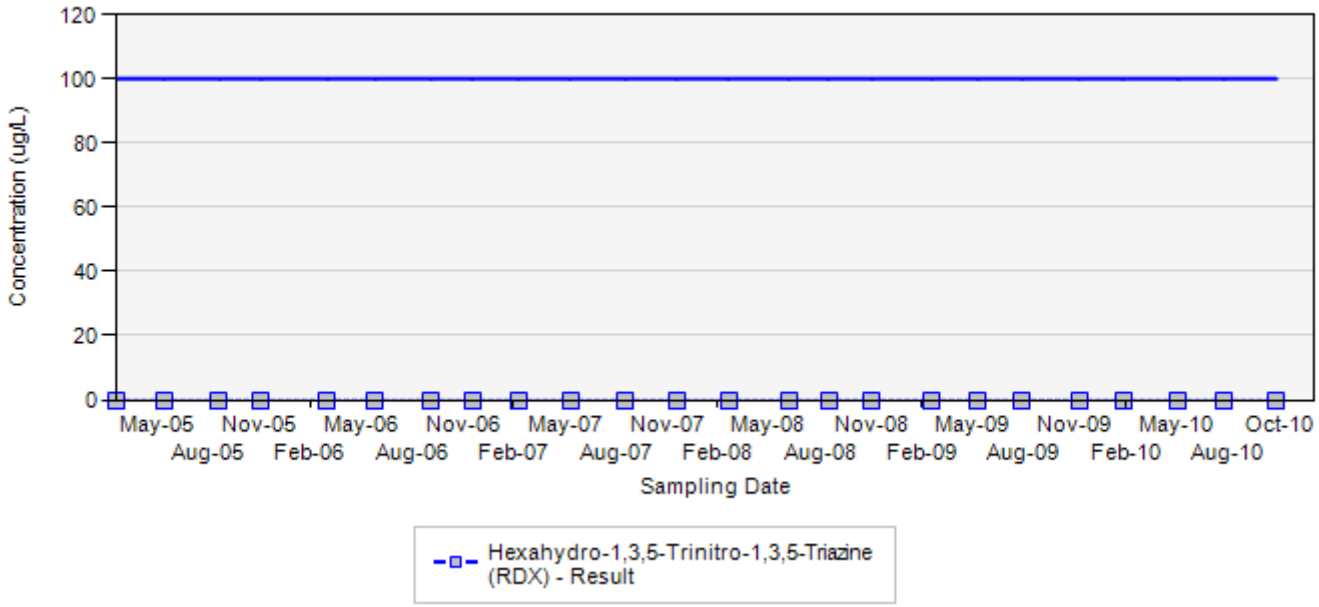

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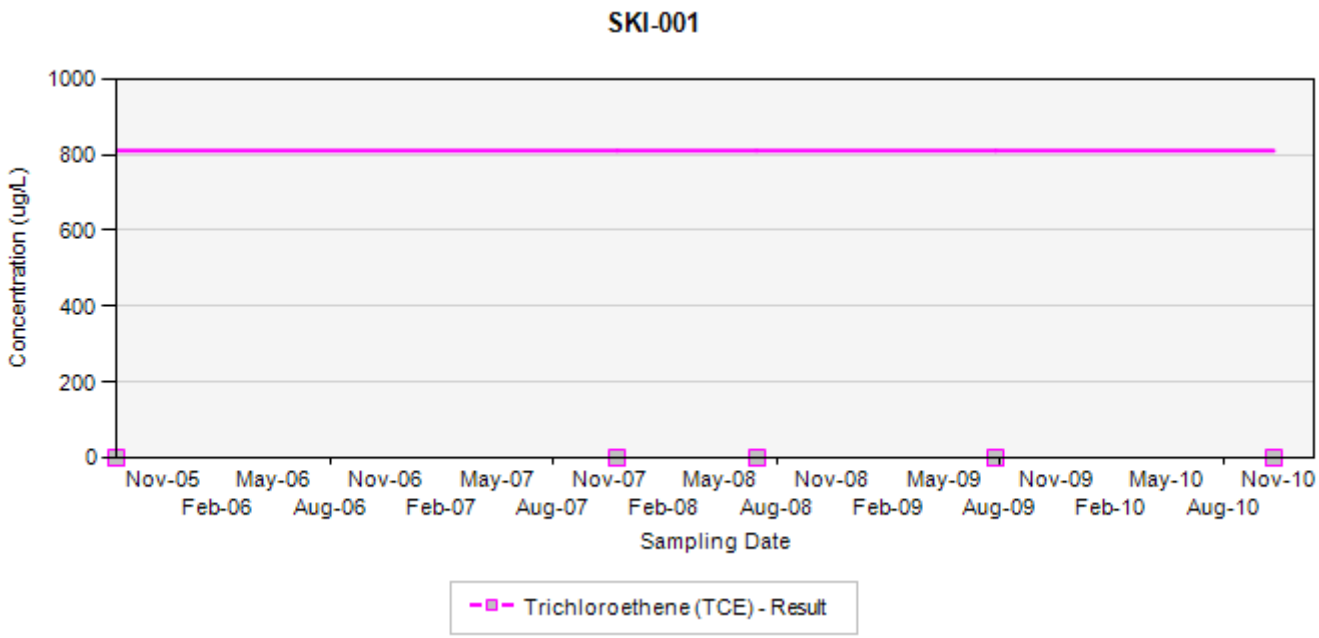

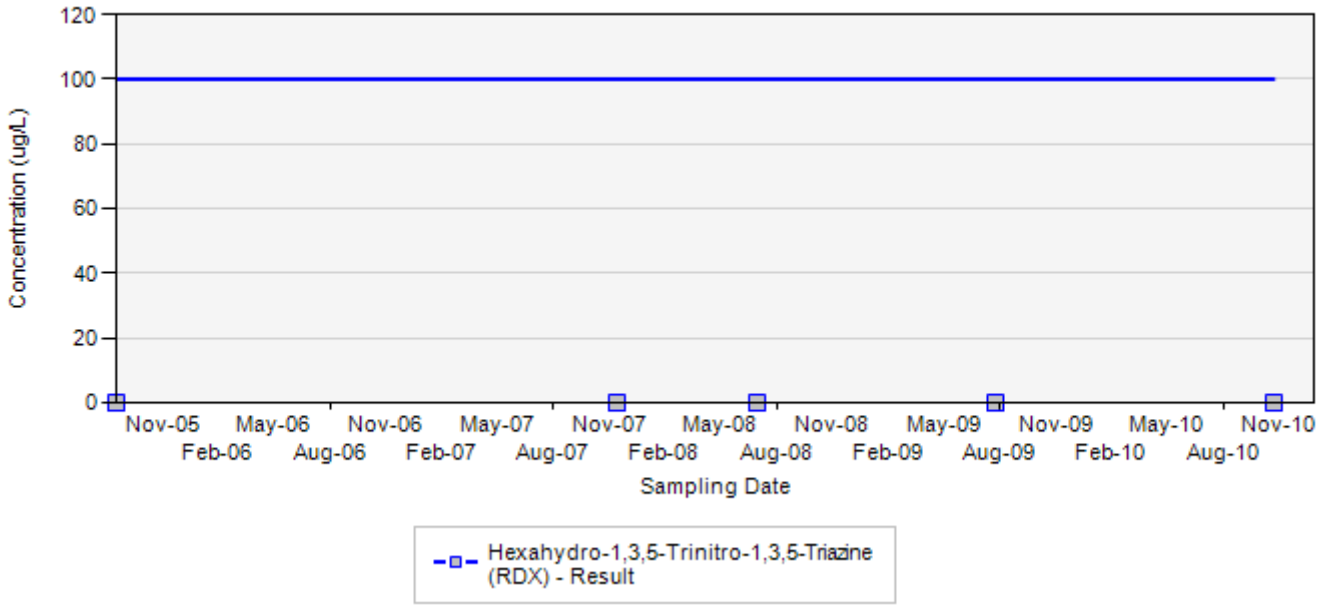

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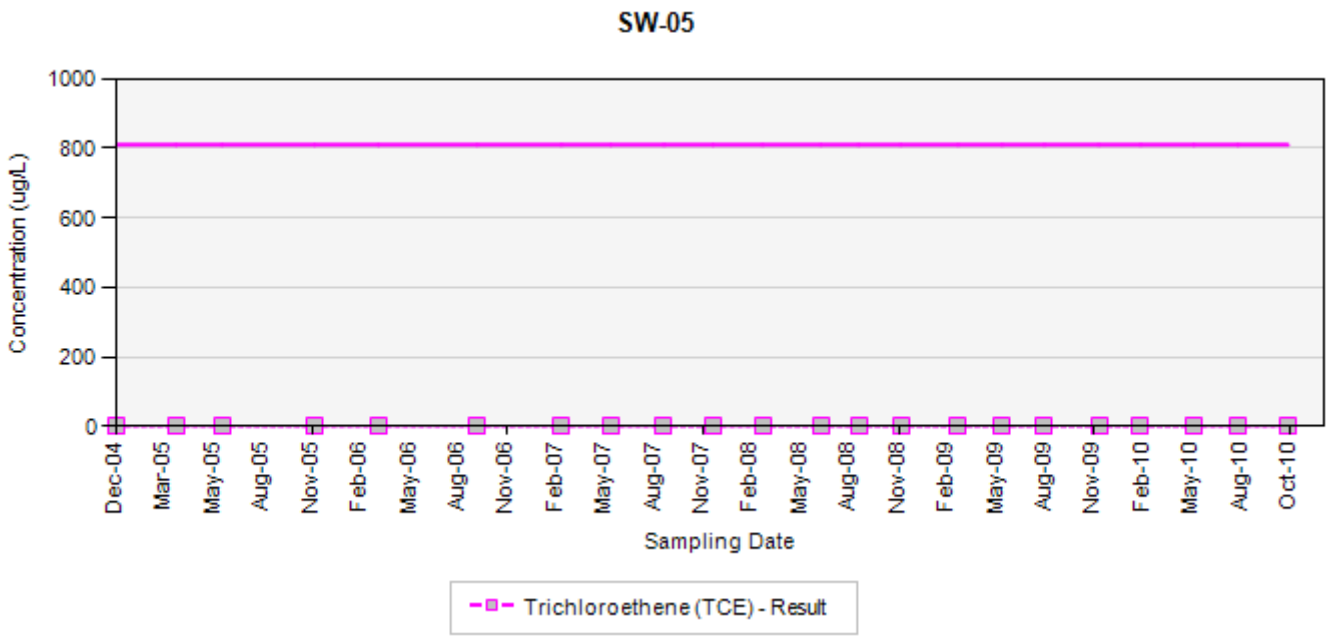

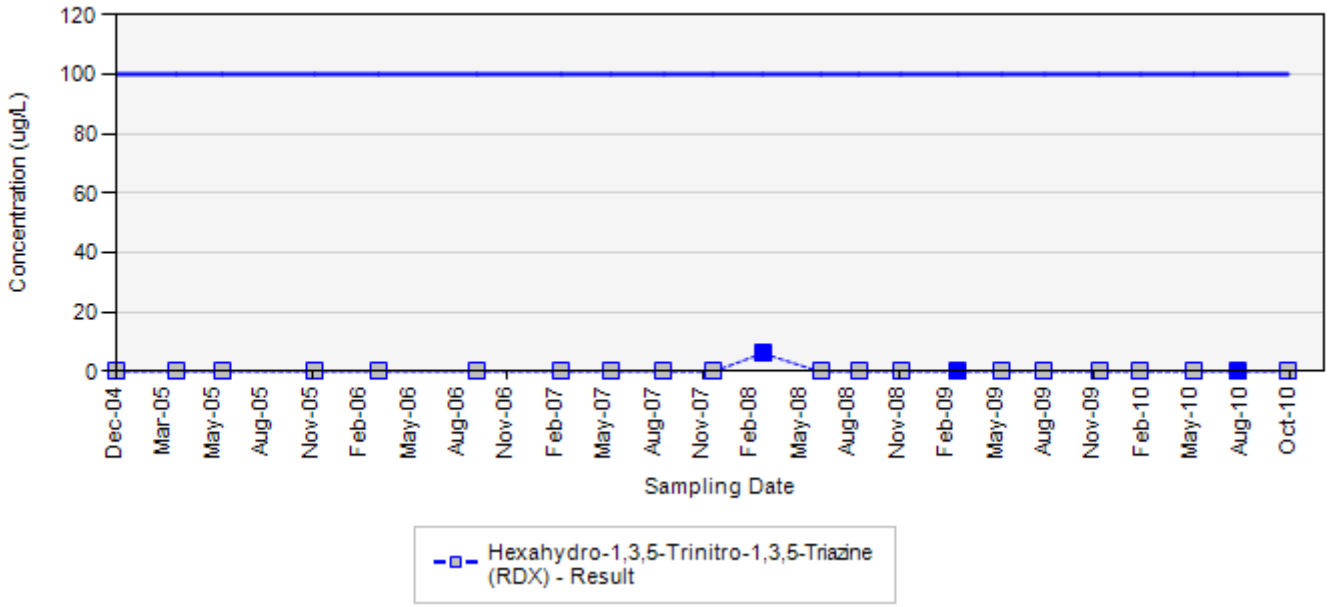

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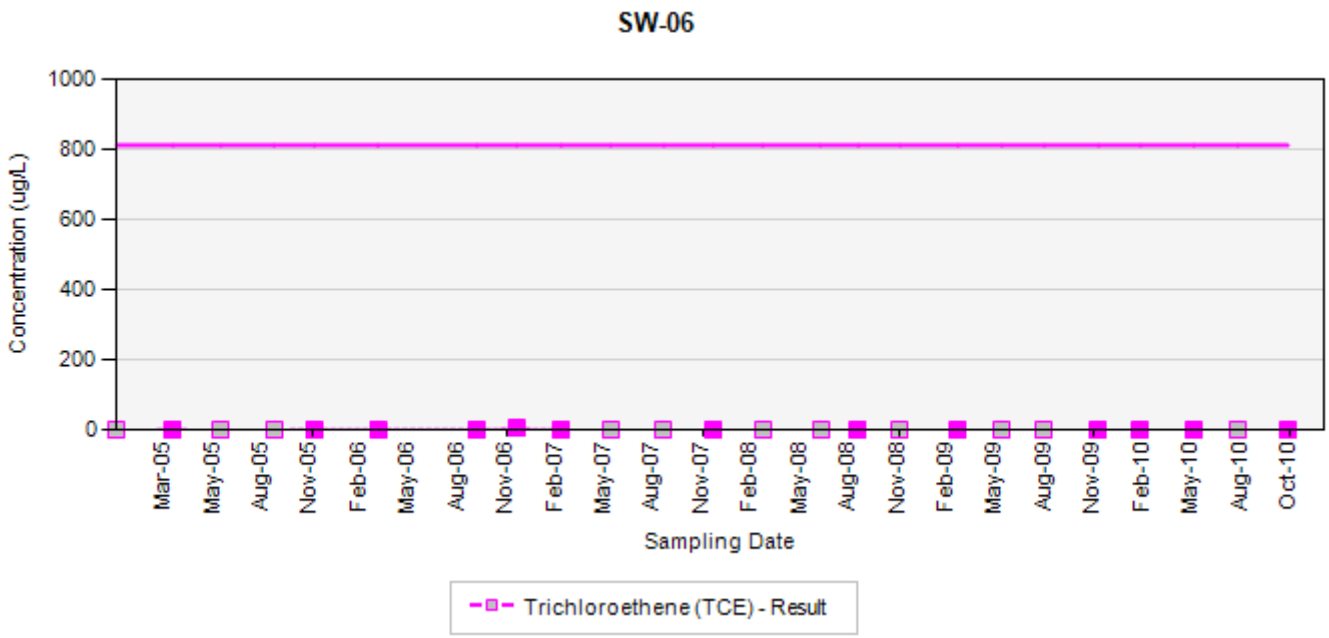

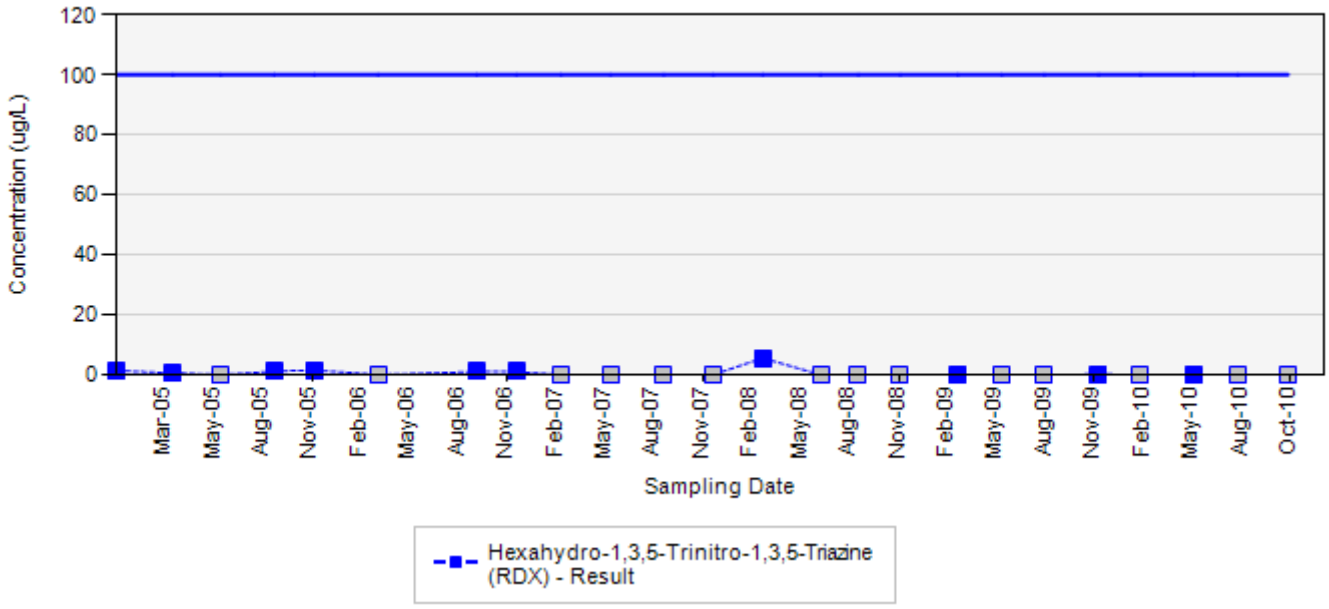

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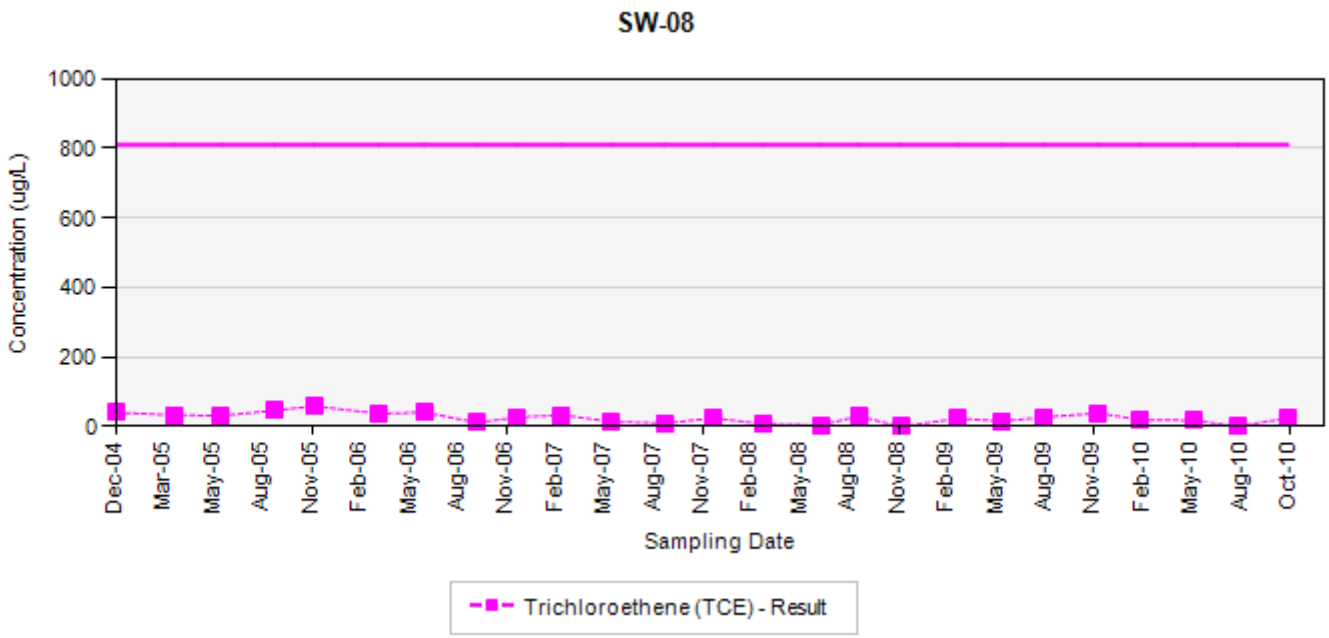

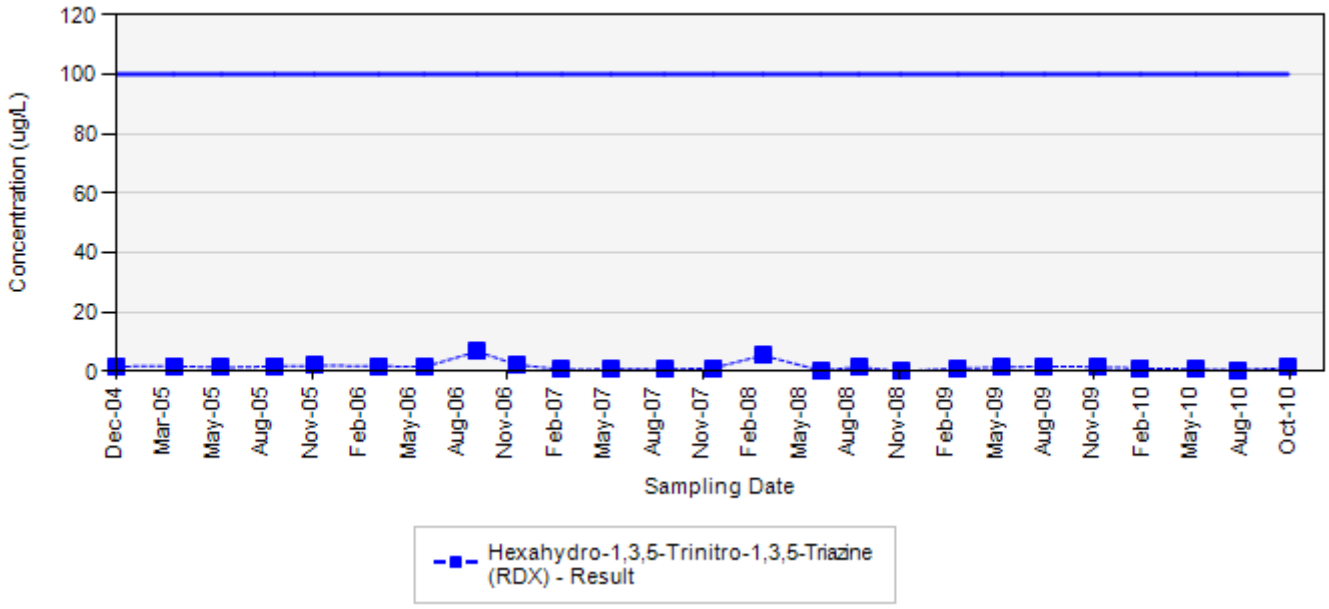

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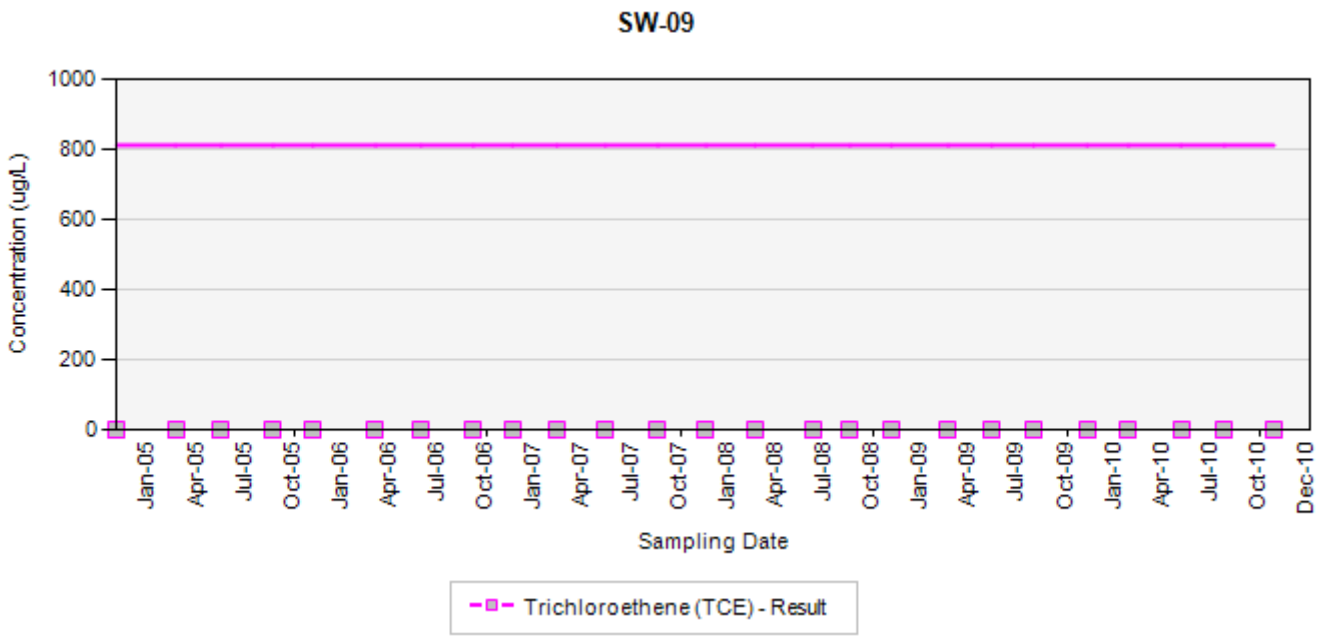

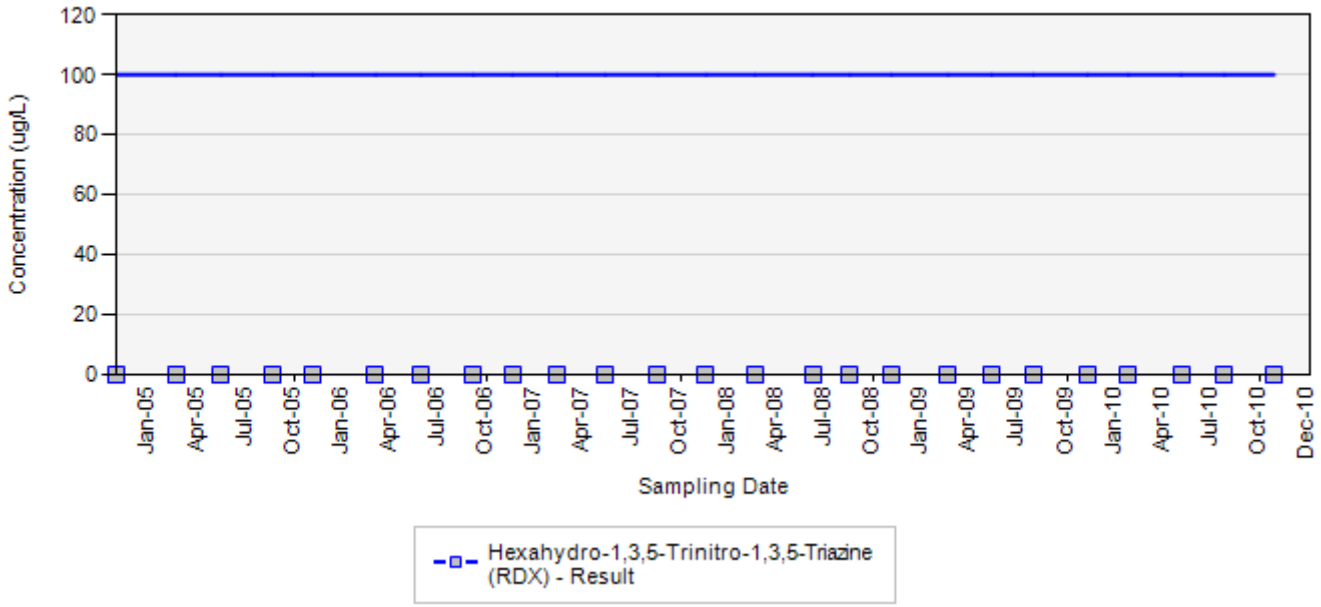

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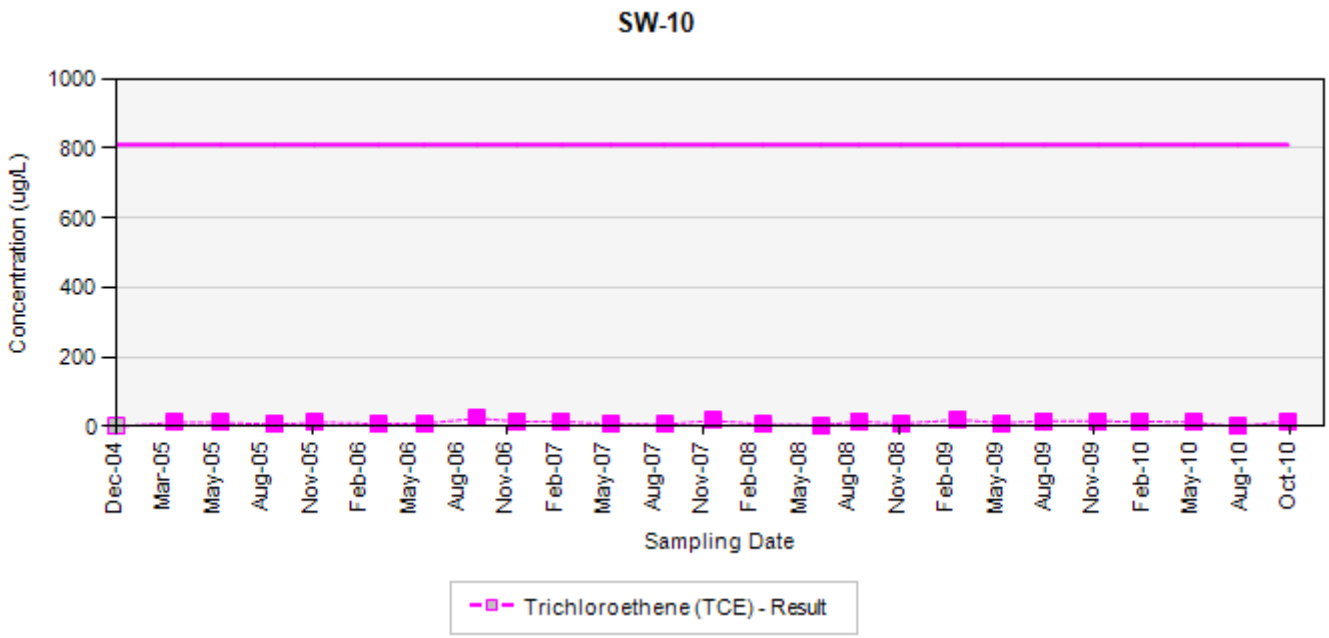

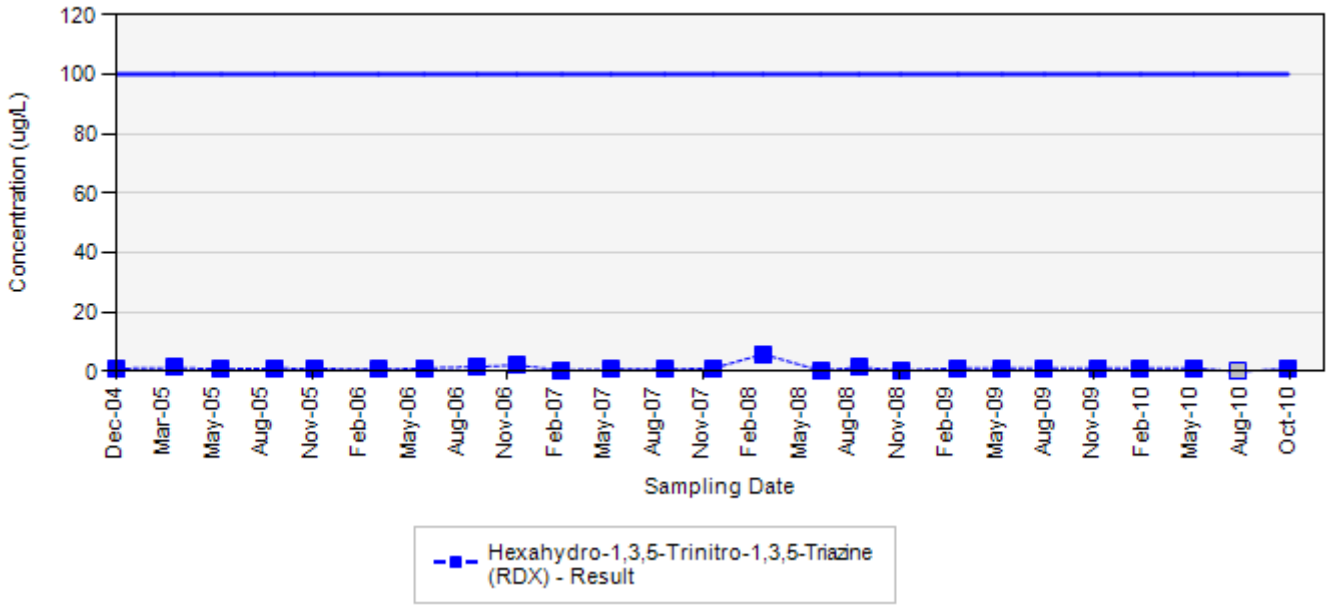

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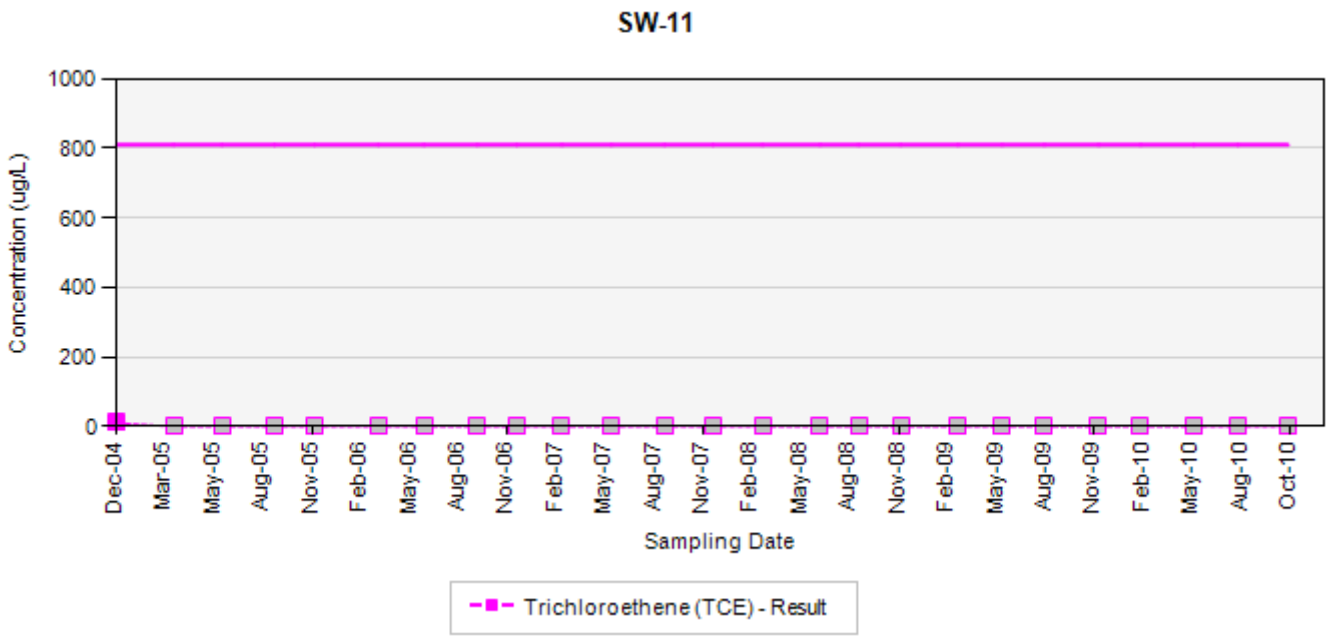

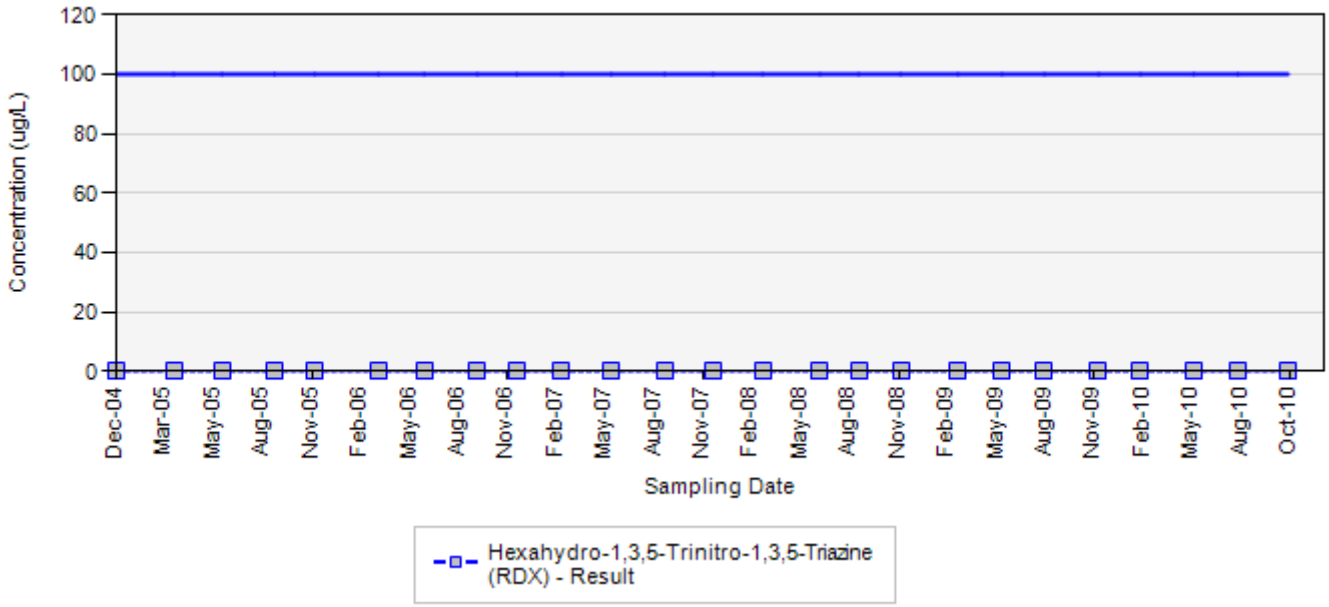

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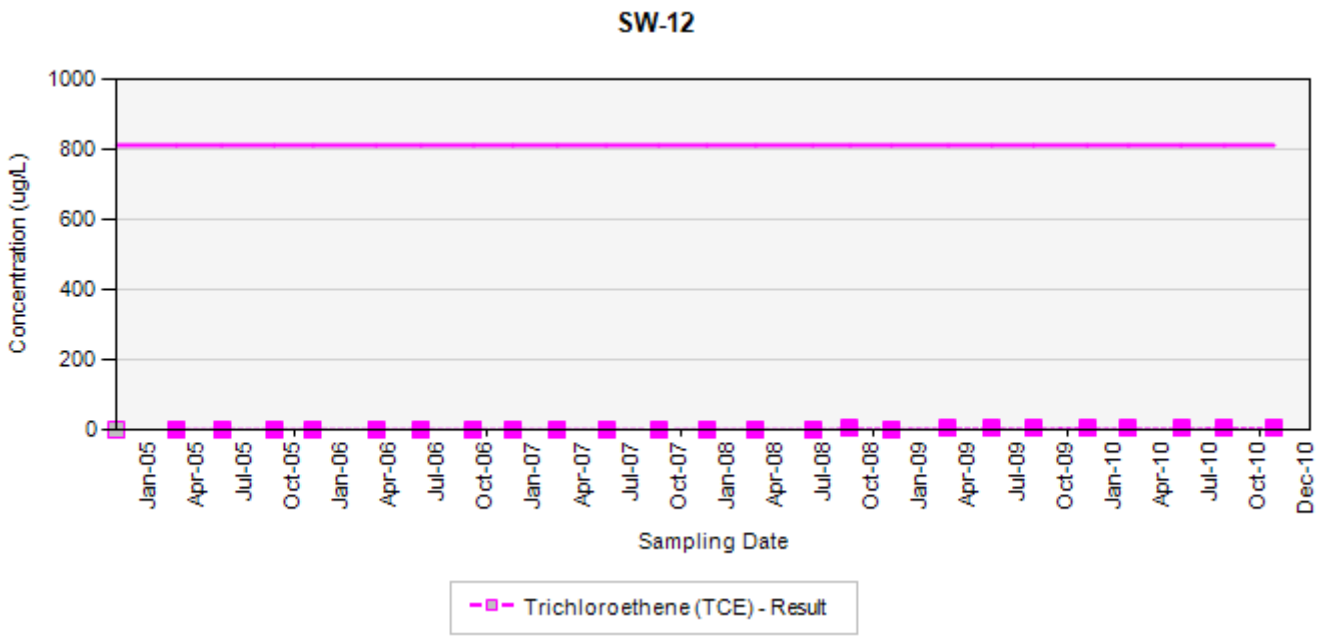

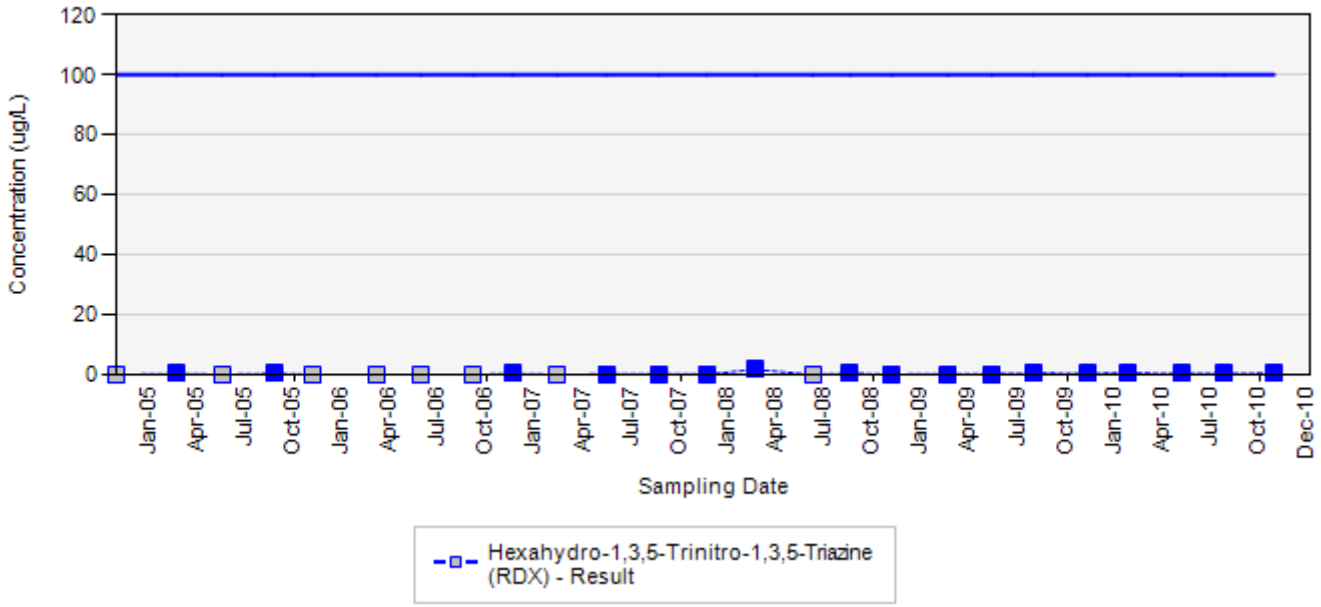

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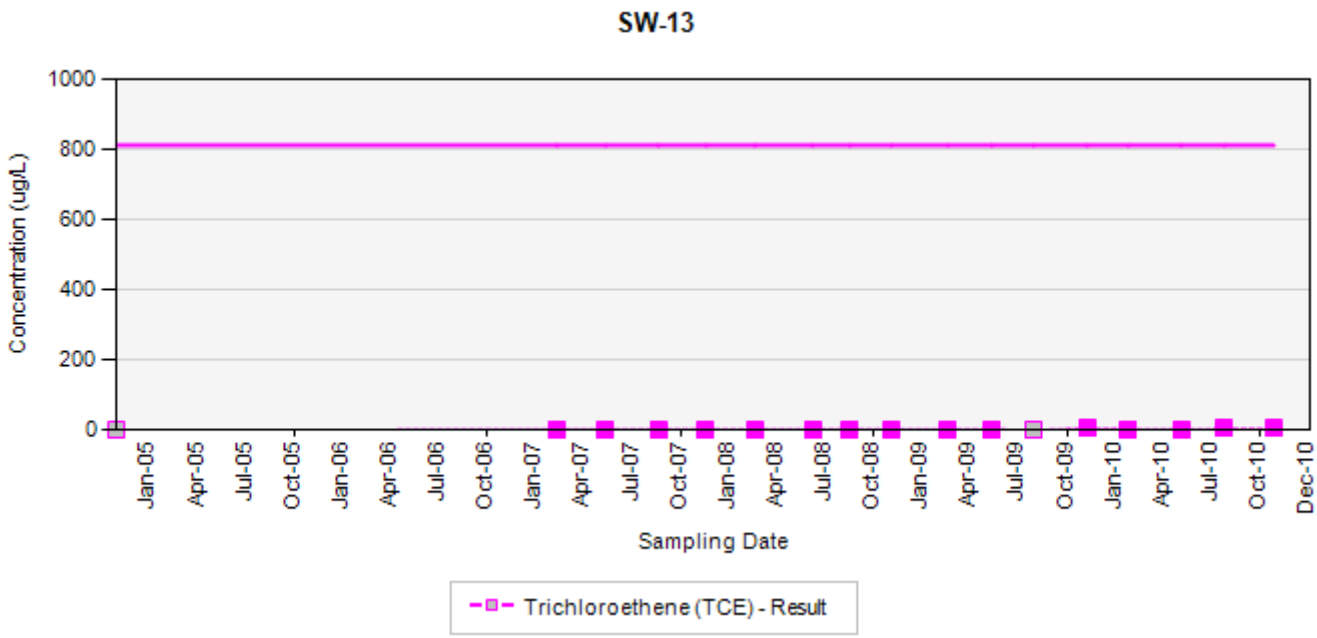

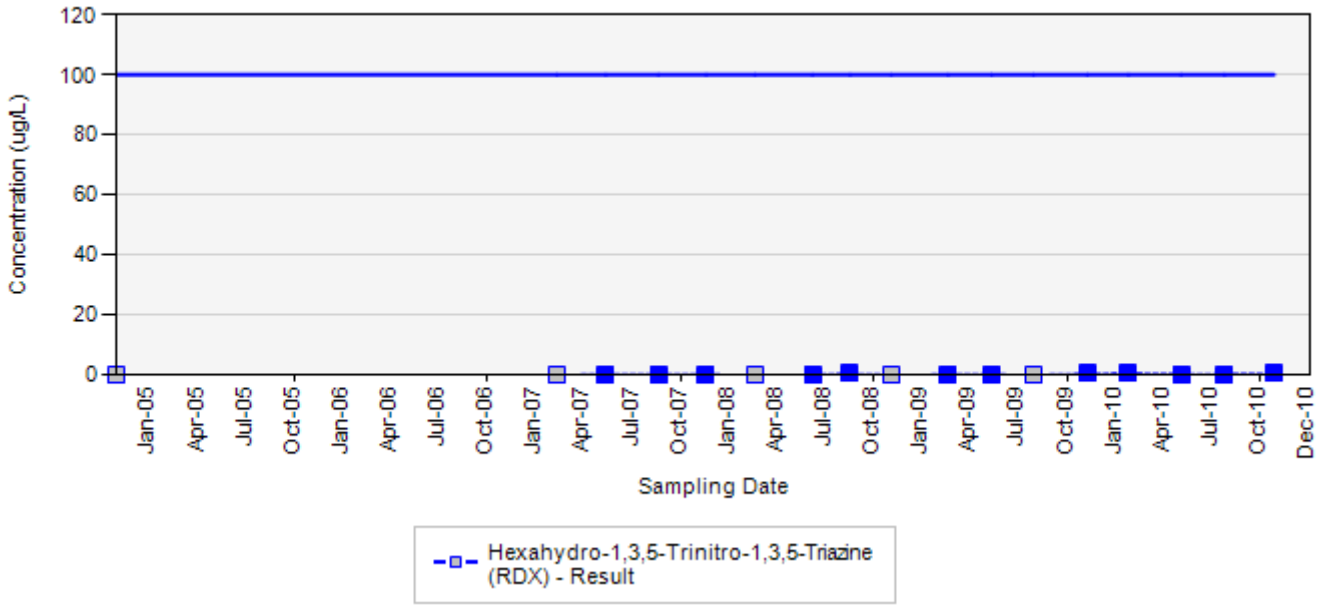

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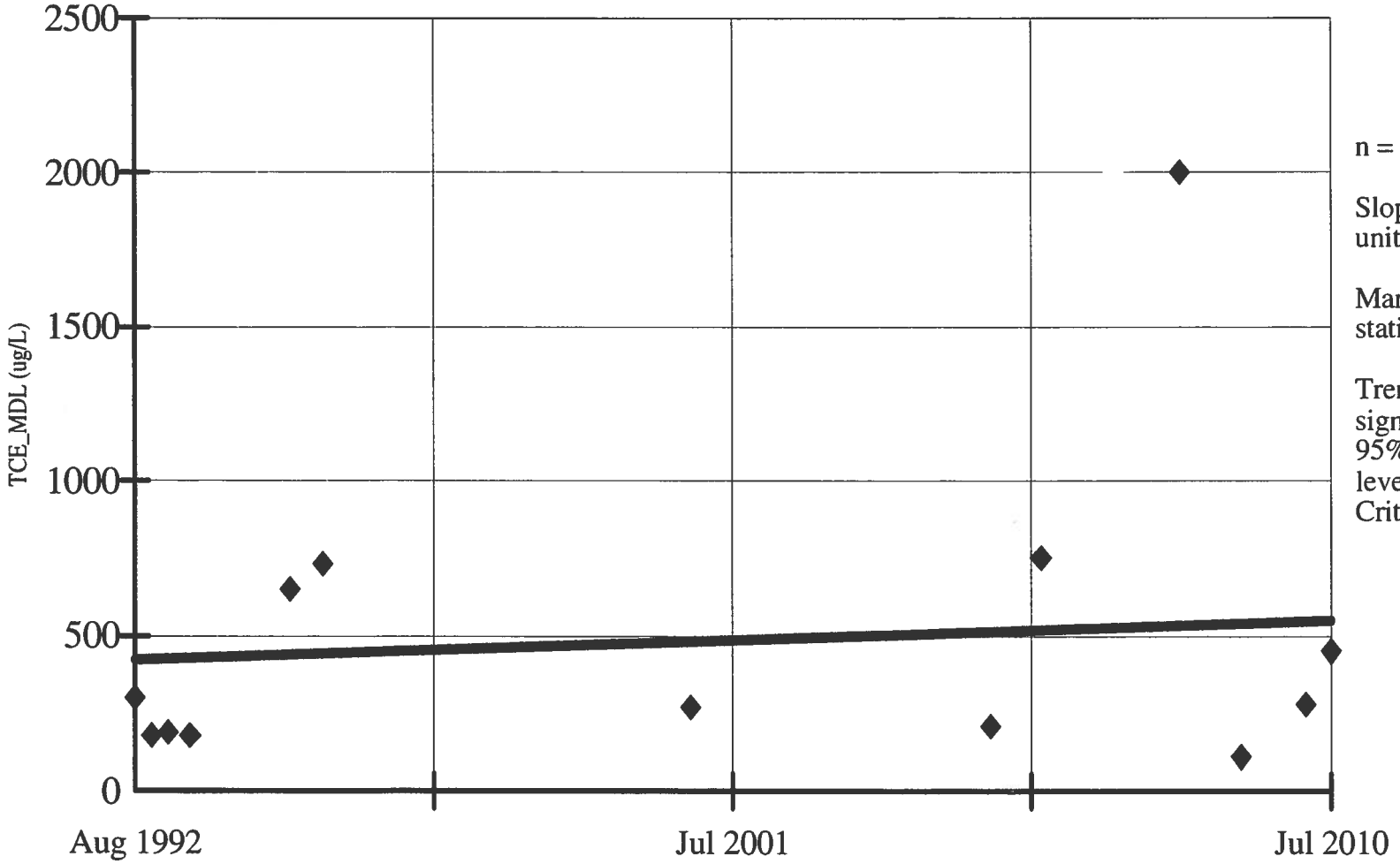
Appendix B
Statistical Charts

TCE

SEN'S SLOPE ESTIMATOR
MW-009A



n = 13.

Slope = 7.169 units per year.

Mann Kendall statistic = 17.

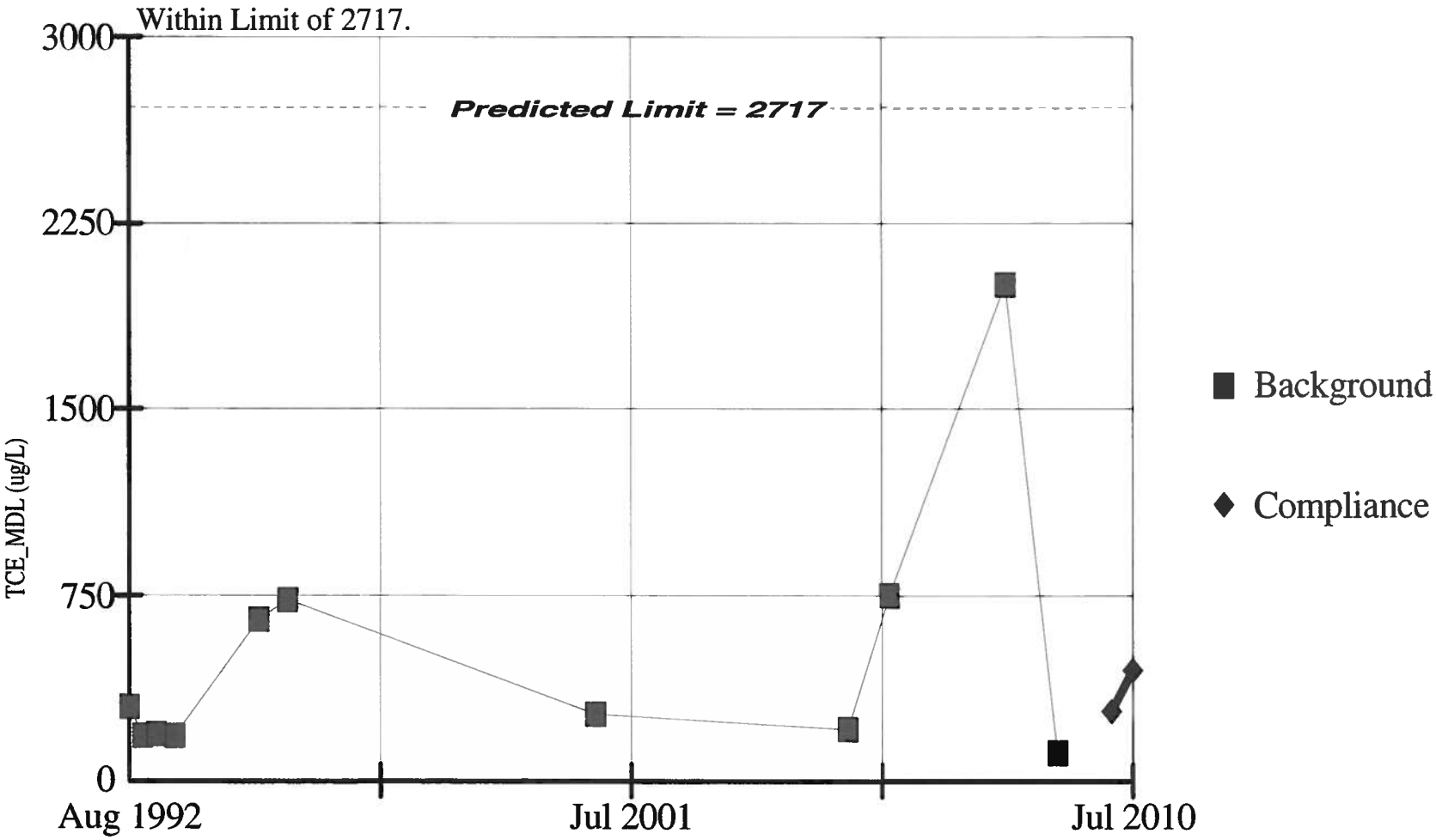
Trend not significant at 95% confidence level (two tailed). Critical value = 34.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:45 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-009A

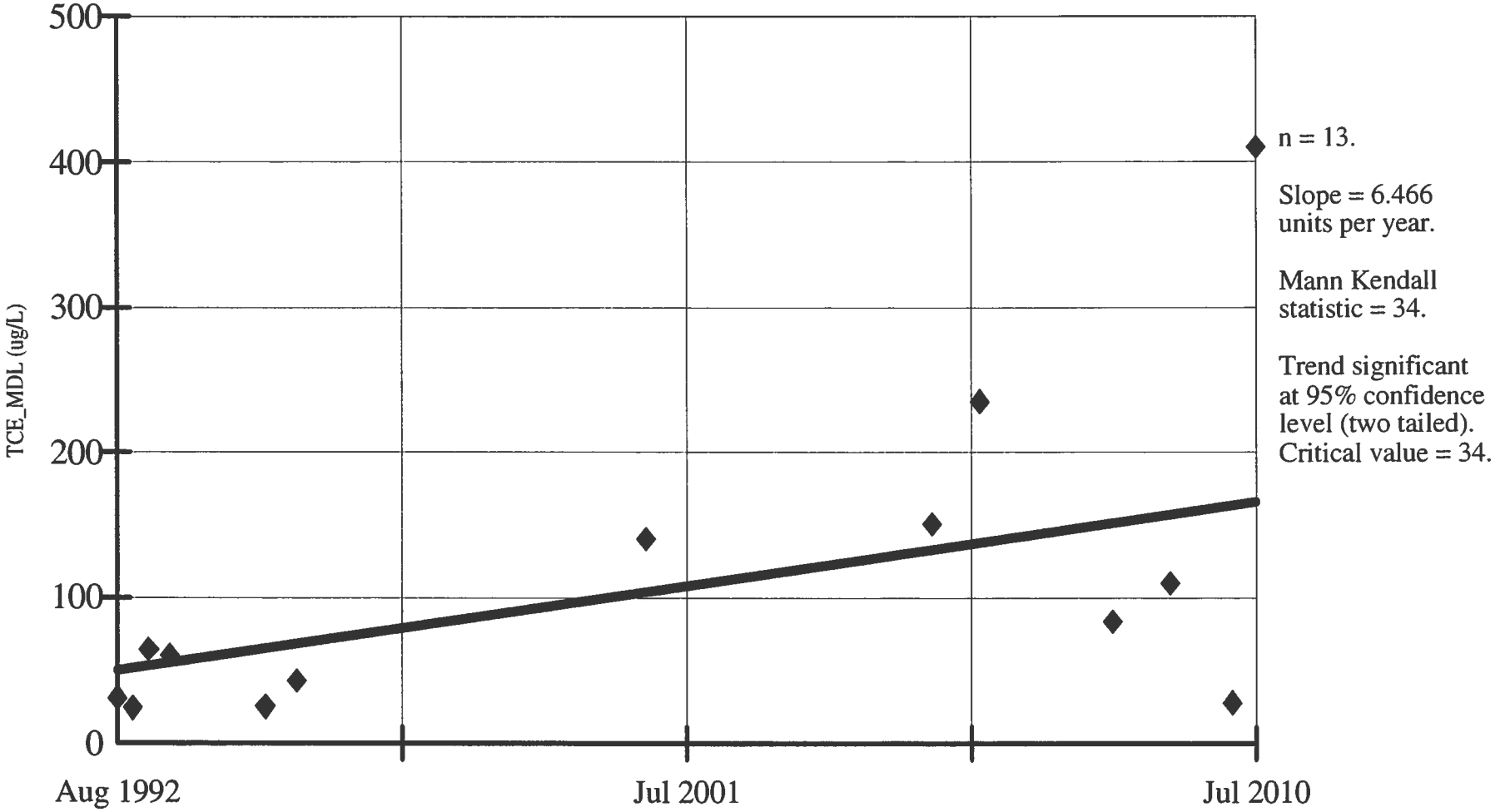


Background Data Summary: (based on cube root(x) transformed data) Mean=7.299, Std. Dev=2.305, 0% nds, 11 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8558, W Quantile = 0.850 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:17 PM Client: ECC View: _Batch_

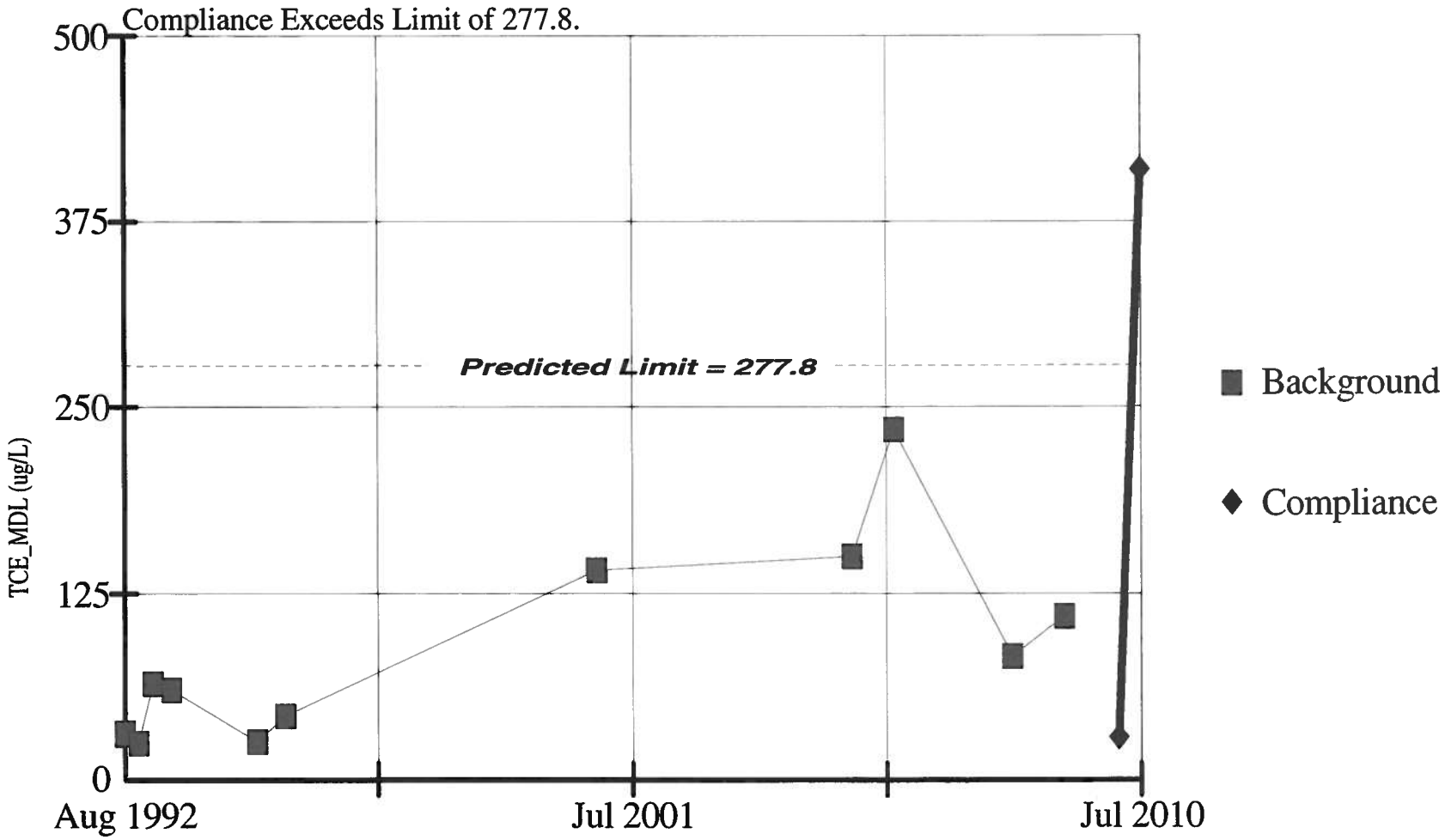
SEN'S SLOPE ESTIMATOR
MW-009B



Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:45 PM Client: ECC View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-009B

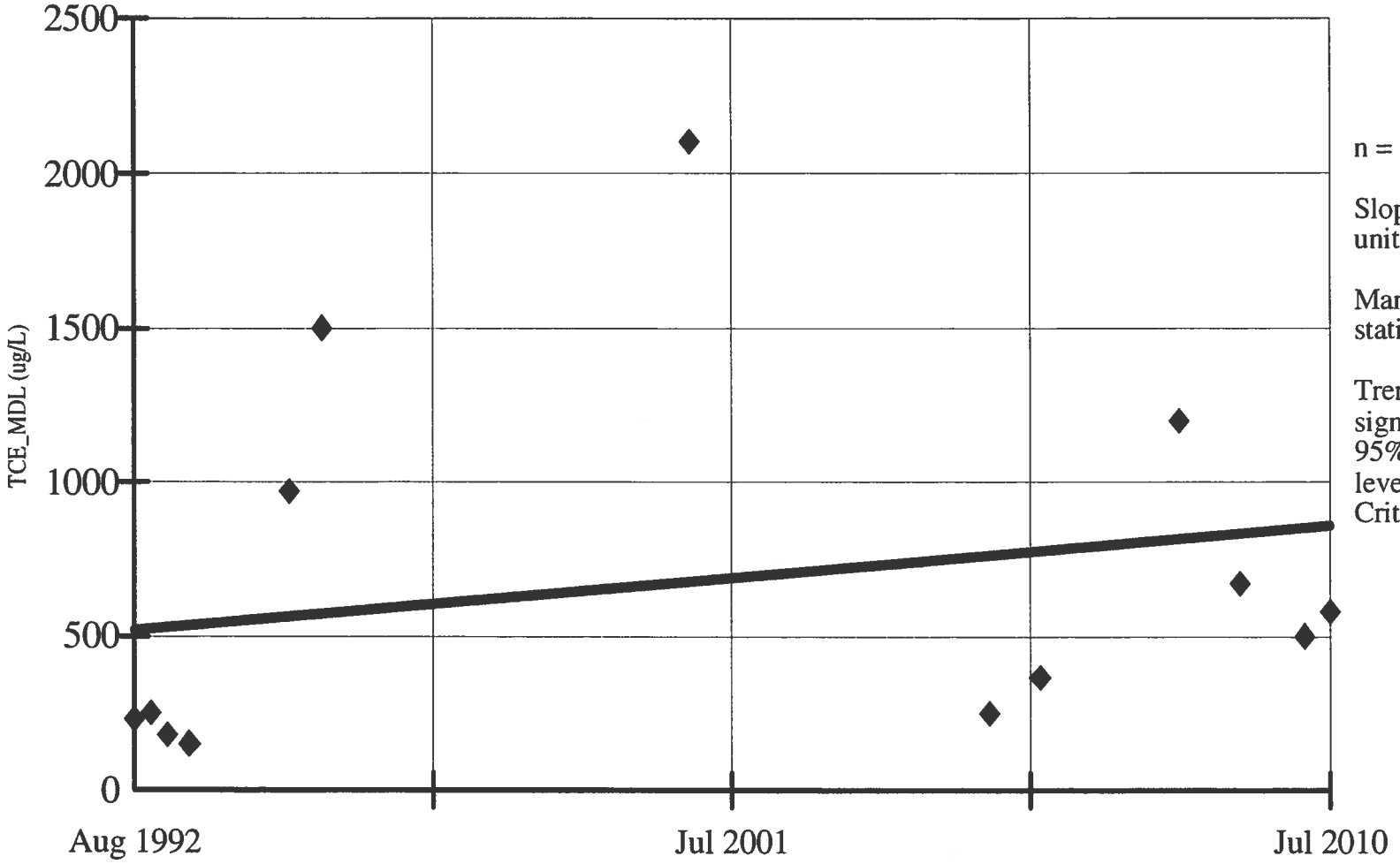


Background Data Summary: Mean=87.73, Std. Dev=65.85, 0% nds, 11 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8807, W Quantile = 0.850 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:17 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-009D



n = 13.

Slope = 18.708 units per year.

Mann Kendall statistic = 23.

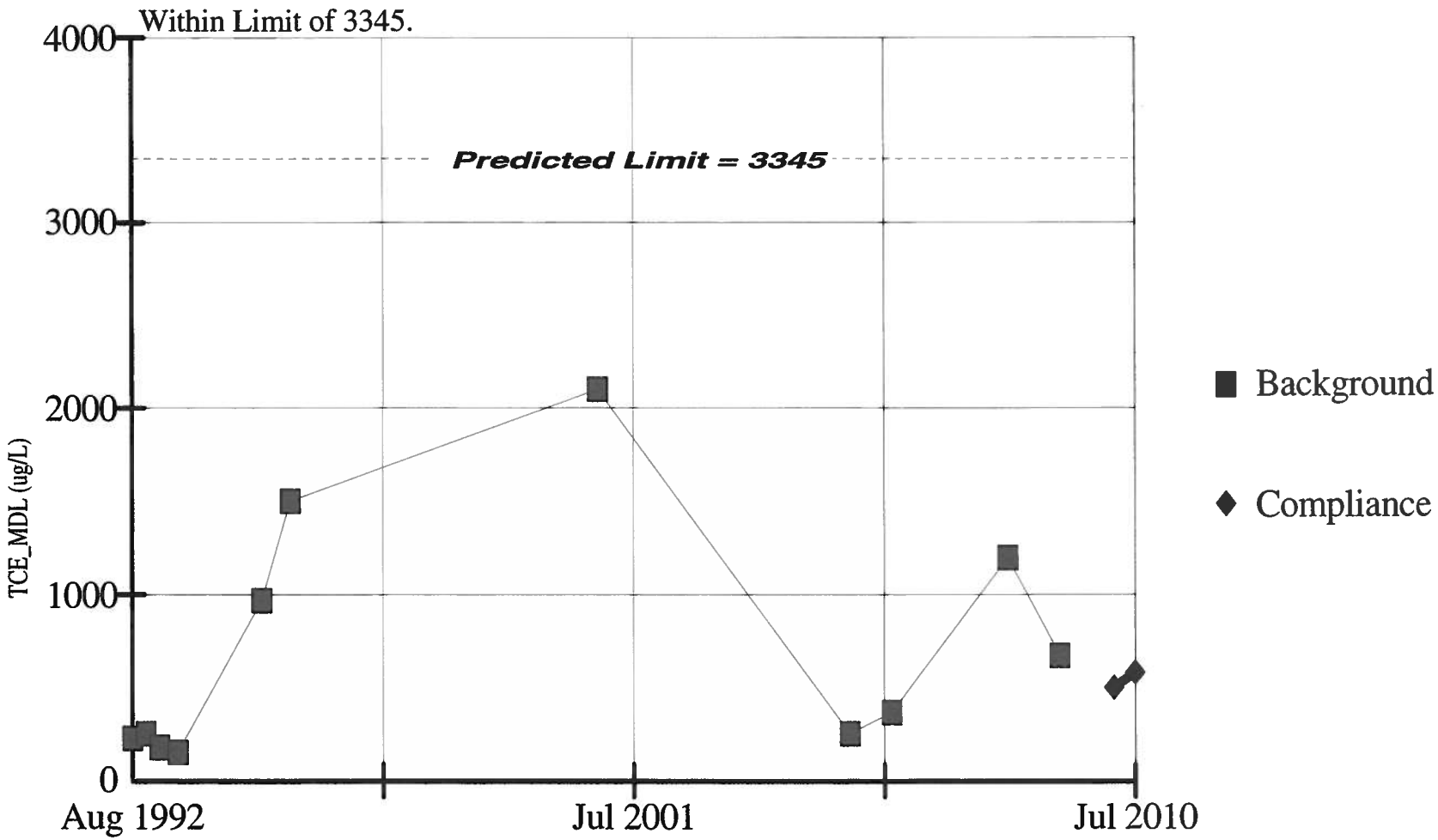
Trend not significant at 95% confidence level (two tailed). Critical value = 34.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:45 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-009D

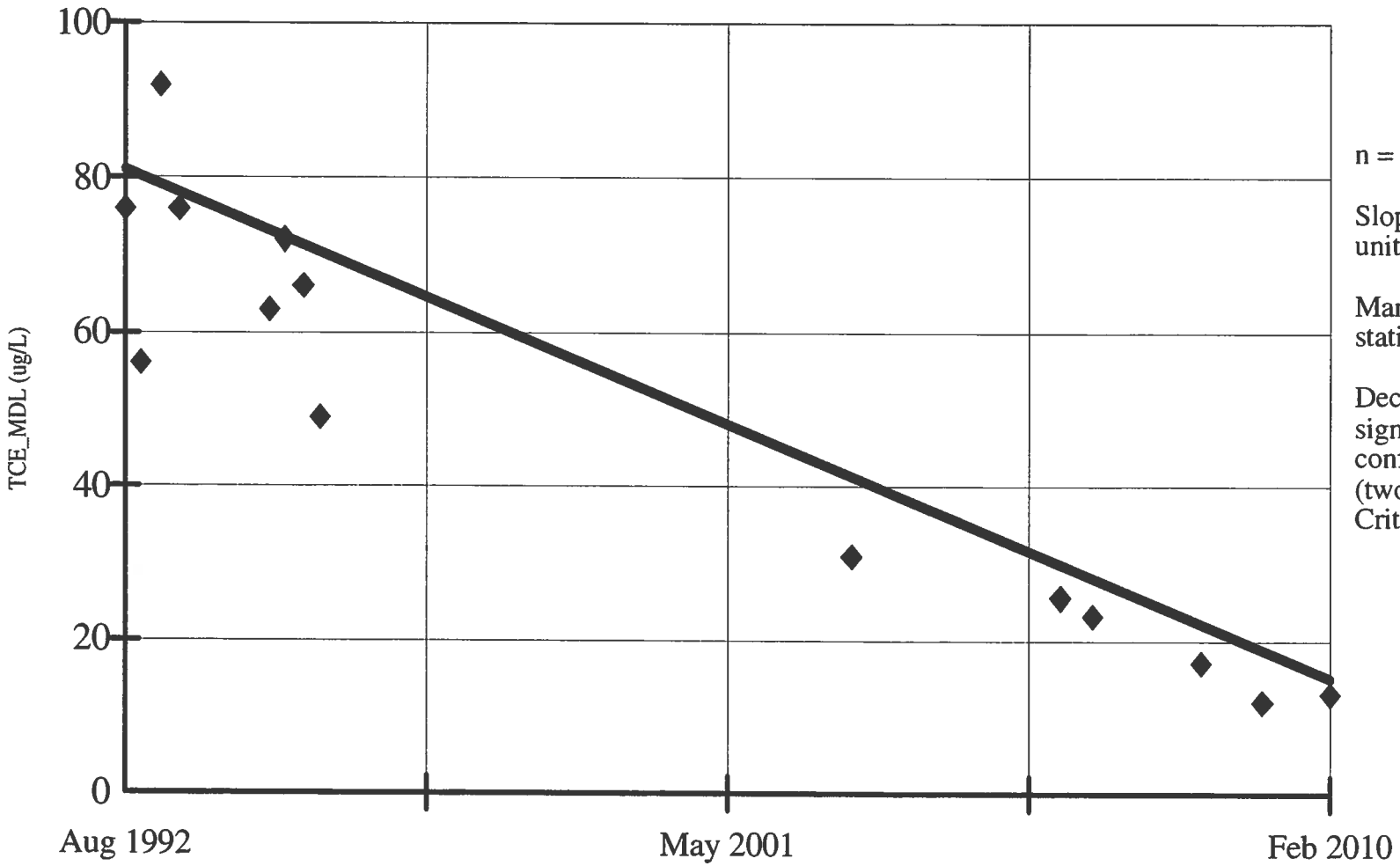


Background Data Summary: (based on square root(x) transformed data) Mean=24.34, Std. Dev=11.6, 0% nds, 11 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8836, W Quantile = 0.850 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:17 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-018C



n = 14.

Slope = -3.767 units per year.

Mann Kendall statistic = -72.

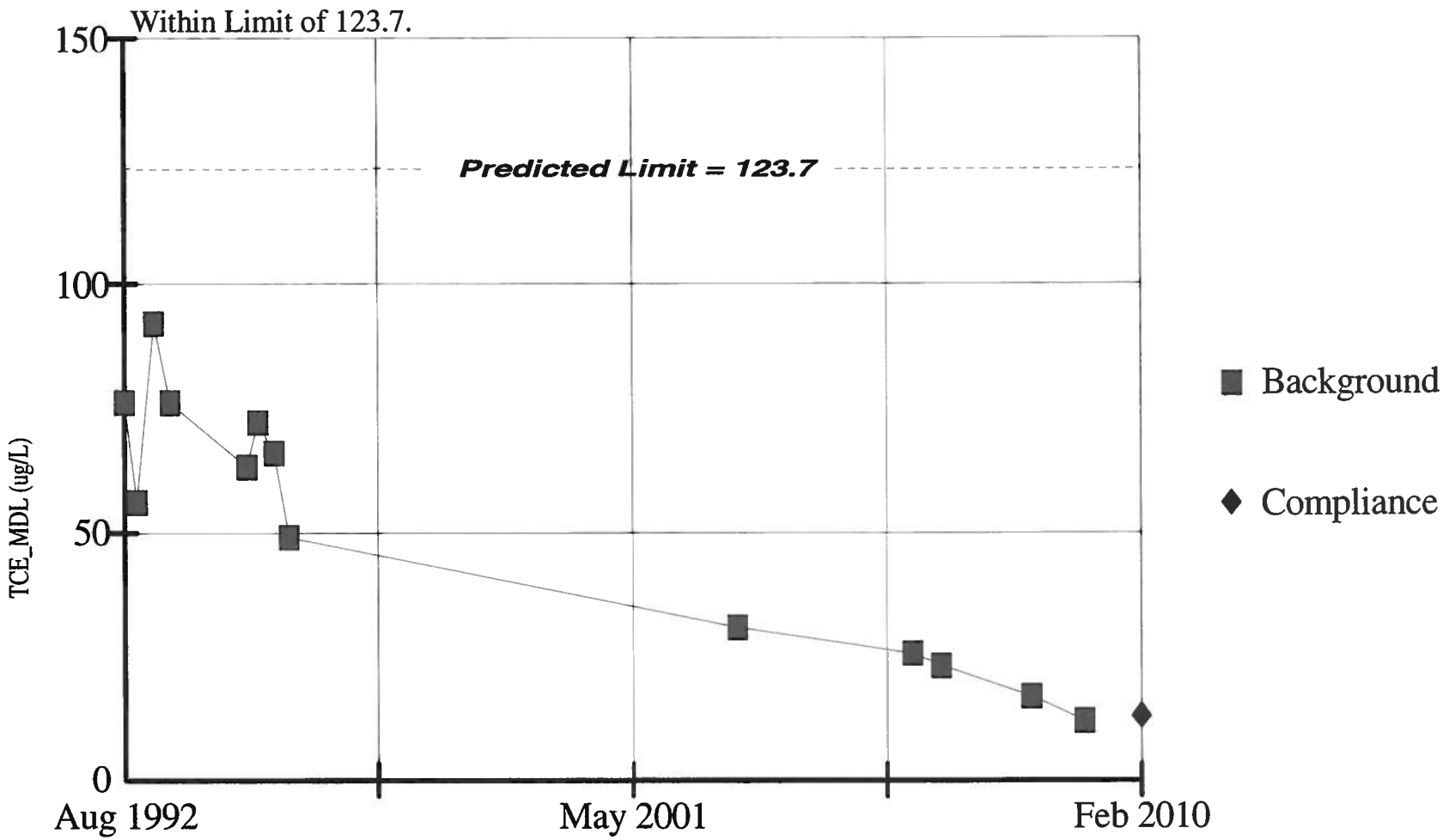
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -37.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:45 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-018C

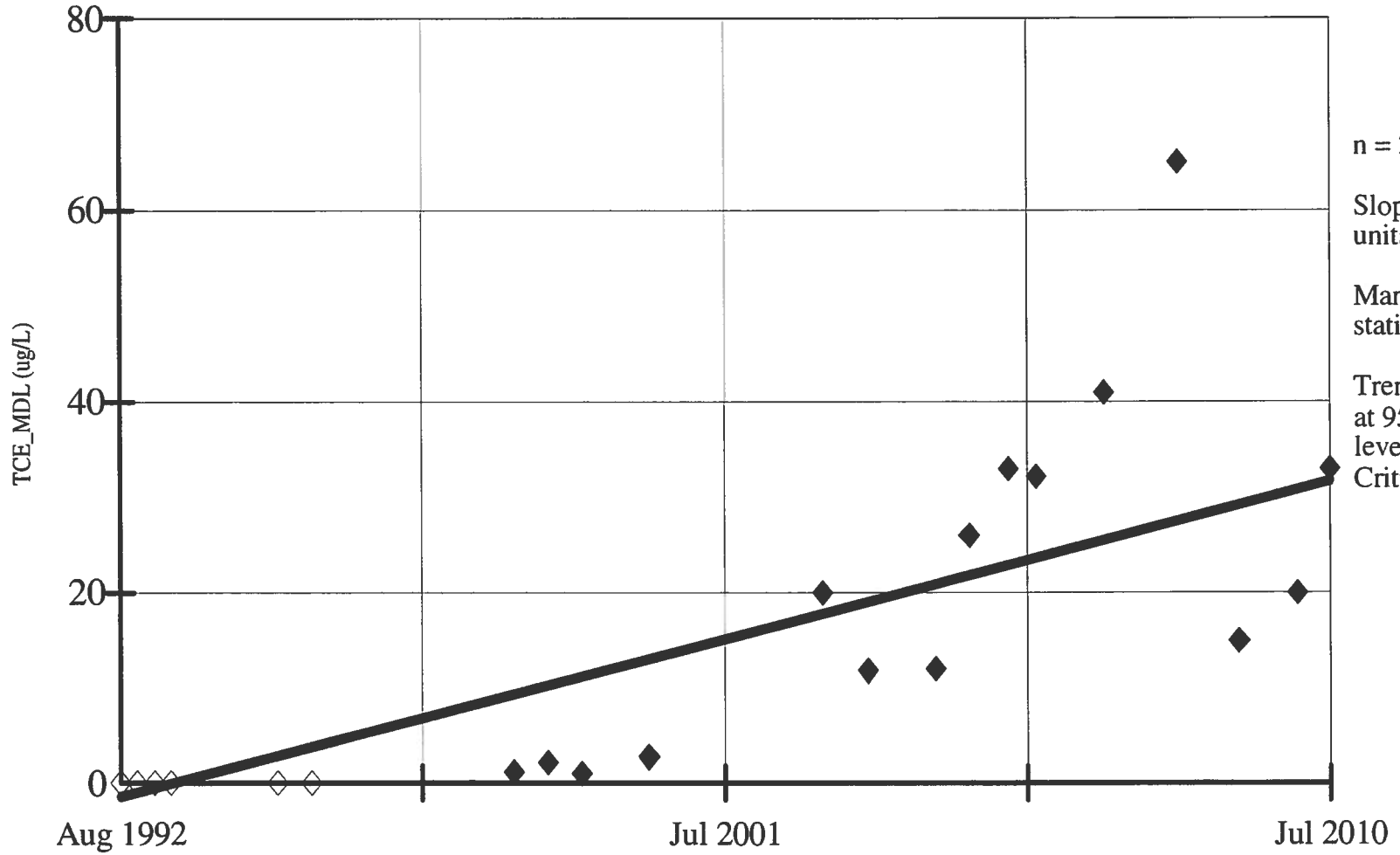


Background Data Summary: Mean=50.65, Std. Dev=26.27, 0% nds, 13 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.931, W Quantile = 0.866 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:17 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-021A



n = 21.

Slope = 1.848 units per year.

Mann Kendall statistic = 157.

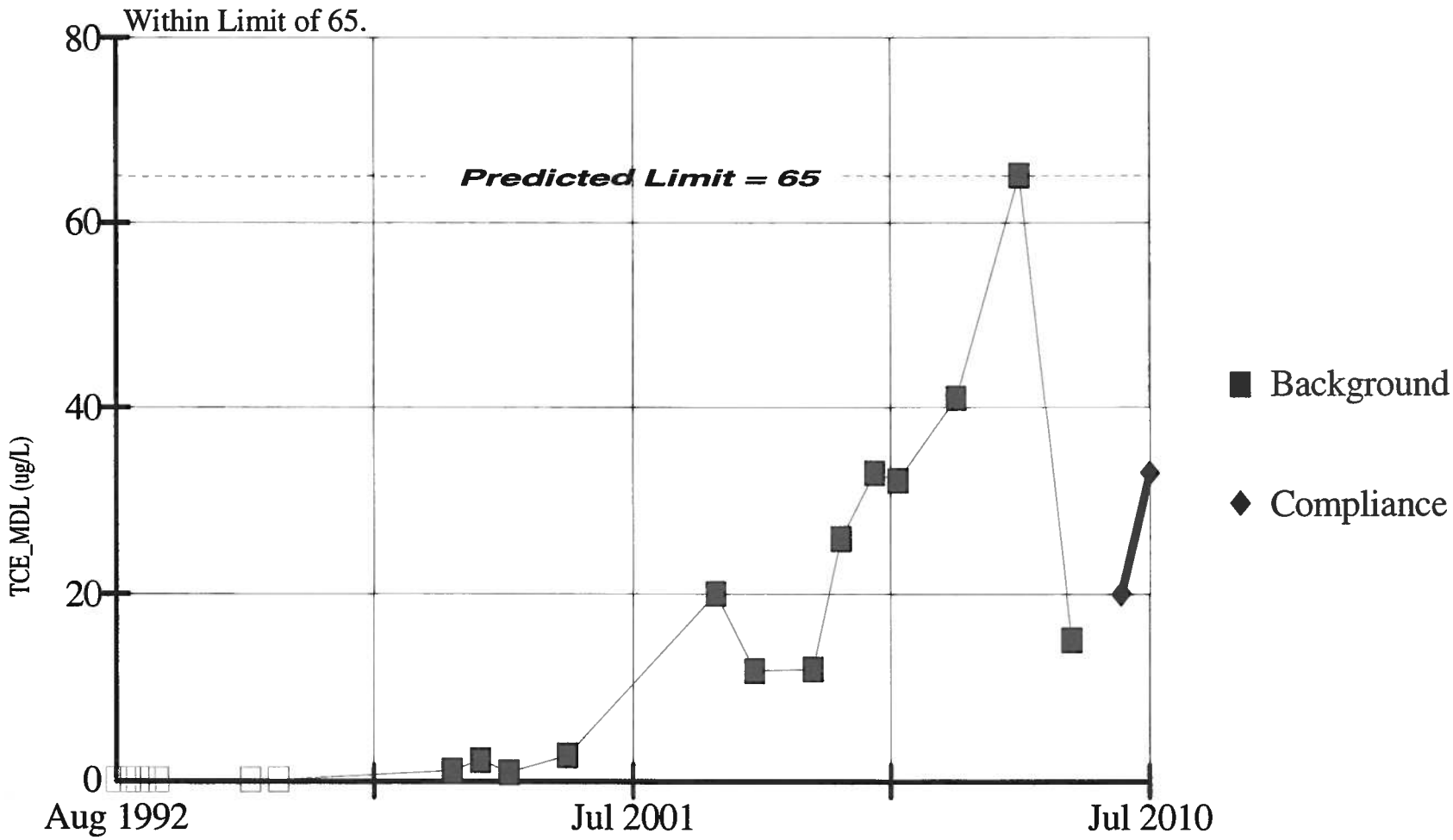
Trend significant at 95% confidence level (two tailed). Critical value = 66.

Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:45 PM Client: ECC View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-021A

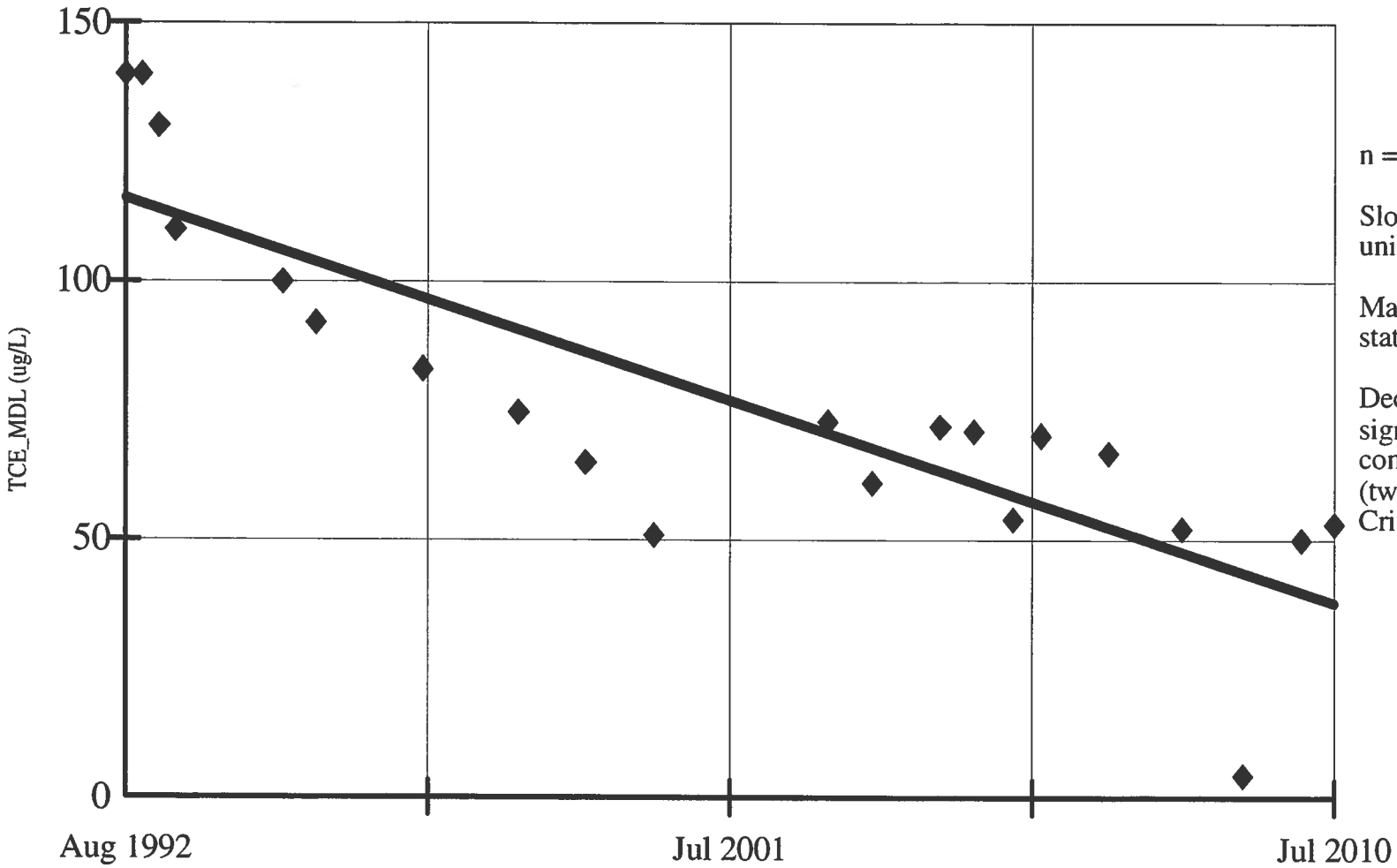


19 background obs. Testwise alpha = 0.05 Most recent point compared to limit. Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit after ladder of powers failed to adequately normalize data.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:17 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-021B



n = 21.

Slope = -4.364 units per year.

Mann Kendall statistic = -161.

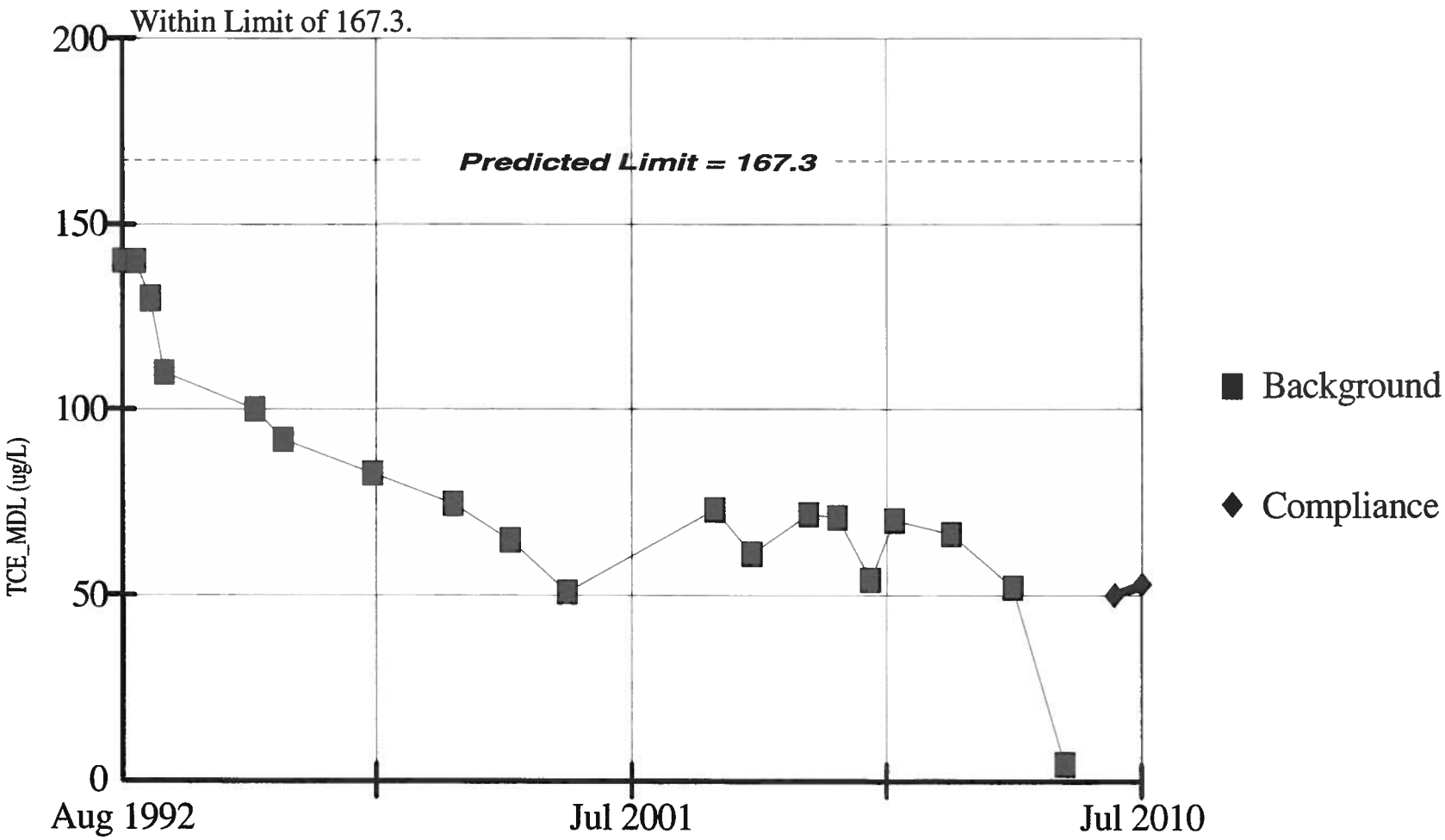
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -66.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:45 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-021B

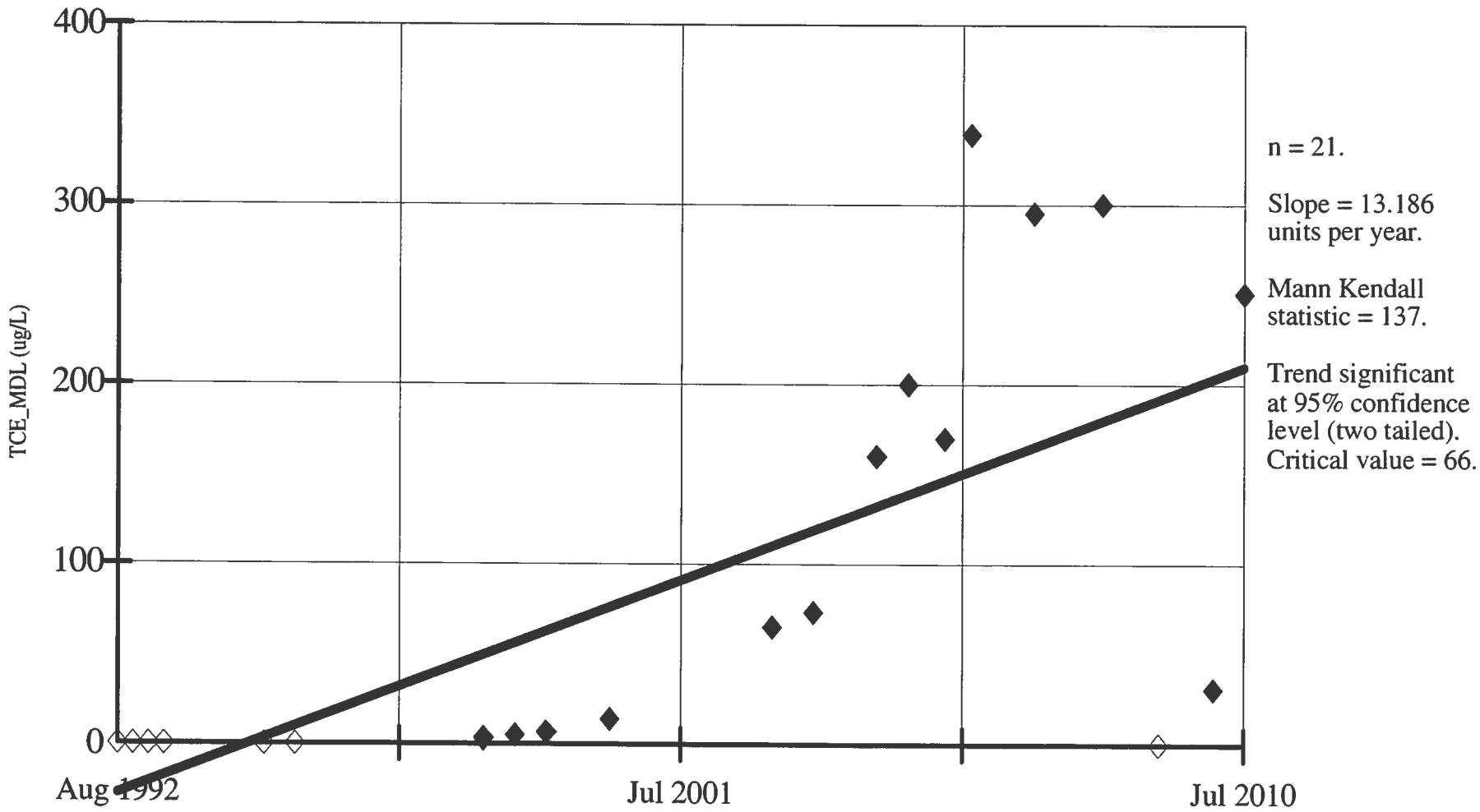


Background Data Summary: Mean=79.45, Std. Dev=33.55, 0% nds, 19 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9289, W Quantile = 0.901 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:17 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-021D



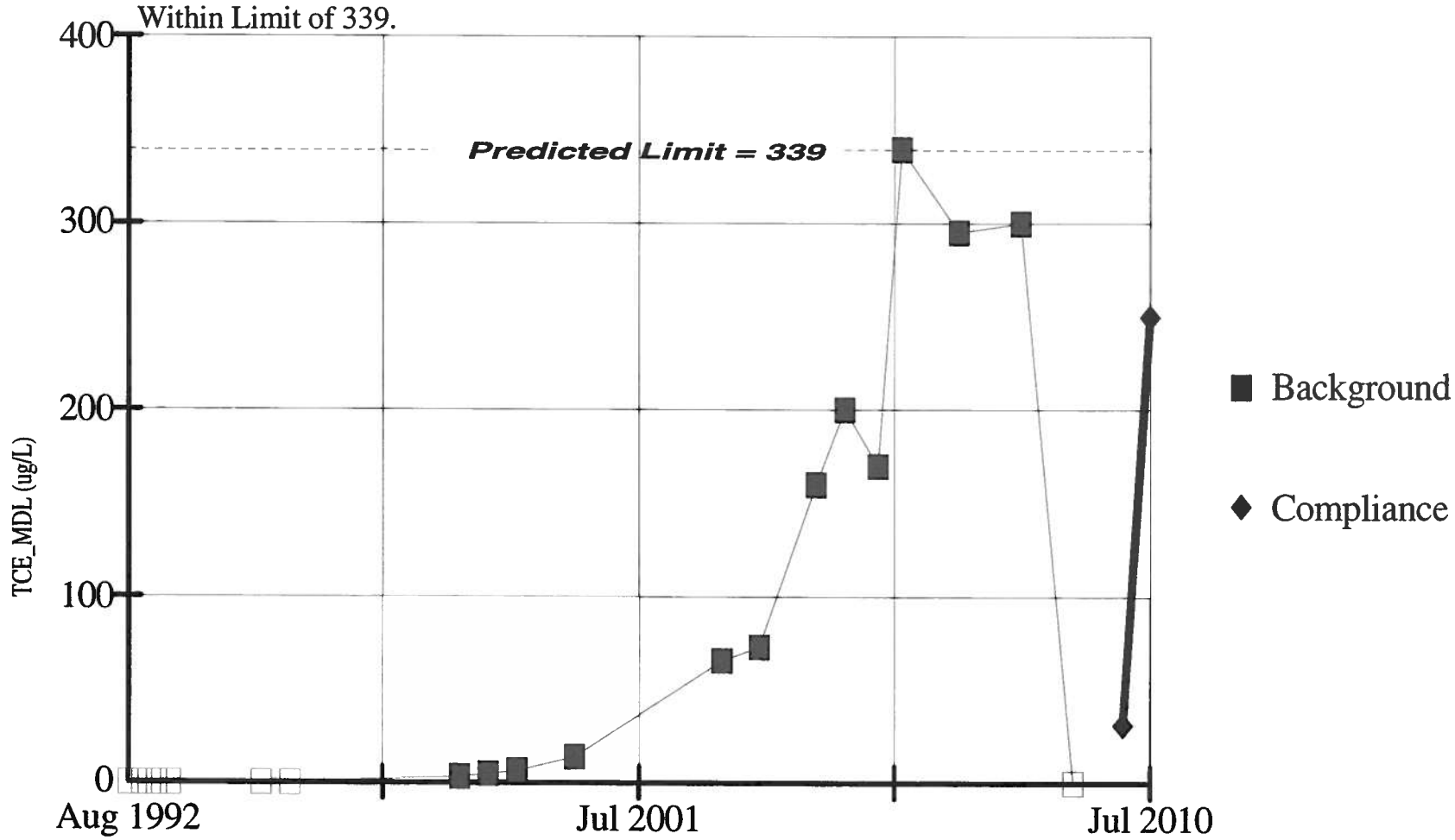
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:45 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-021D

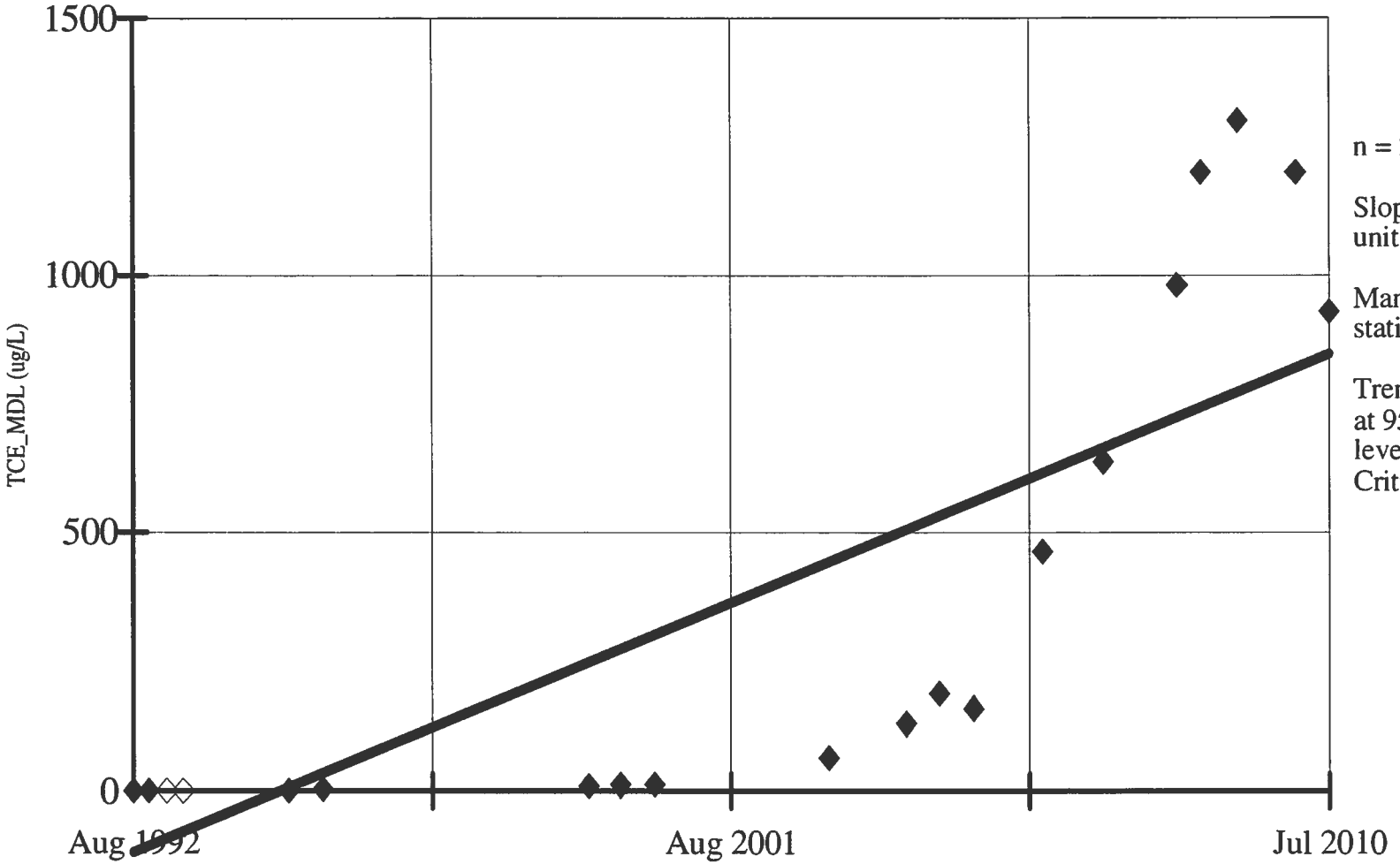


19 background obs. Testwise alpha = 0.05 Most recent point compared to limit. Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit after ladder of powers failed to adequately normalize data.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:18 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-024A



n = 20.

Slope = 53.838 units per year.

Mann Kendall statistic = 165.

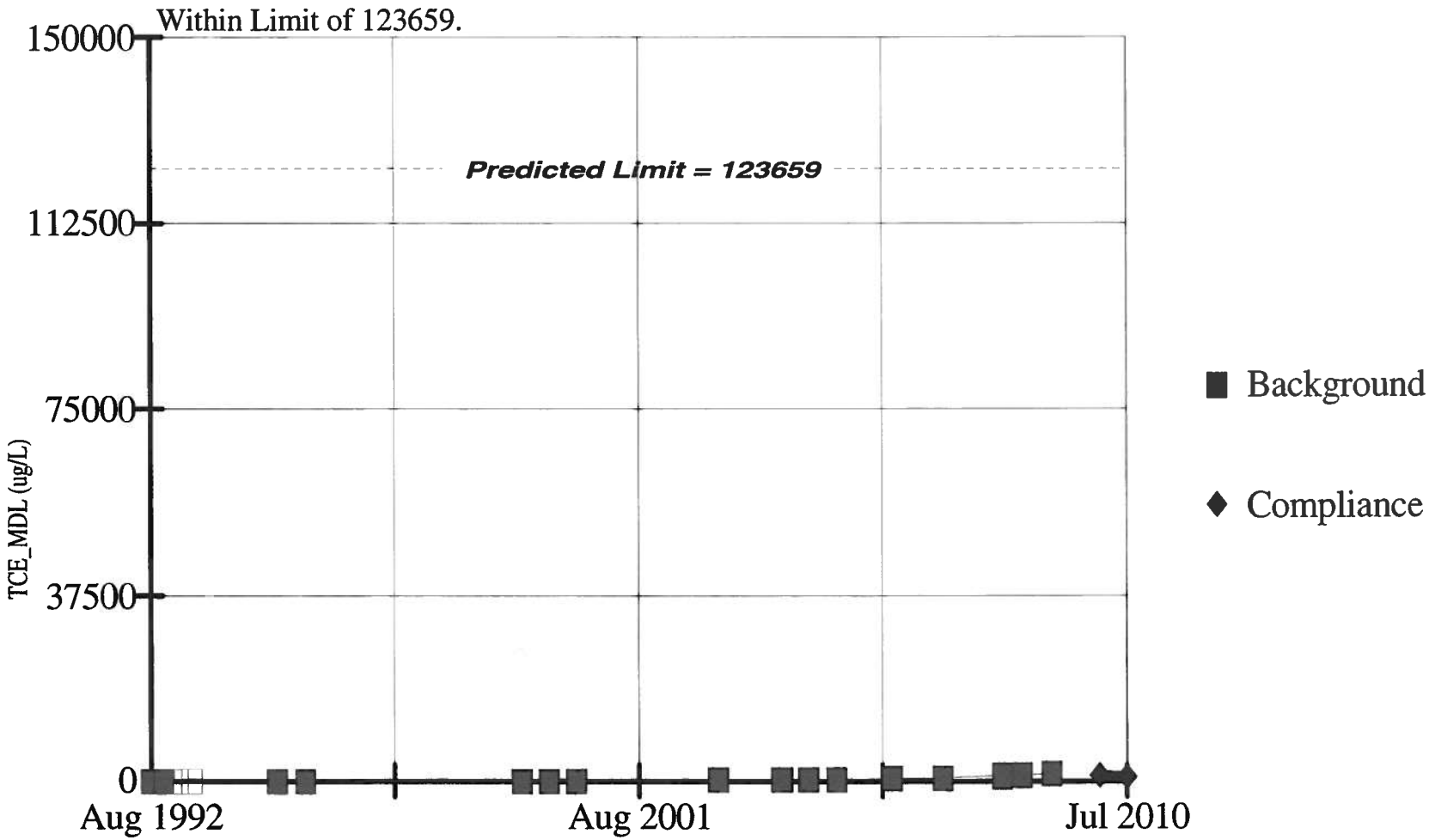
Trend significant at 95% confidence level (two tailed). Critical value = 62.

Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:45 PM Client: ECC View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-024A

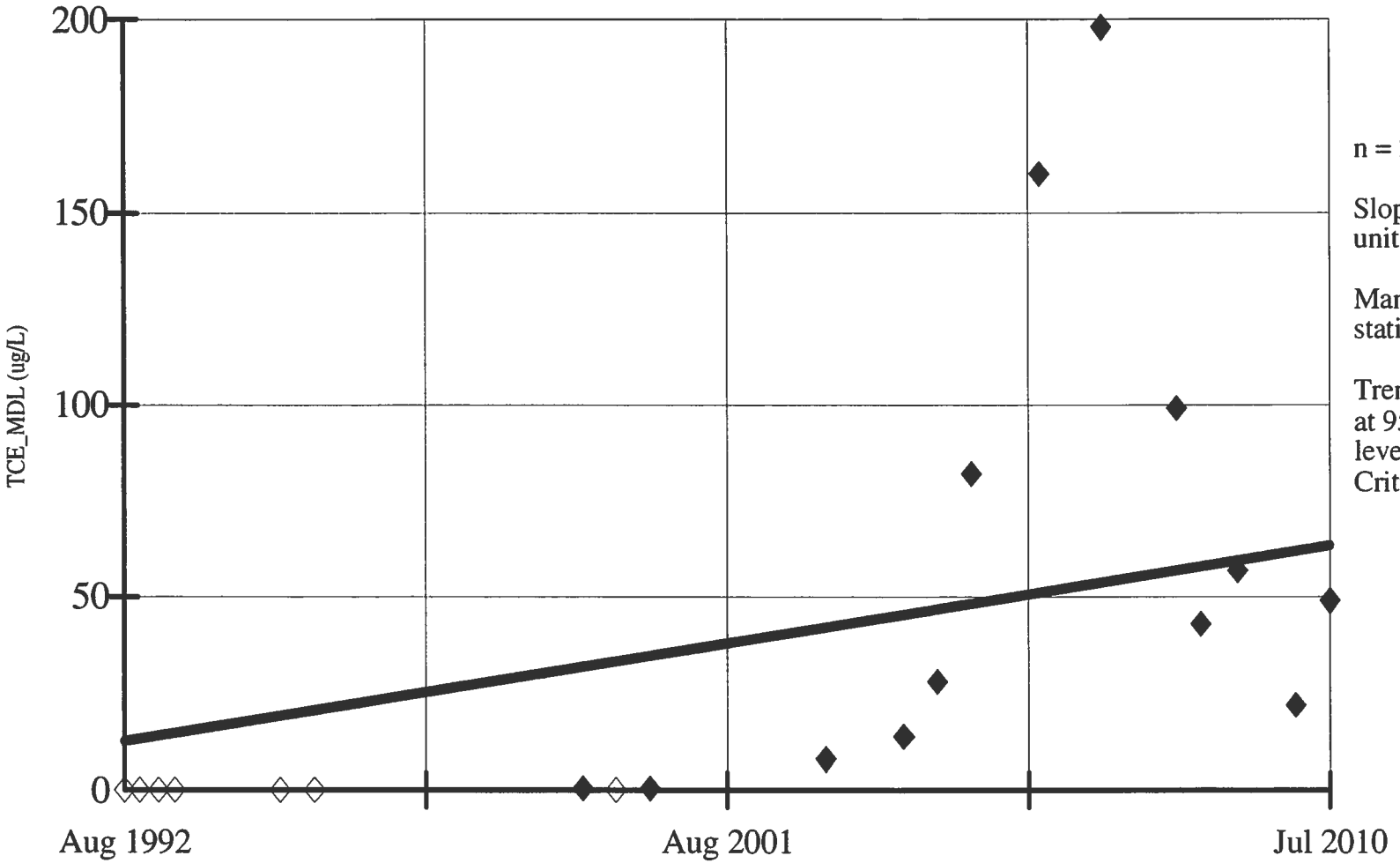


Background Data Summary: (based on ln(x) transformed data) Mean=3.102, Std. Dev=3.27, 11.11% nds, 18 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9196, W Quantile = 0.897 at alpha = 0.05. Transformation can result in mathematically correct but practically inappropriate limits. Review report carefully. Testwise alpha = 0.01 Most recent point compared to limit. Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:18 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-024B



n = 20.

Slope = 2.849 units per year.

Mann Kendall statistic = 121.

Trend significant at 95% confidence level (two tailed). Critical value = 62.

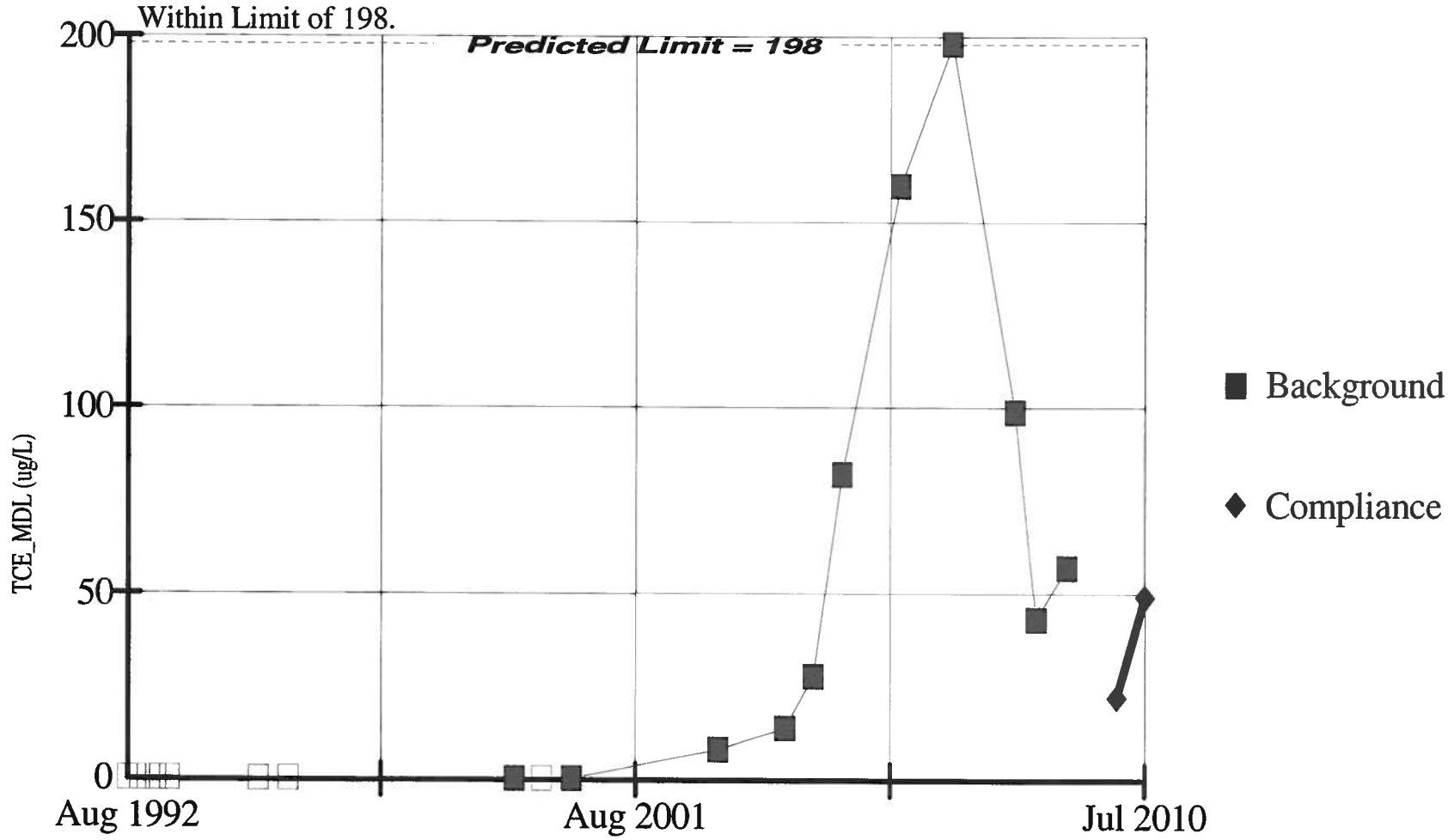
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:45 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-024B

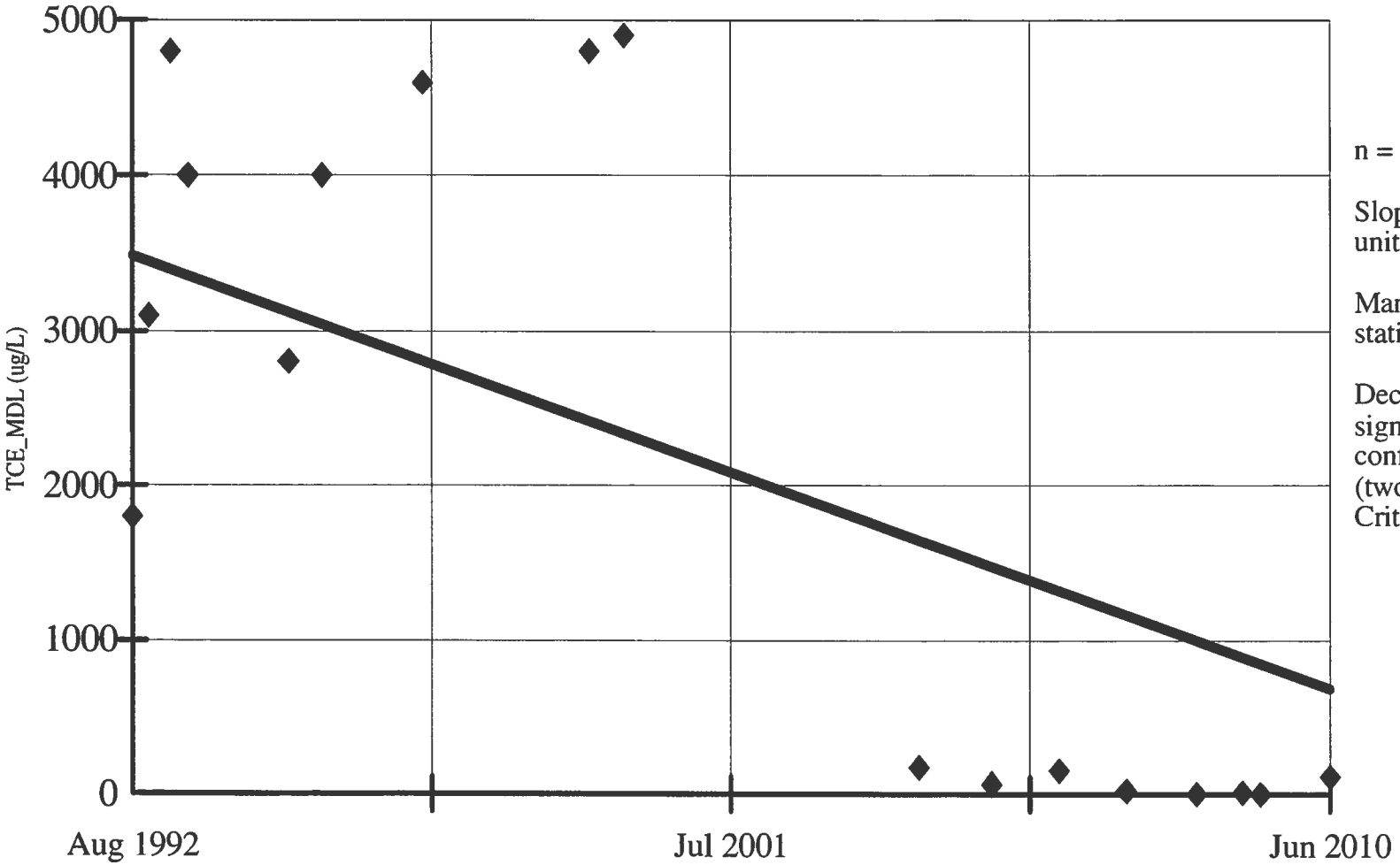


18 background obs. Testwise alpha = 0.05263 Most recent point compared to limit. Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit after ladder of powers failed to adequately normalize data.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:18 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-040B



n = 17.

Slope = -156.822 units per year.

Mann Kendall statistic = -62.

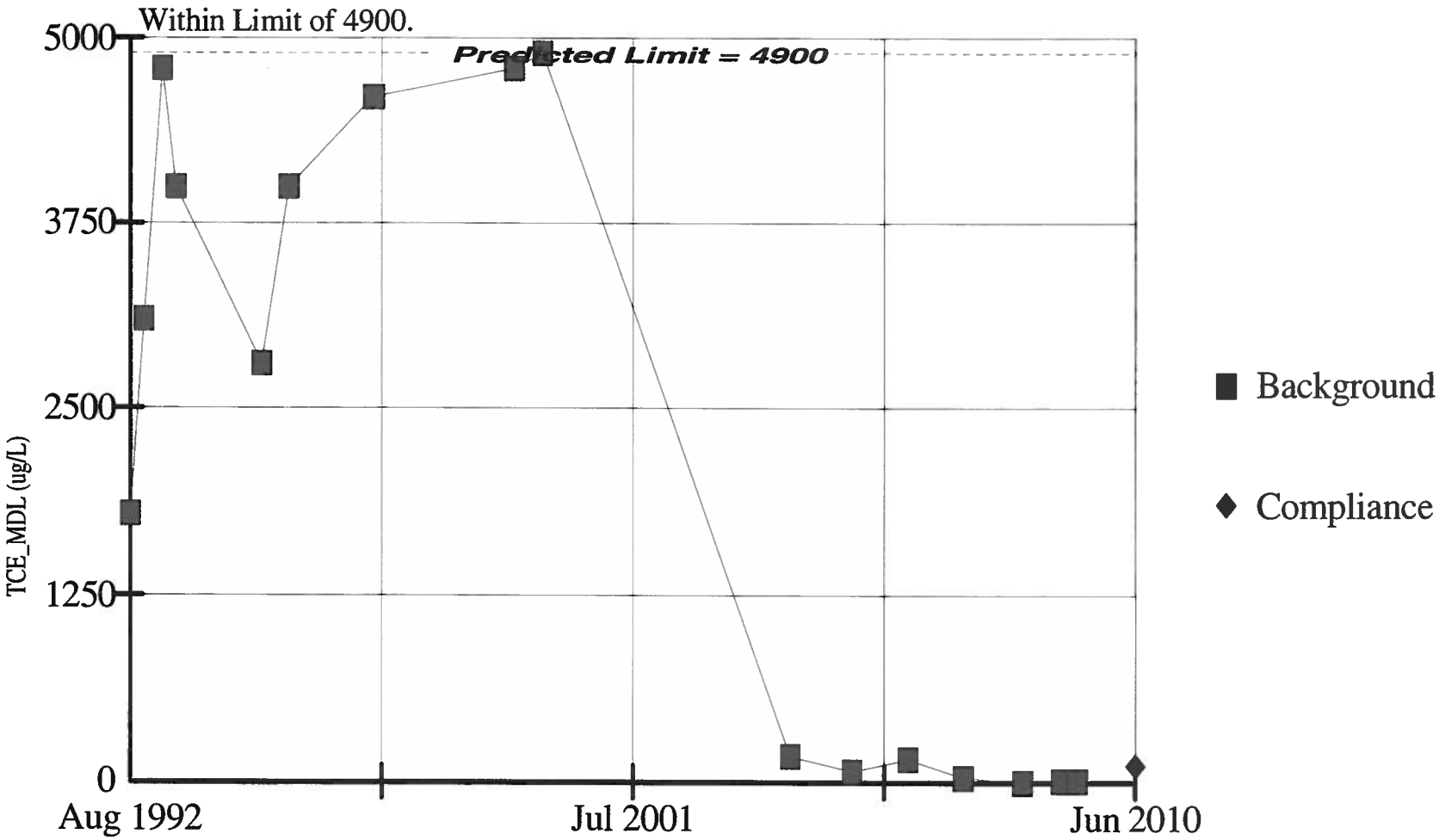
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -49.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:46 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-040B

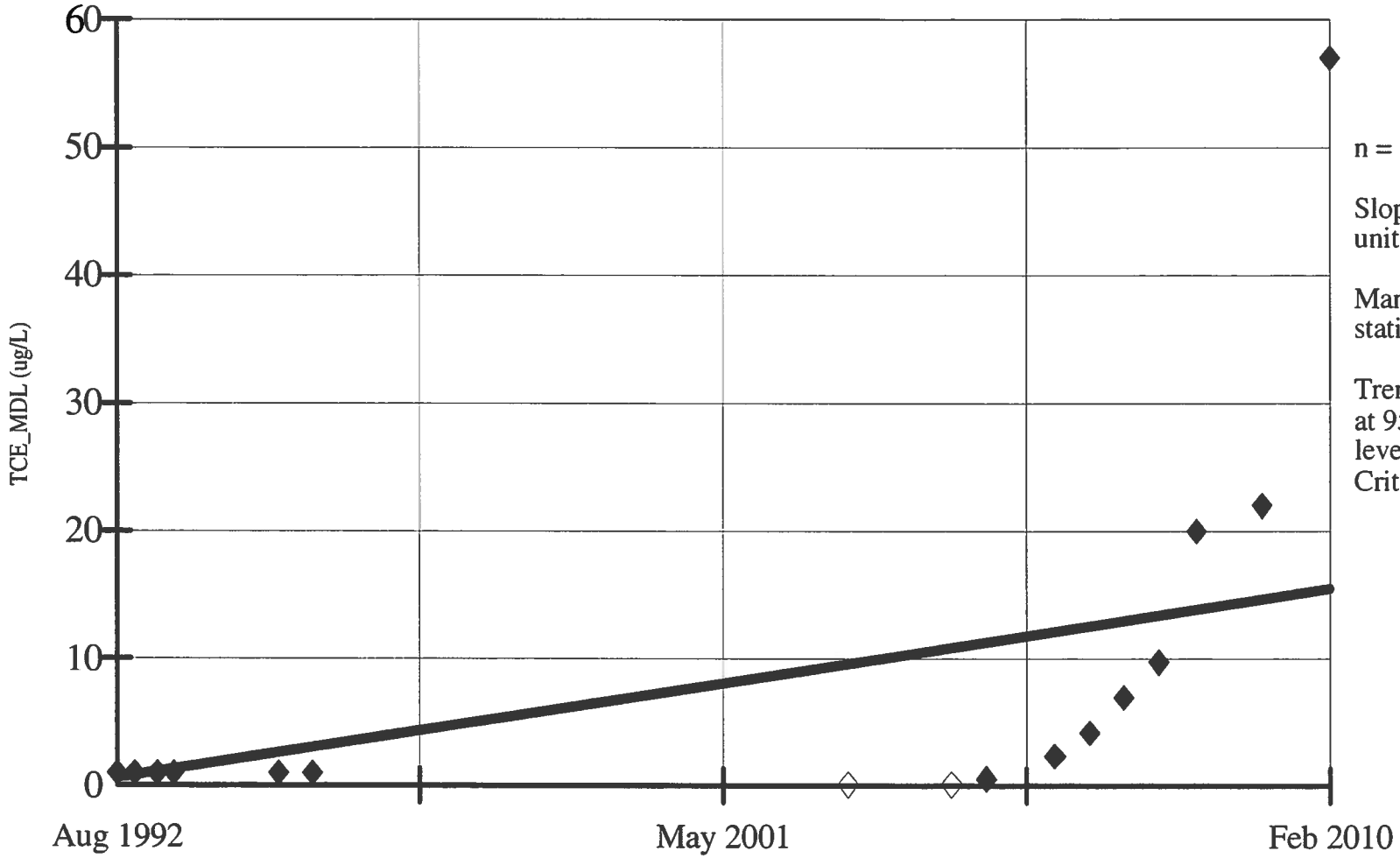


16 background obs. Testwise alpha = 0.05882.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit after ladder of powers failed to adequately normalize data.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:19 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-042A



n = 16.

Slope = 0.847 units per year.

Mann Kendall statistic = 68.

Trend significant at 95% confidence level (two tailed). Critical value = 45.

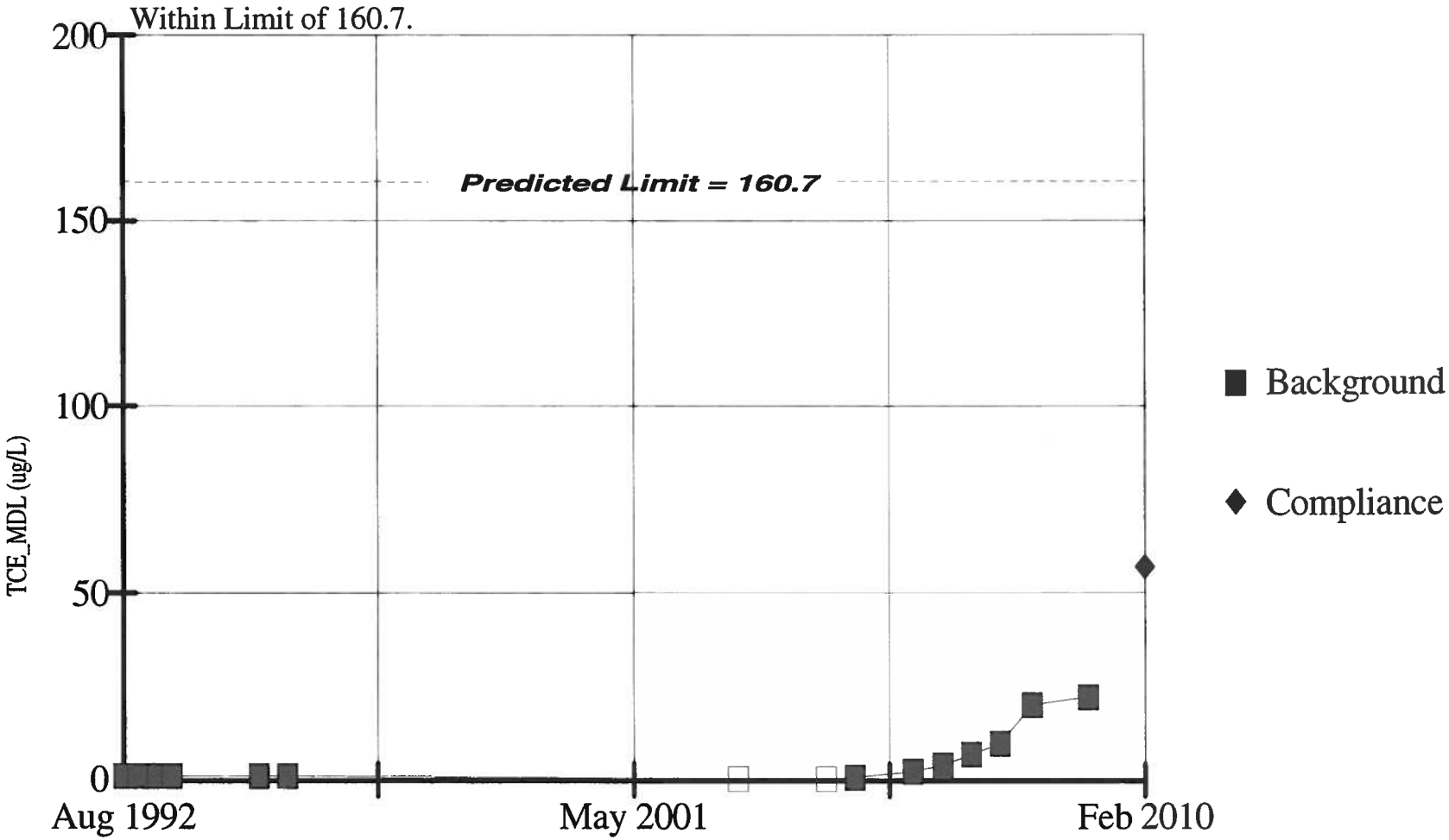
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:47 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-042A

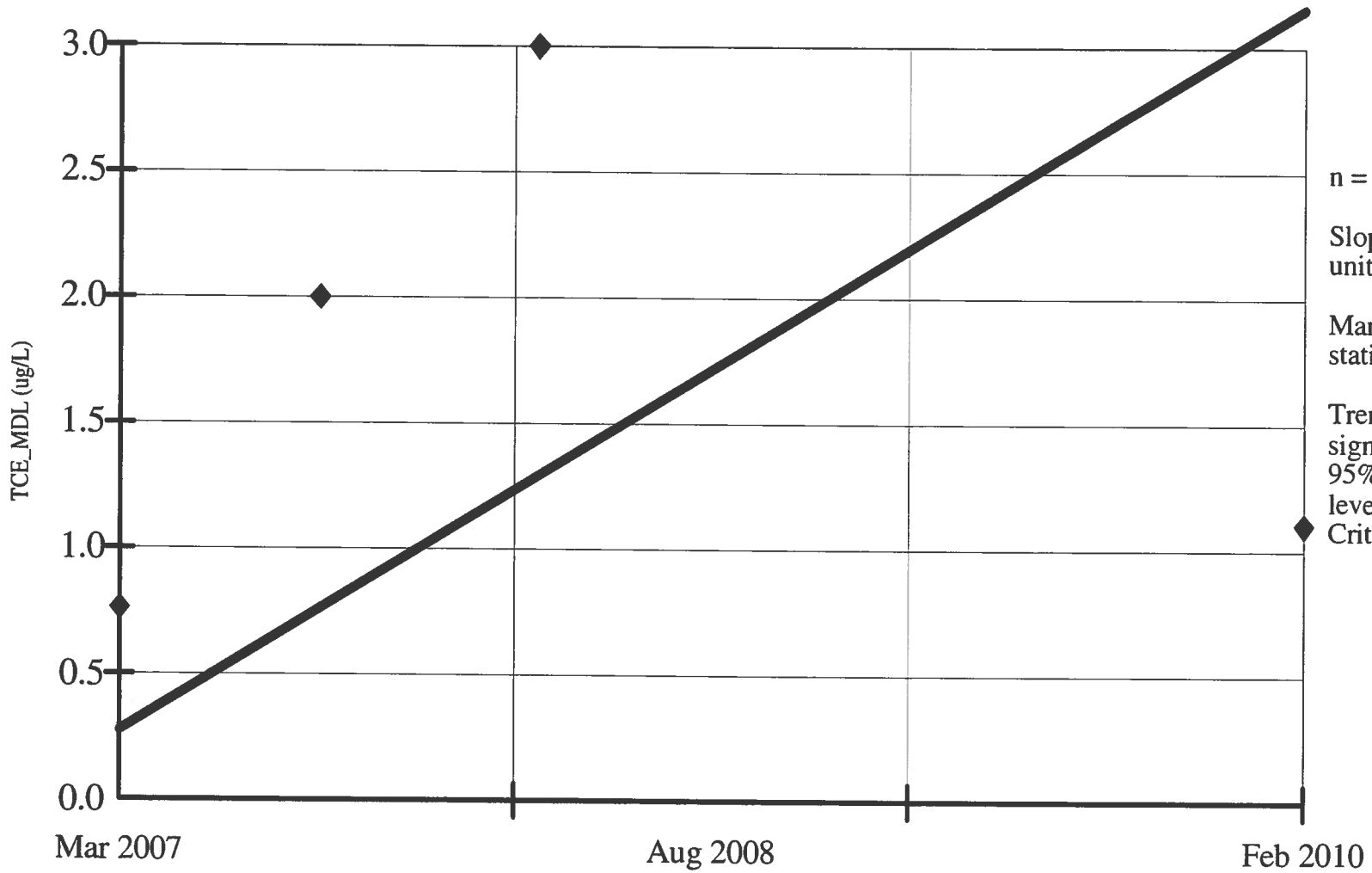


Background Data Summary: (based on ln(x) transformed data) Mean=0.452, Std. Dev=1.707, 13.33% nds, 15 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9158, W Quantile = 0.881 at alpha = 0.05. Testwise alpha = 0.01 Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:19 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-042D



n = 4.

Slope = 0.965 units per year.

Mann Kendall statistic = 2.

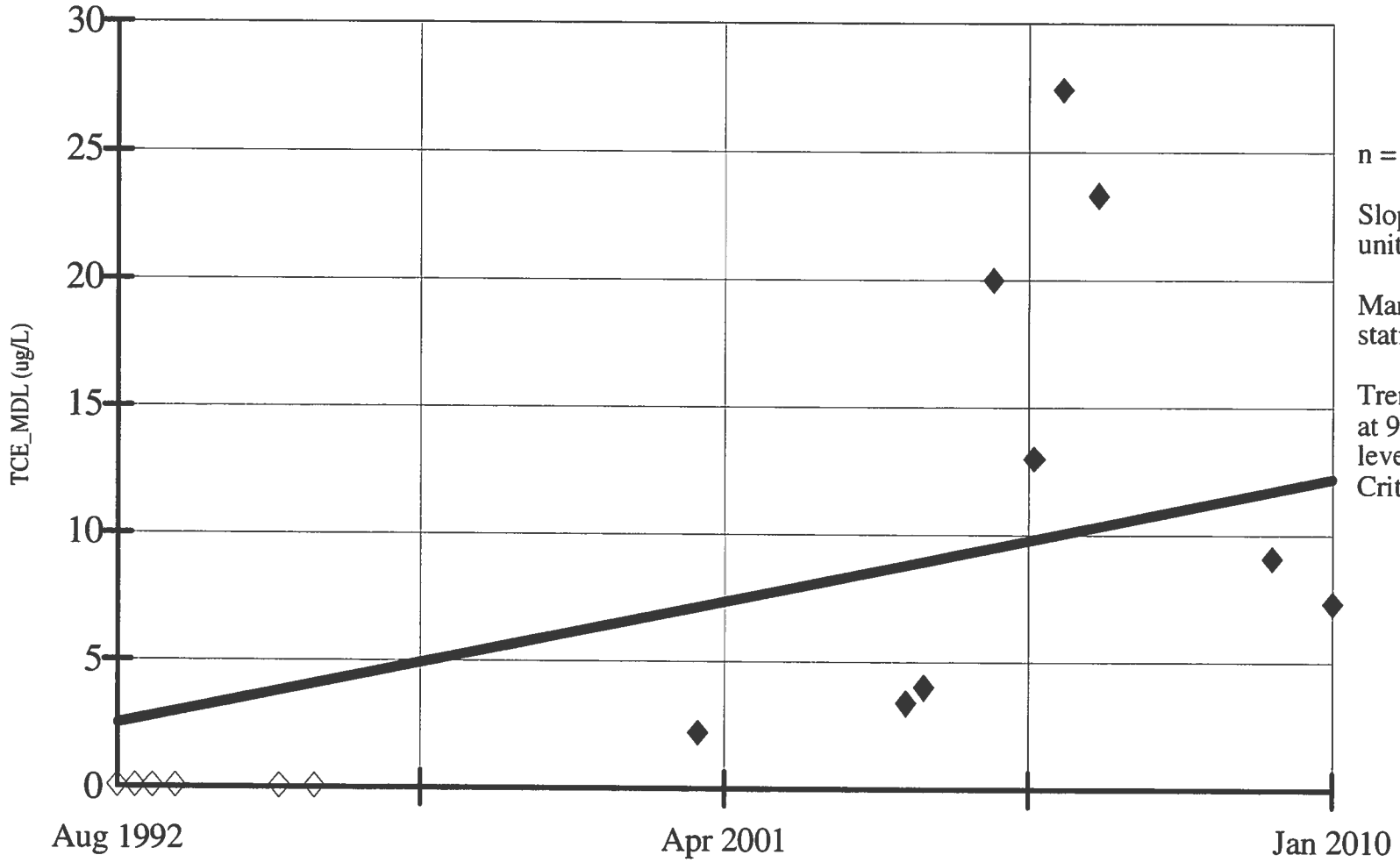
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:47 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-043A



n = 15.

Slope = 0.552 units per year.

Mann Kendall statistic = 68.

Trend significant at 95% confidence level (two tailed). Critical value = 41.

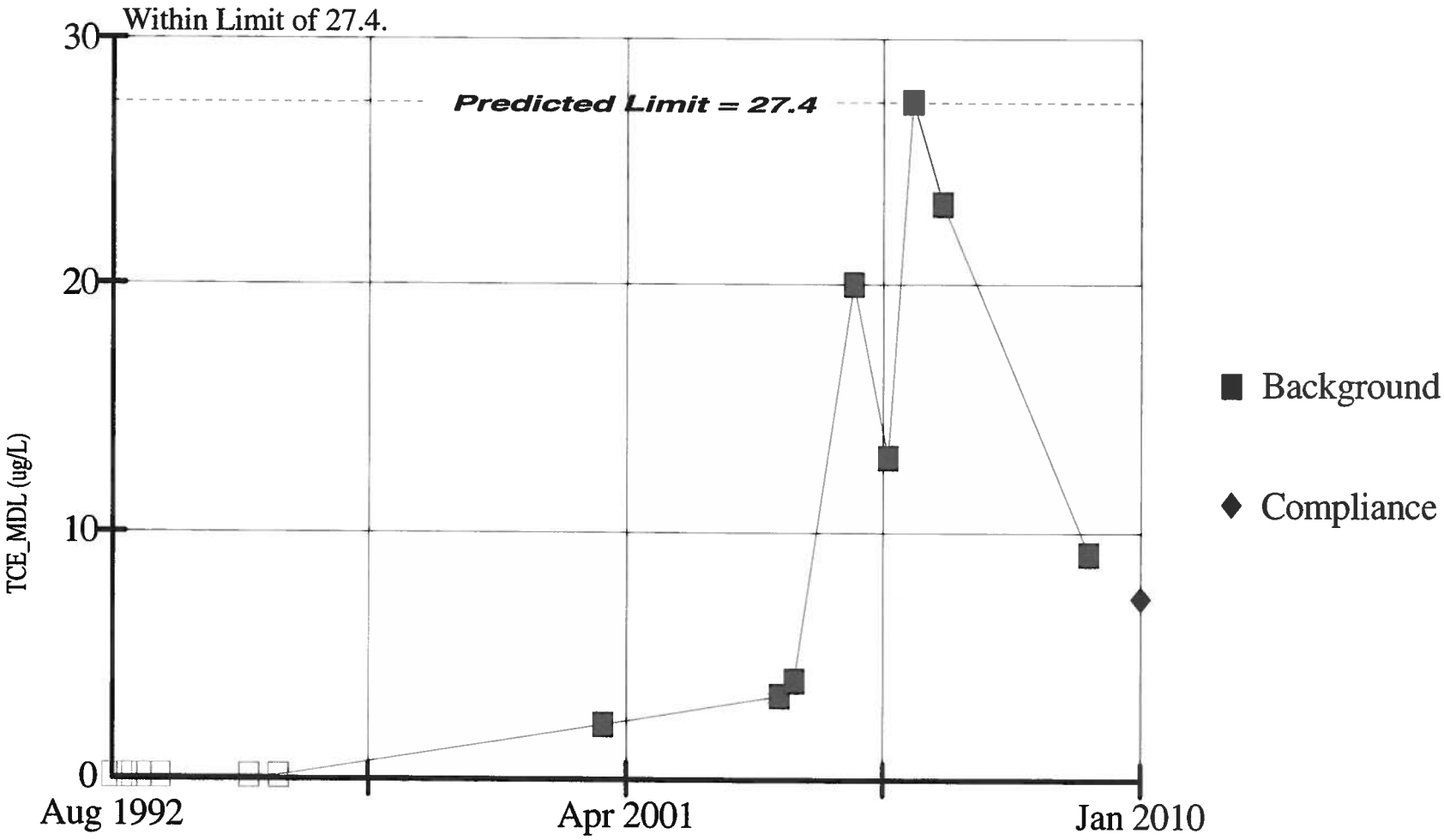
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:47 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-043A



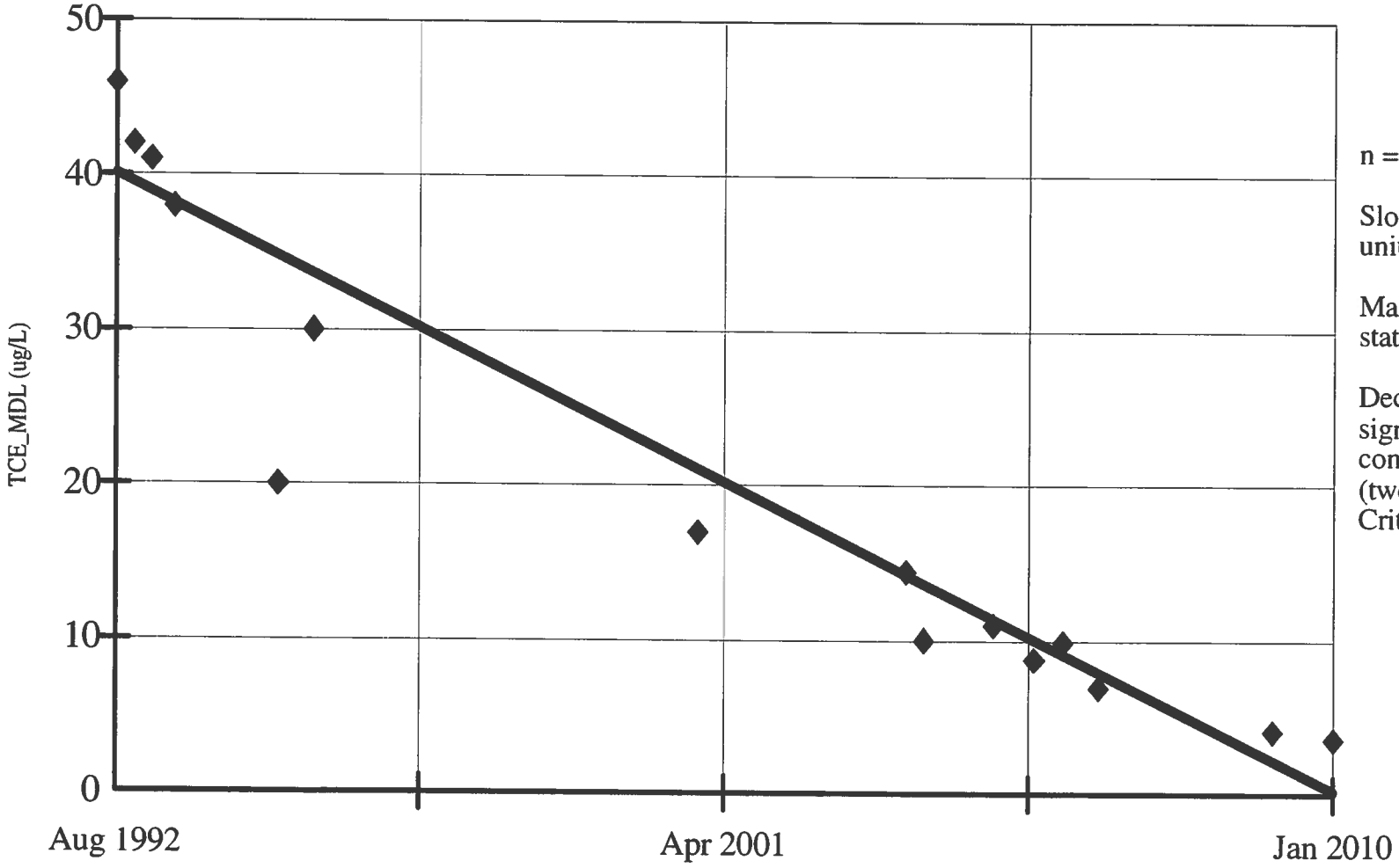
14 background obs. Testwise alpha = 0.06667 Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit after ladder of powers failed to adequately normalize data.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:19 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-043B



n = 15.

Slope = -2.284 units per year.

Mann Kendall statistic = -99.

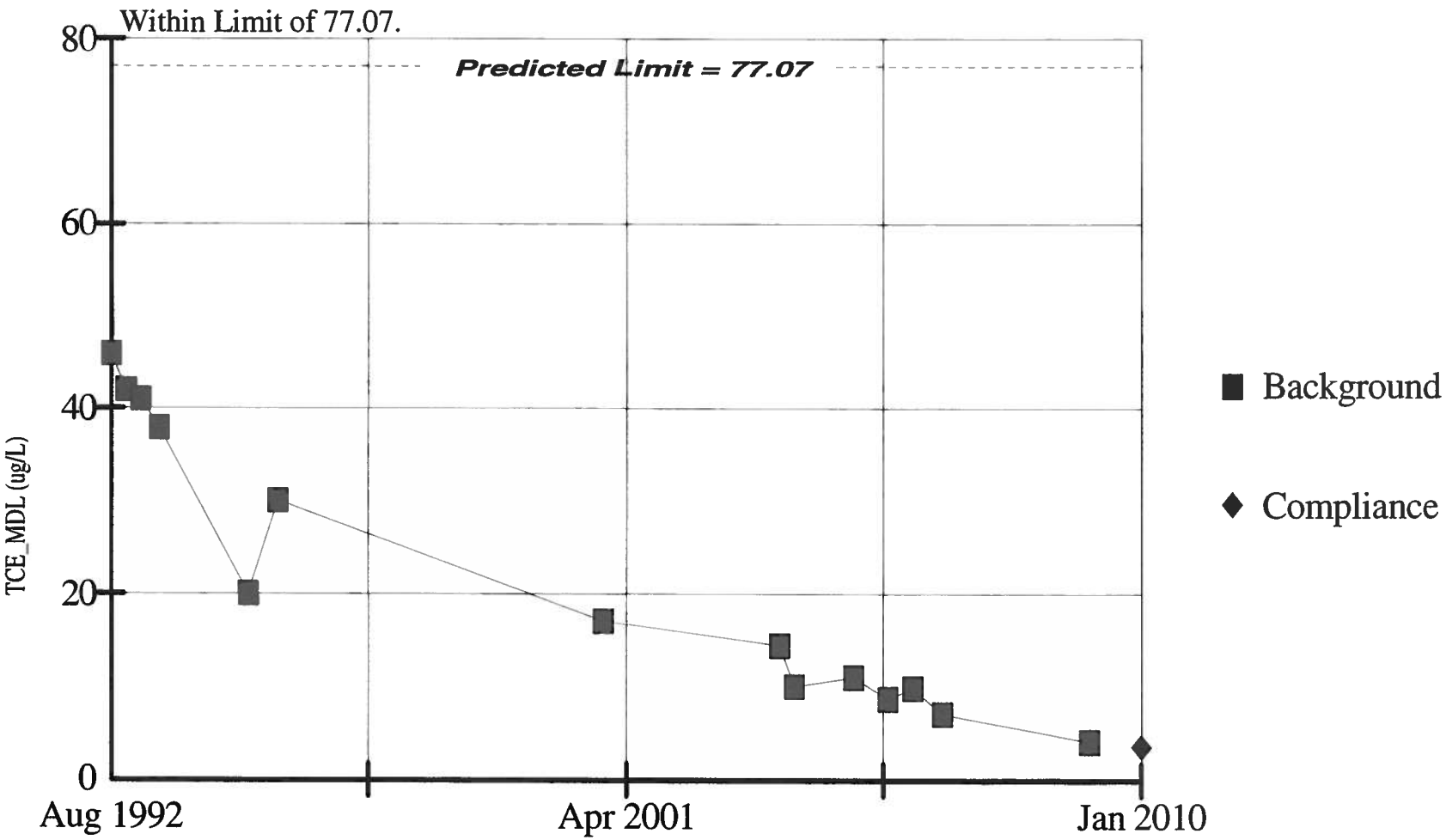
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -41.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:47 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-043B



Background Data Summary: (based on square root(x) transformed data) Mean=4.352, Std. Dev=1.614, 0% nds, 14 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.909, W Quantile = 0.874 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)

Date: 1/28/11, 1:19 PM

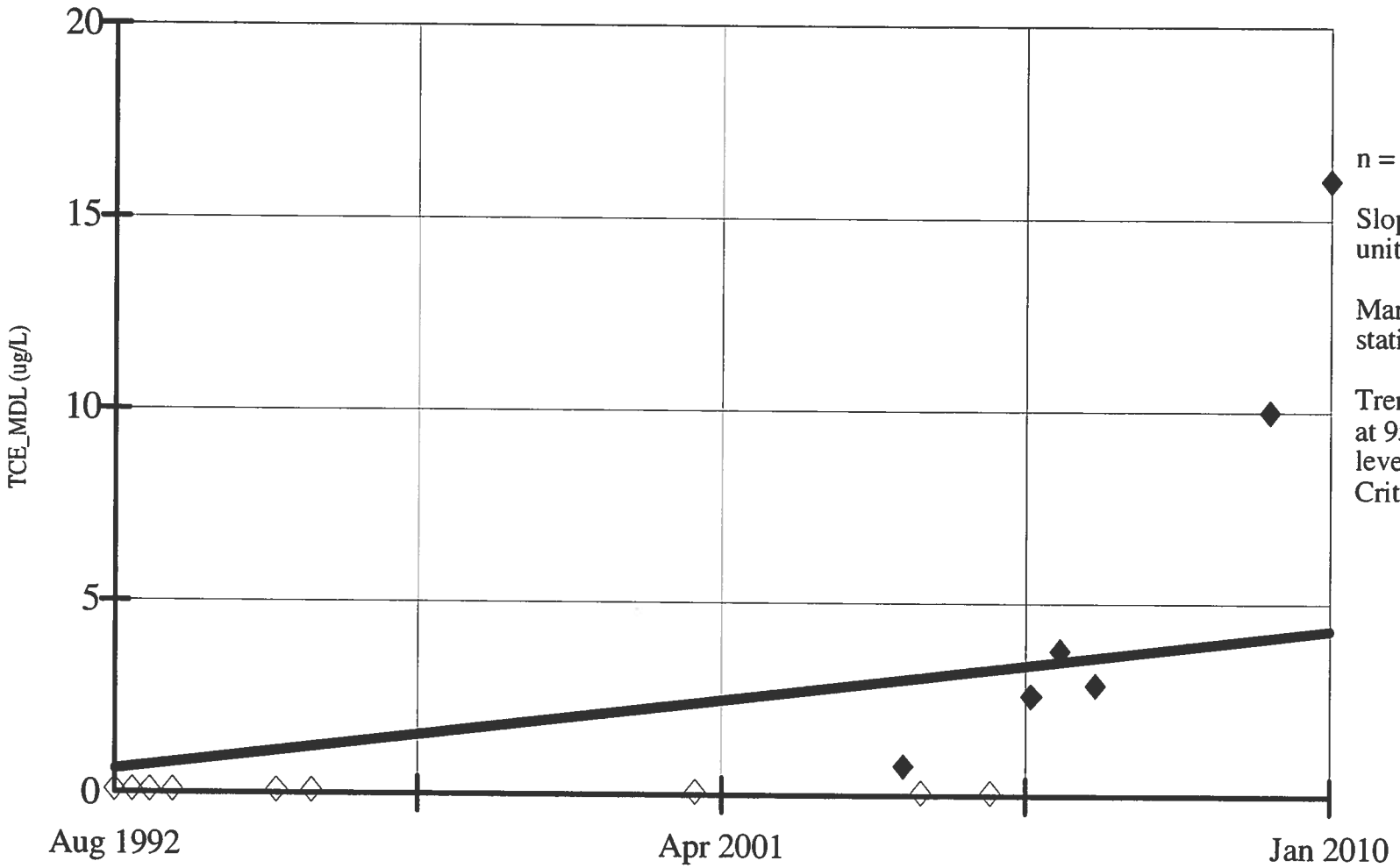
Facility: Mead FNOP

Client: ECC

Data File: Mead 2010 Annual Sanitas 2

View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-043D



n = 15.

Slope = 0.211 units per year.

Mann Kendall statistic = 63.

Trend significant at 95% confidence level (two tailed). Critical value = 41.

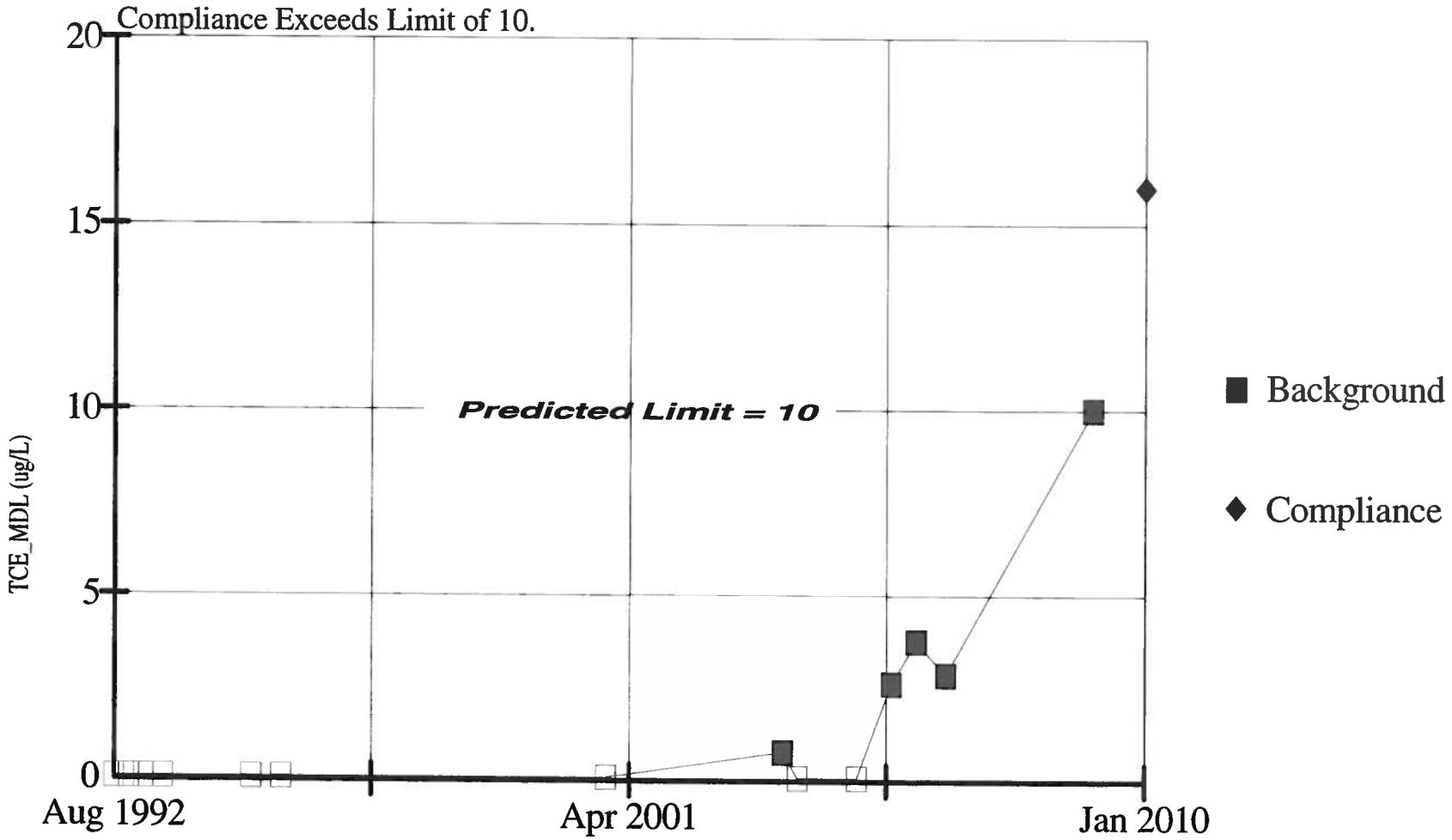
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:47 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-043D



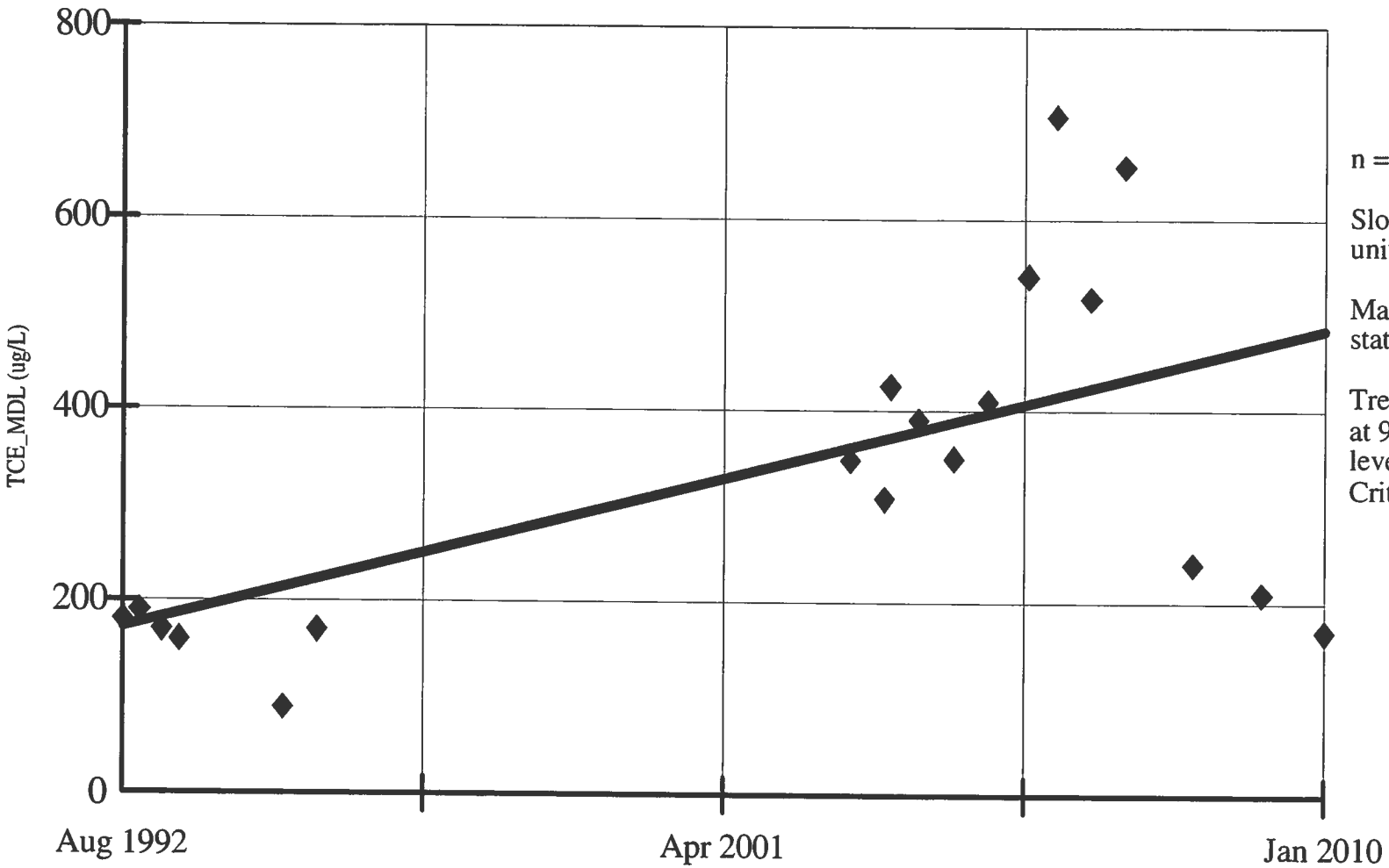
14 background obs. Testwise alpha = 0.06667 Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit because non-detects (64.29%) were in excess of 50% of the data.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:19 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-044A



n = 19.

Slope = 17.79 units per year.

Mann Kendall statistic = 60.

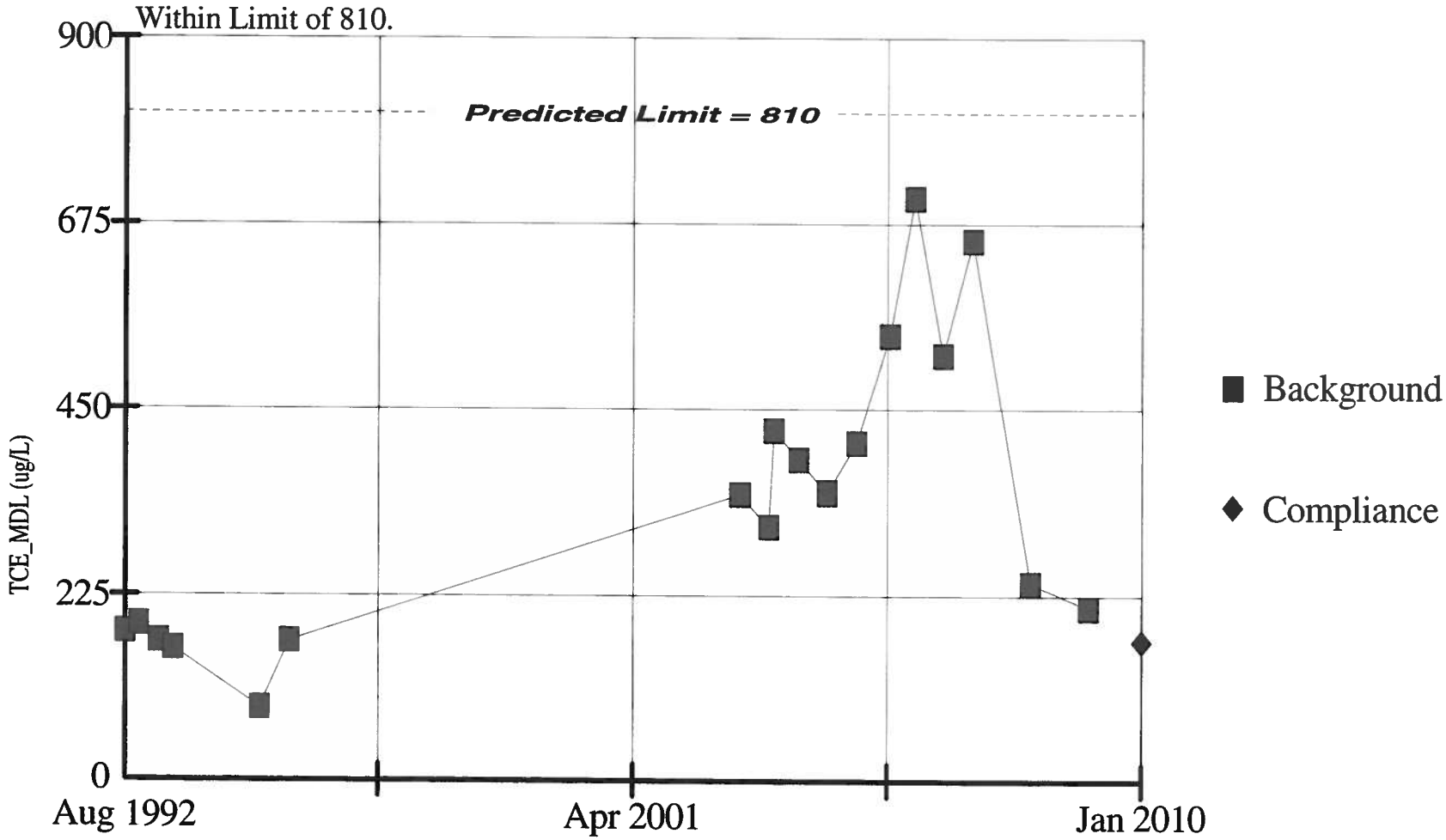
Trend significant at 95% confidence level (two tailed). Critical value = 58.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:47 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-044A



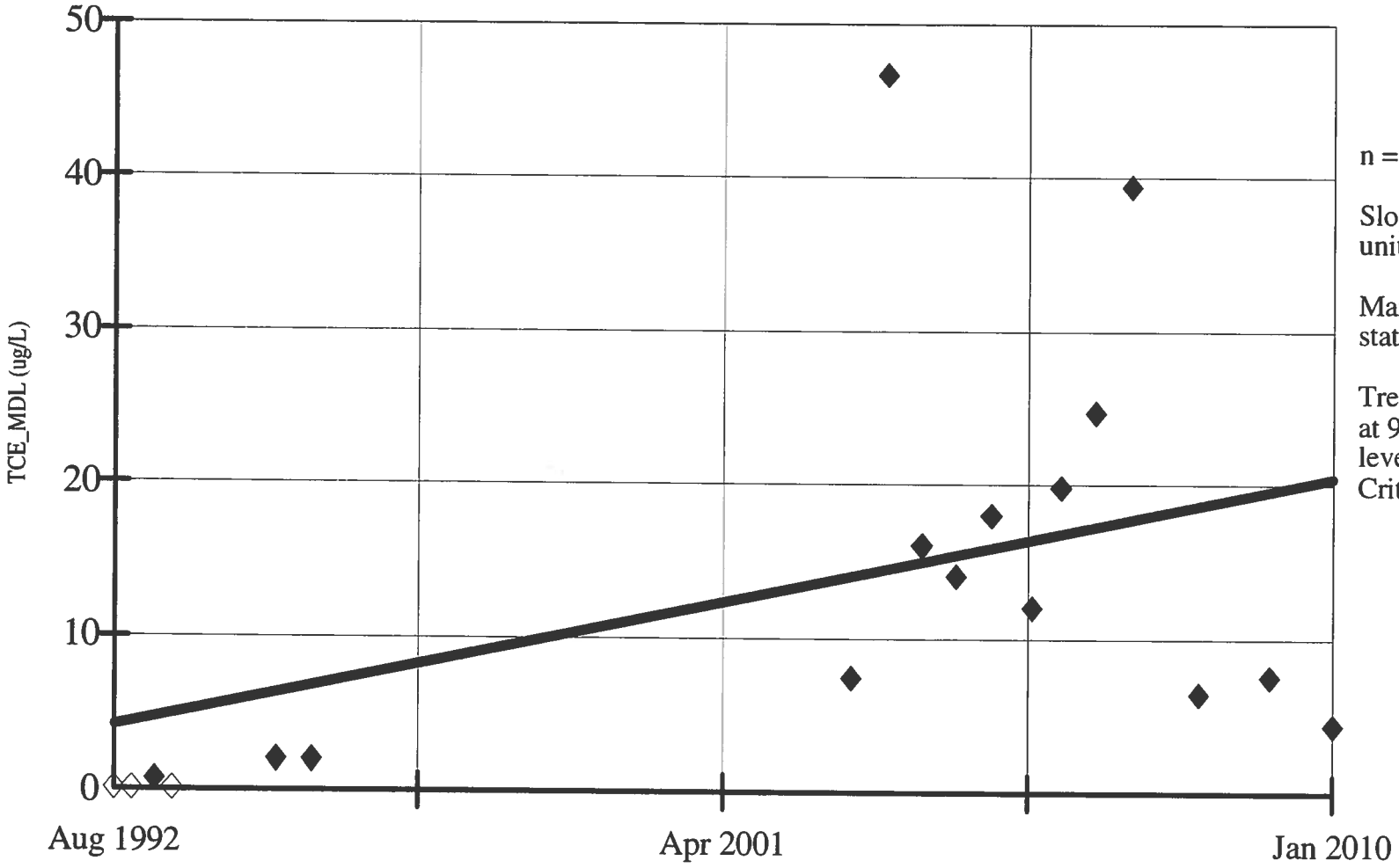
Background Data Summary: Mean=336.5, Std. Dev=179.6, 0% nds, 18 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9292, W Quantile = 0.897 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:19 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-044B



n = 18.

Slope = 0.922 units per year.

Mann Kendall statistic = 69.

Trend significant at 95% confidence level (two tailed). Critical value = 53.

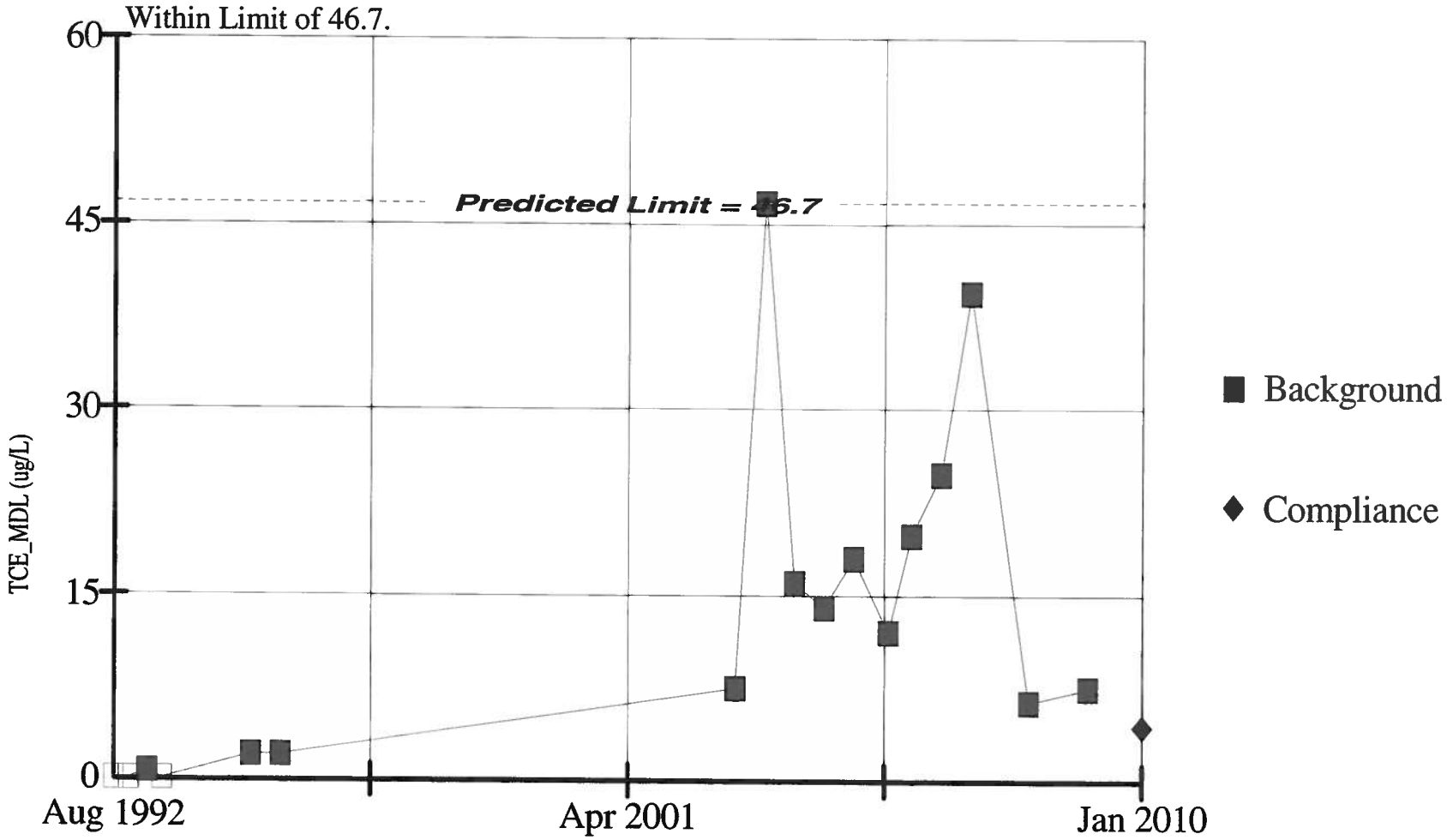
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:47 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-044B



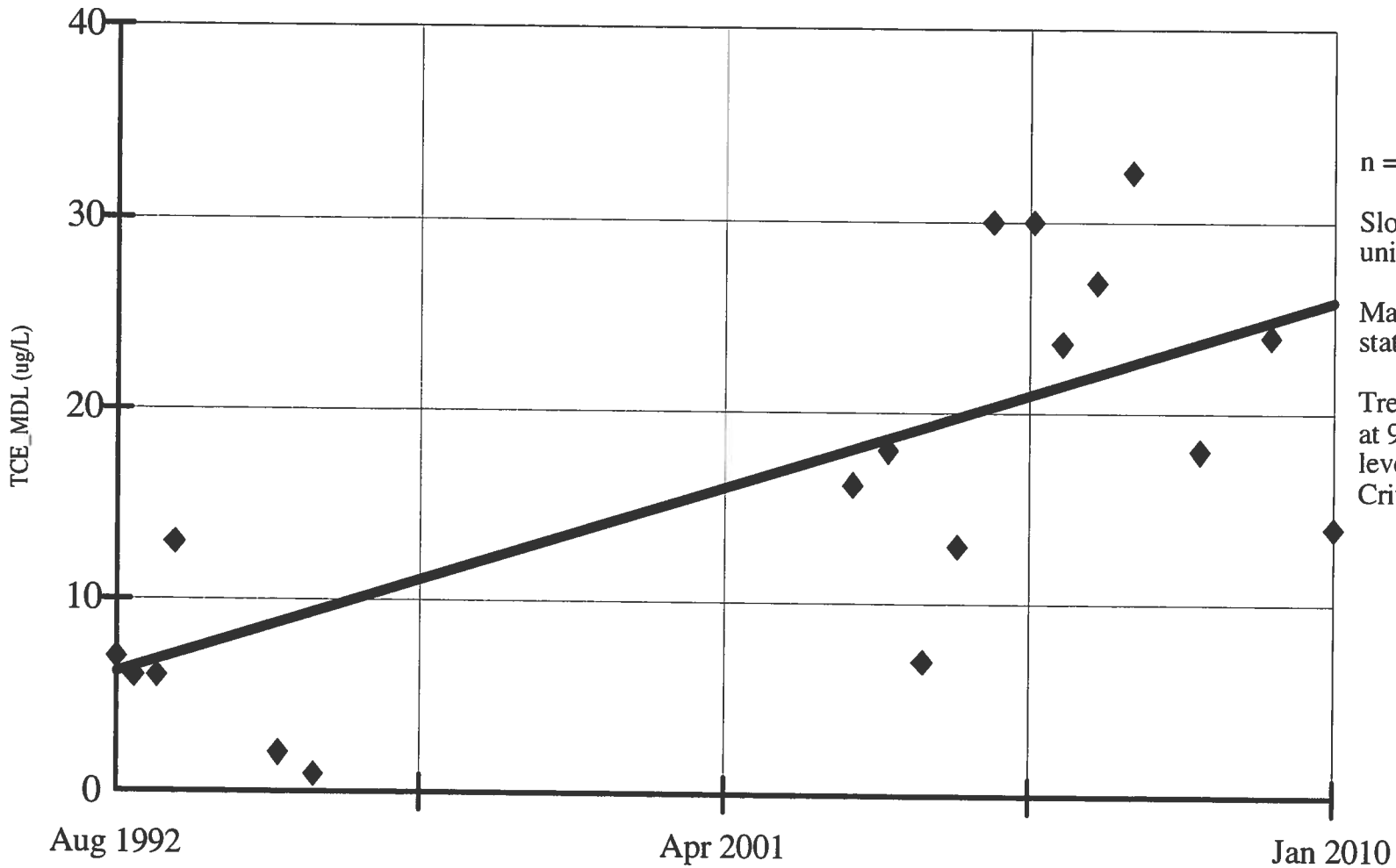
17 background obs. Testwise alpha = 0.05556 Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit because required power transformation and adjustment for non-detects are incompatible. NDs = 17.65%.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:20 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-044D



n = 18.

Slope = 1.124 units per year.

Mann Kendall statistic = 72.

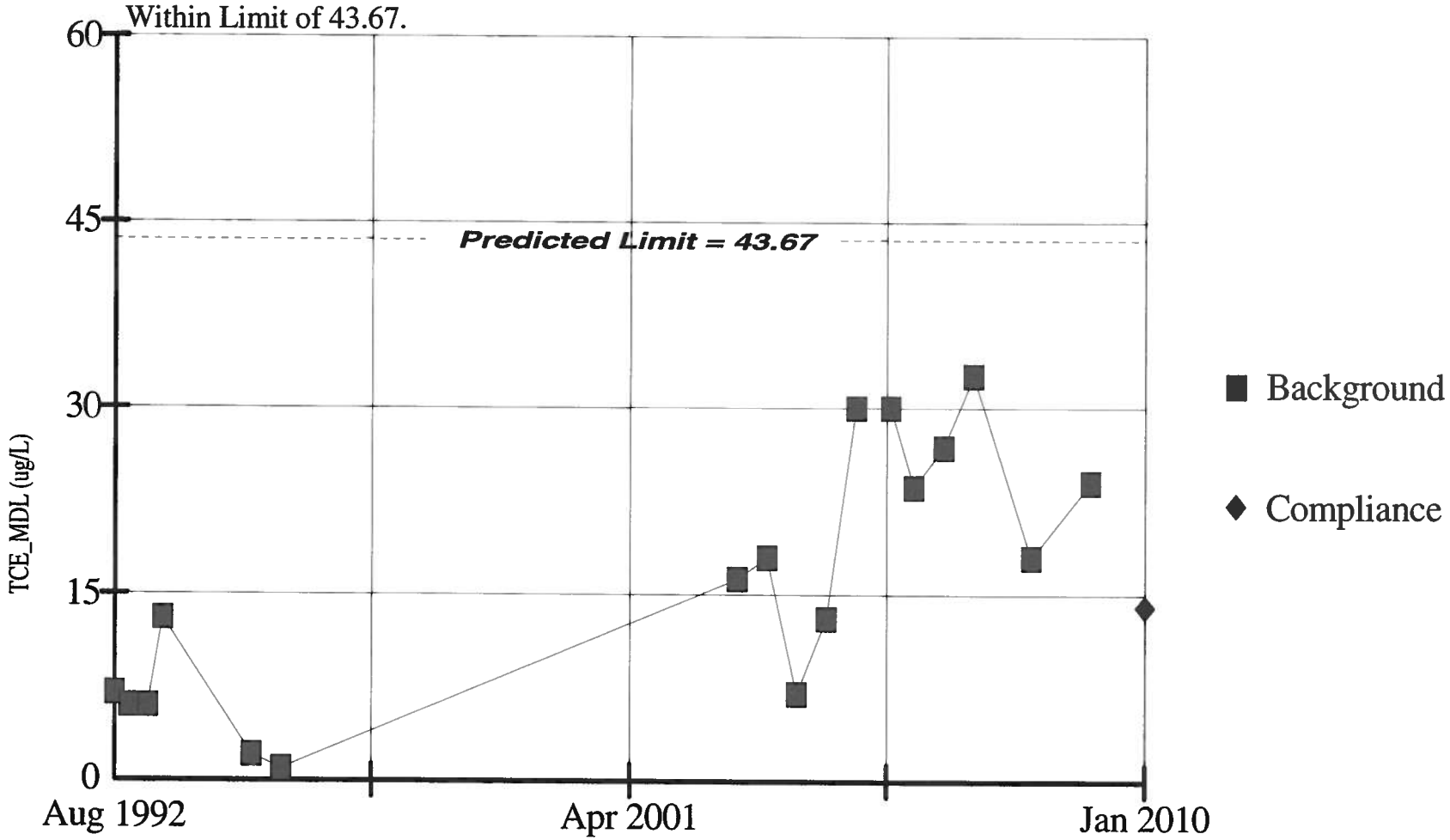
Trend significant at 95% confidence level (two tailed). Critical value = 53.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:47 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-044D



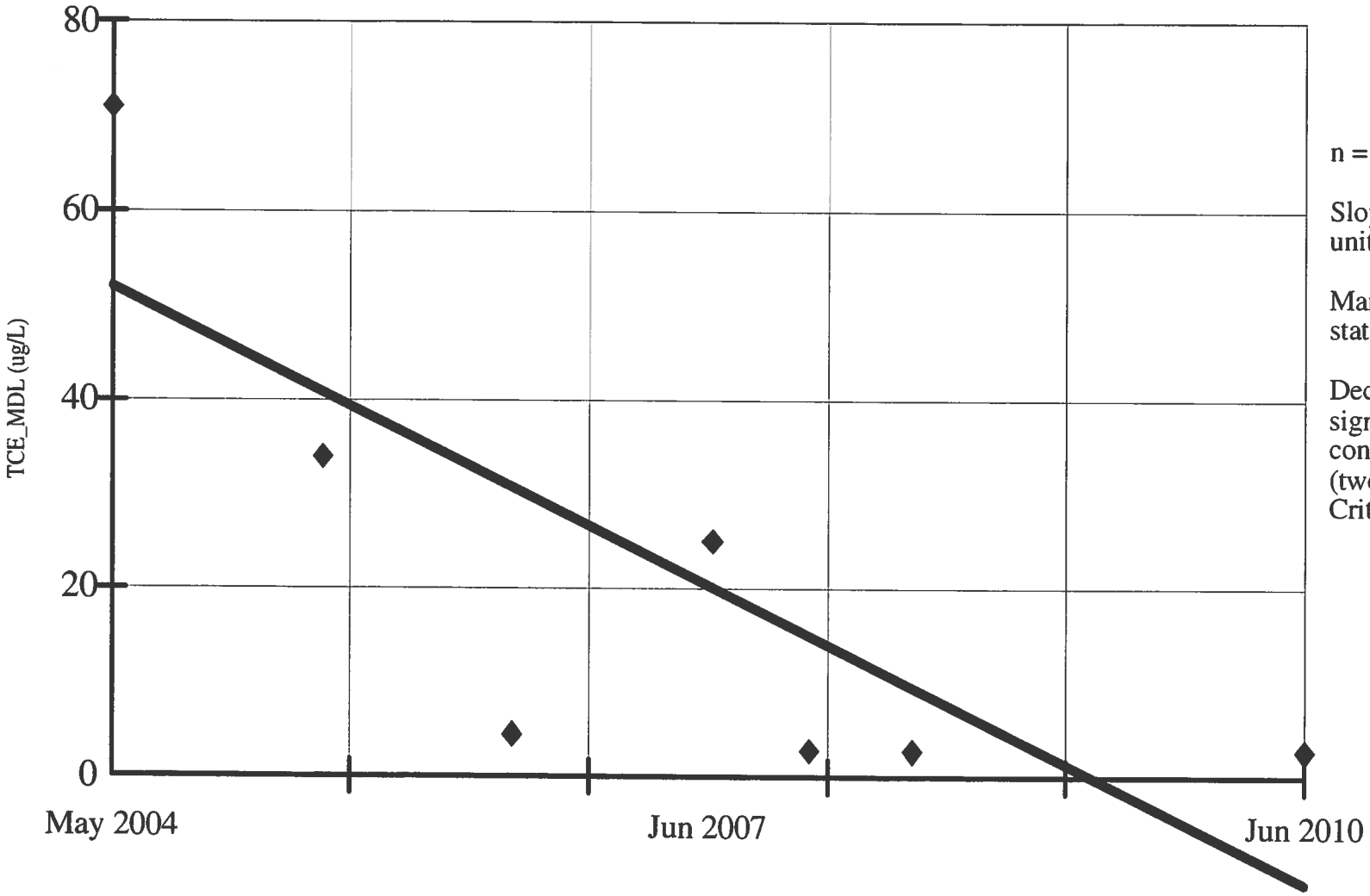
Background Data Summary: Mean=16.12, Std. Dev=10.36, 0% nds, 17 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9369, W Quantile = 0.892 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:20 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-072A



n = 7.

Slope = -10.443 units per year.

Mann Kendall statistic = -18.

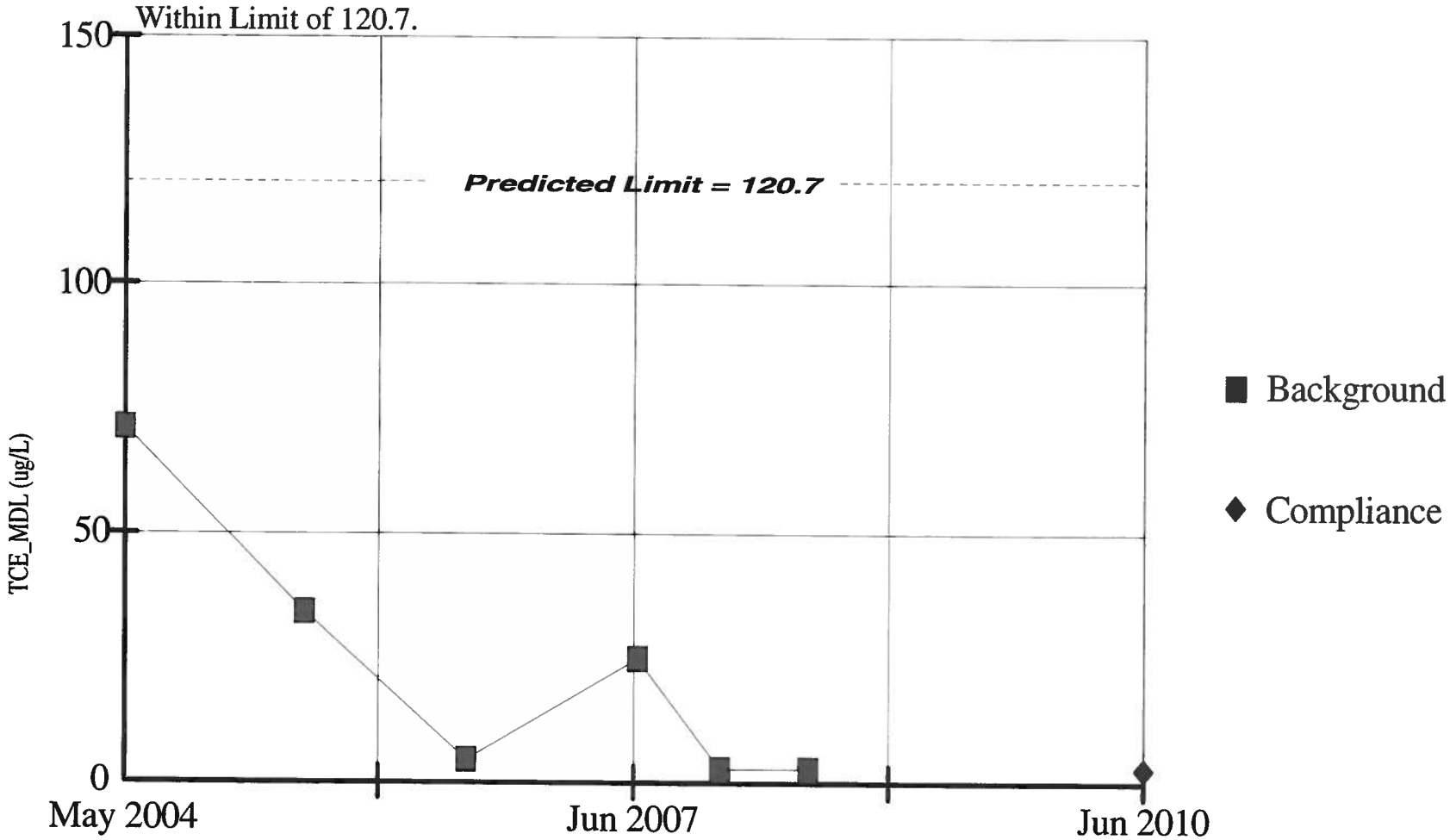
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:48 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-072A



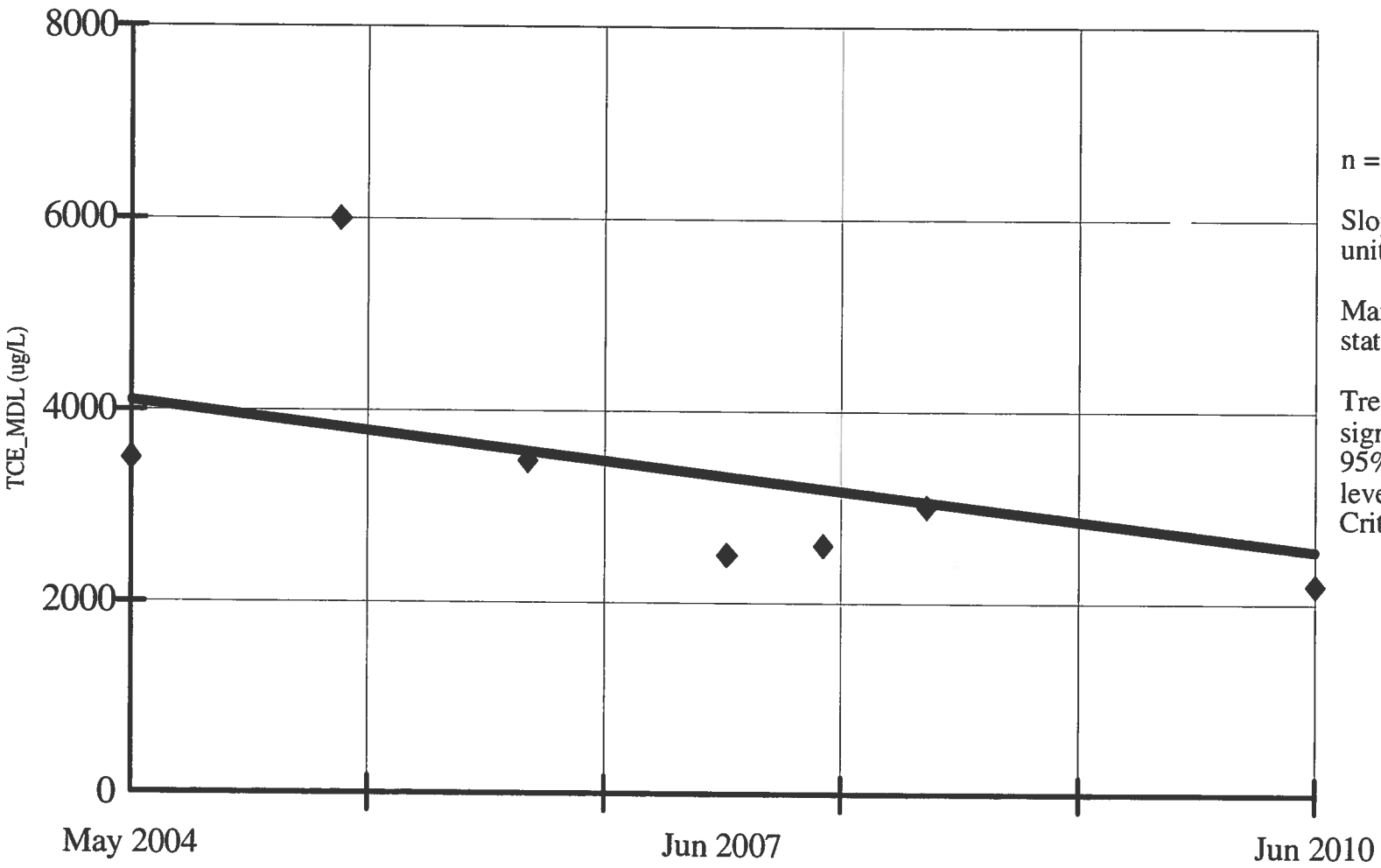
Background Data Summary: Mean=23.33, Std. Dev=26.8, 0% nds, 6 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8262, W Quantile = 0.788 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:20 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-072B



n = 7.

Slope = -253.675 units per year.

Mann Kendall statistic = -13.

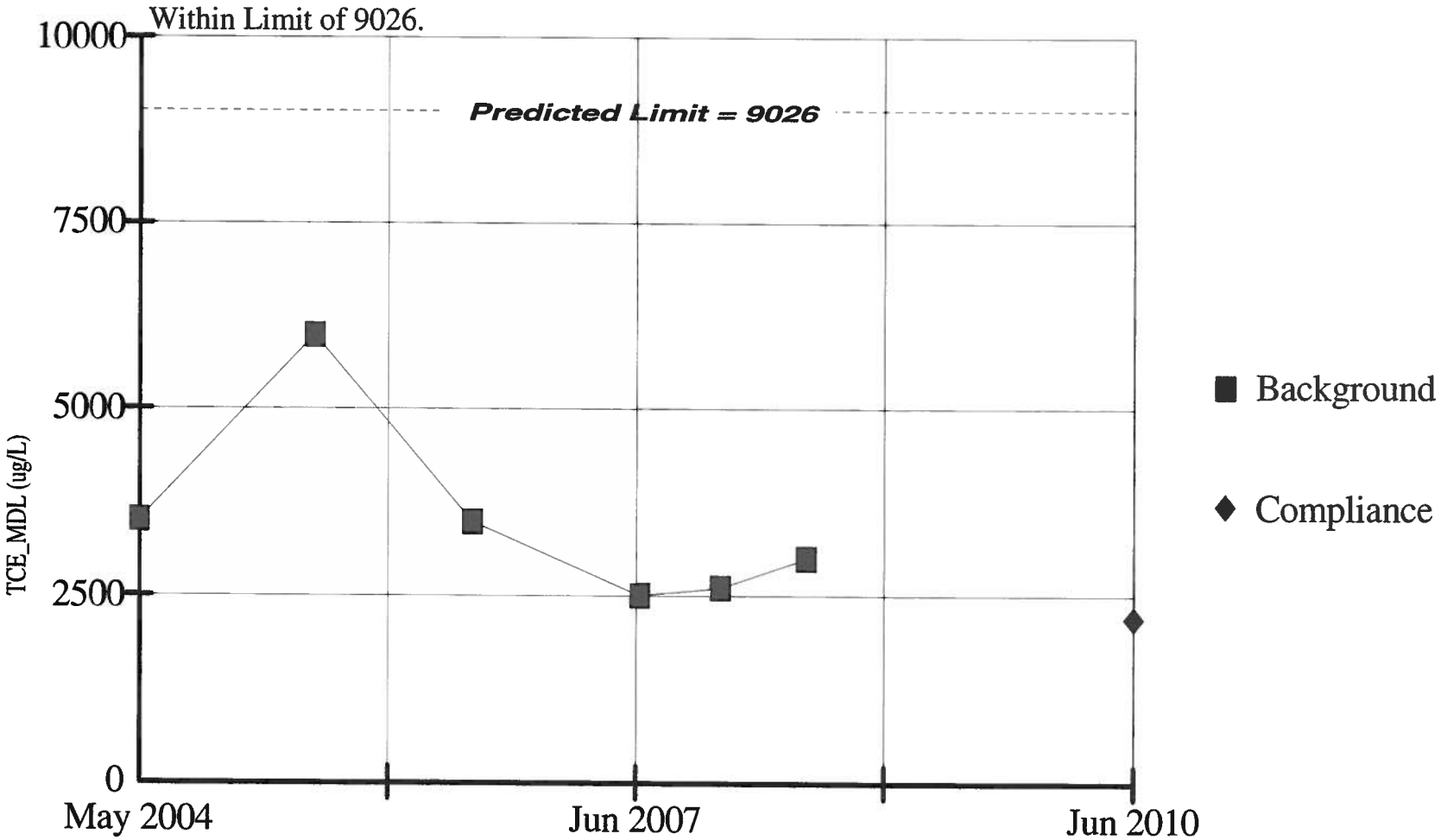
Trend not significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:48 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-072B



Background Data Summary: (based on square root(x) transformed data) Mean=58.56, Std. Dev=10.03, 0% nds, 6 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8215, W Quantile = 0.788 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)

Date: 1/28/11, 1:20 PM

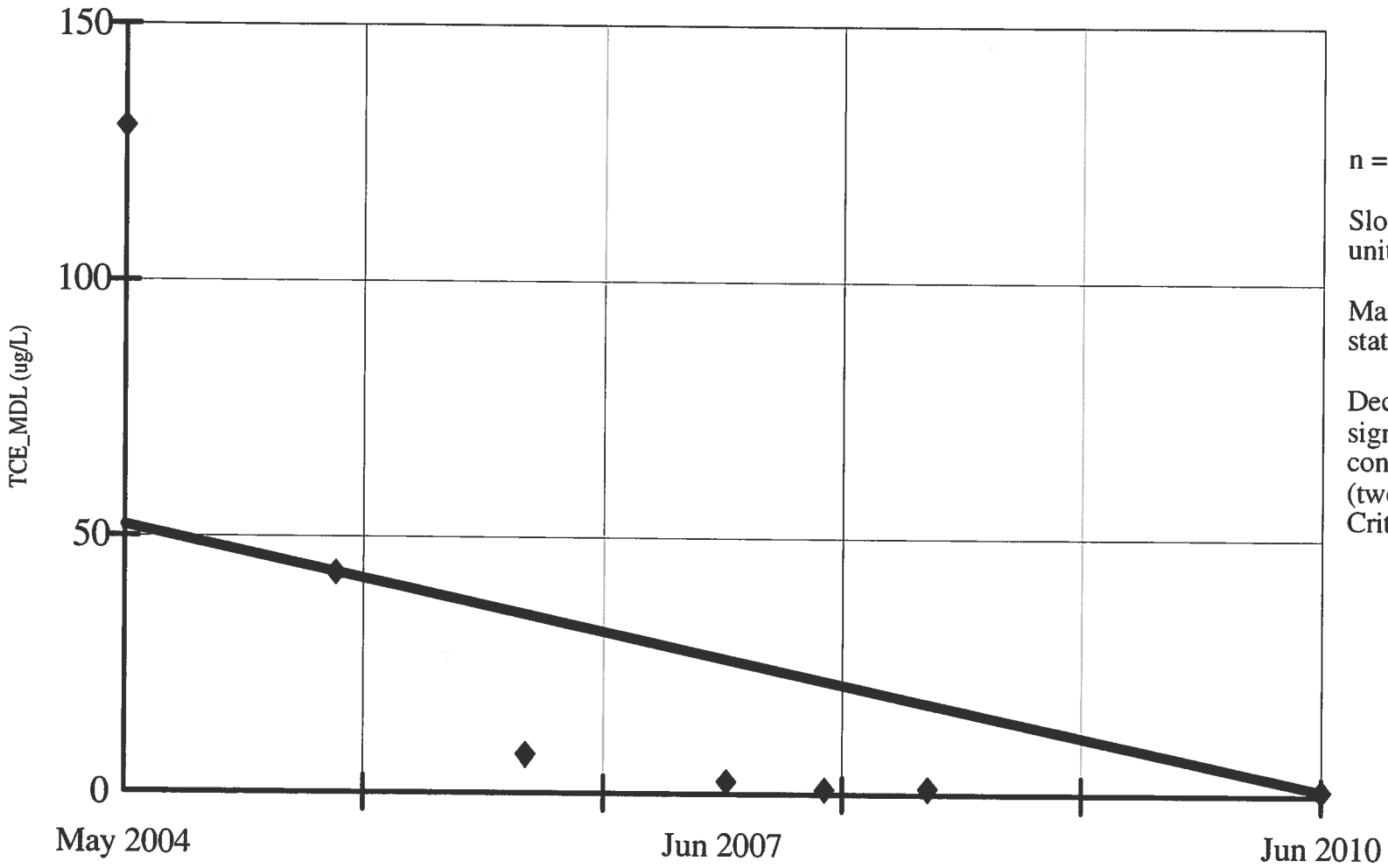
Facility: Mead FNOP

Client: ECC

Data File: Mead 2010 Annual Sanitas 2

View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-073A



n = 7.

Slope = -8.417 units per year.

Mann Kendall statistic = -17.

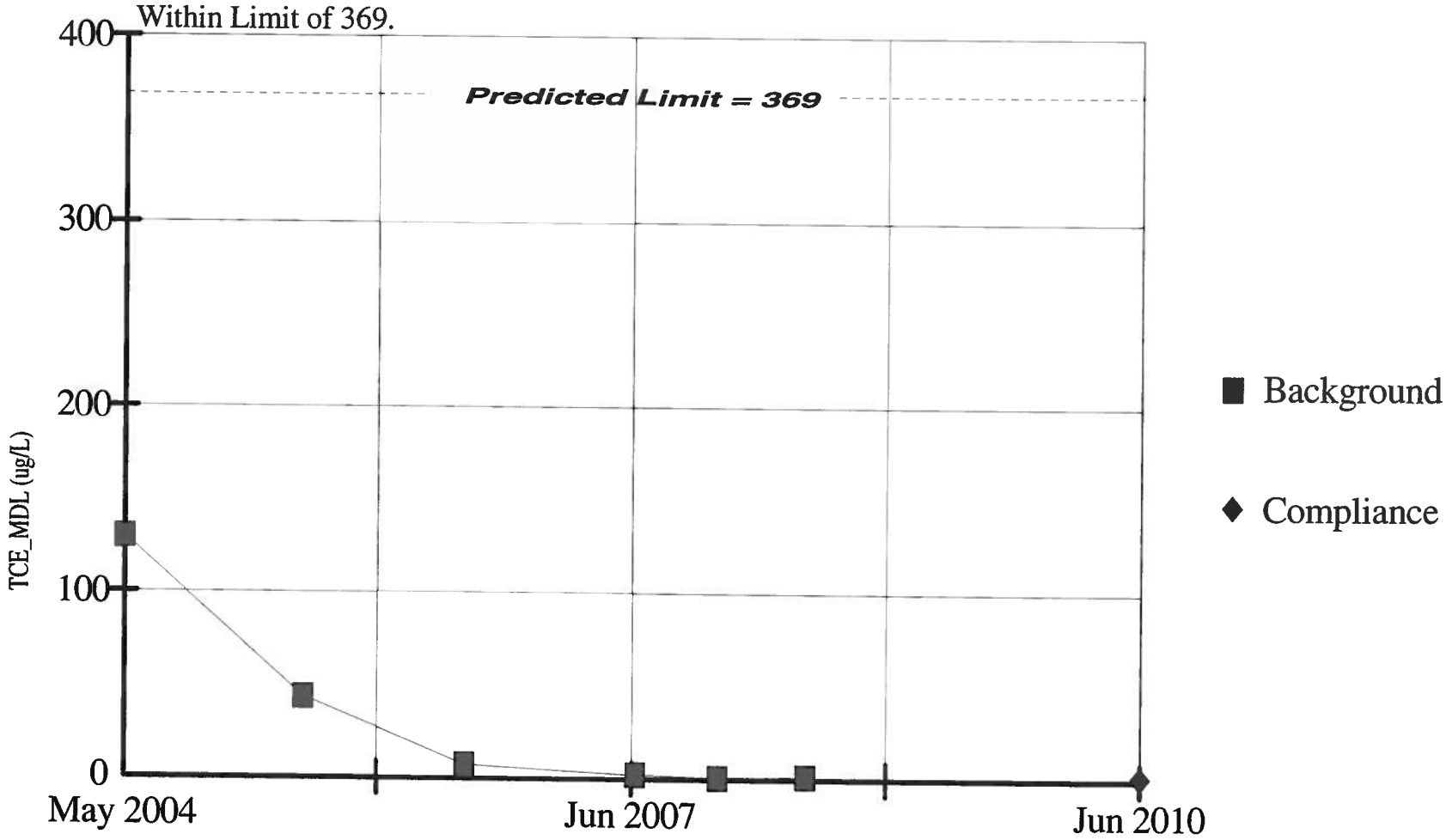
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:48 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-073A



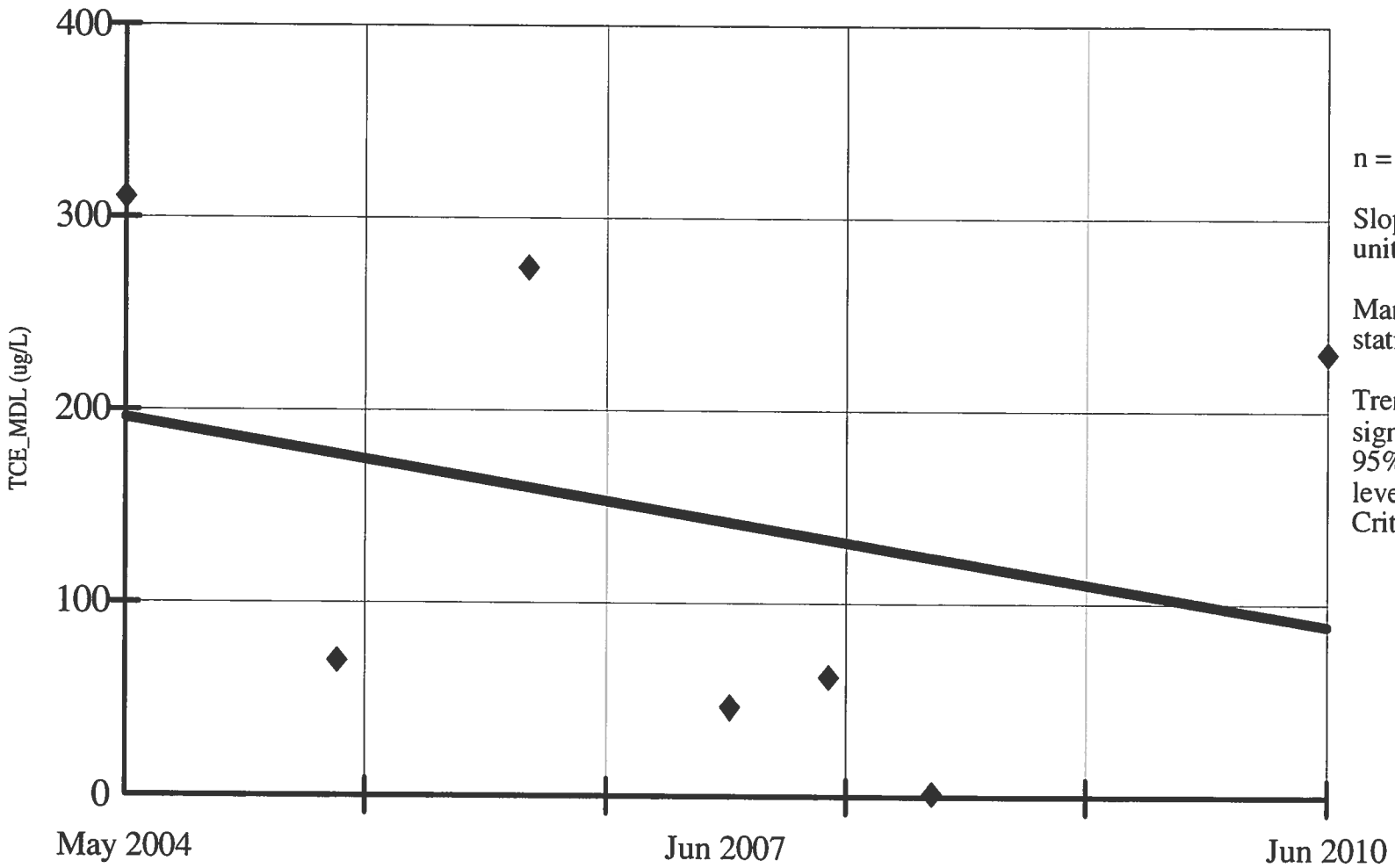
Background Data Summary: (based on square root(x) transformed data) Mean=4.034, Std. Dev=4.175, 0% nds, 6 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8088, W Quantile = 0.788 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-073B



n = 7.

Slope = -17.71 units per year.

Mann Kendall statistic = -9.

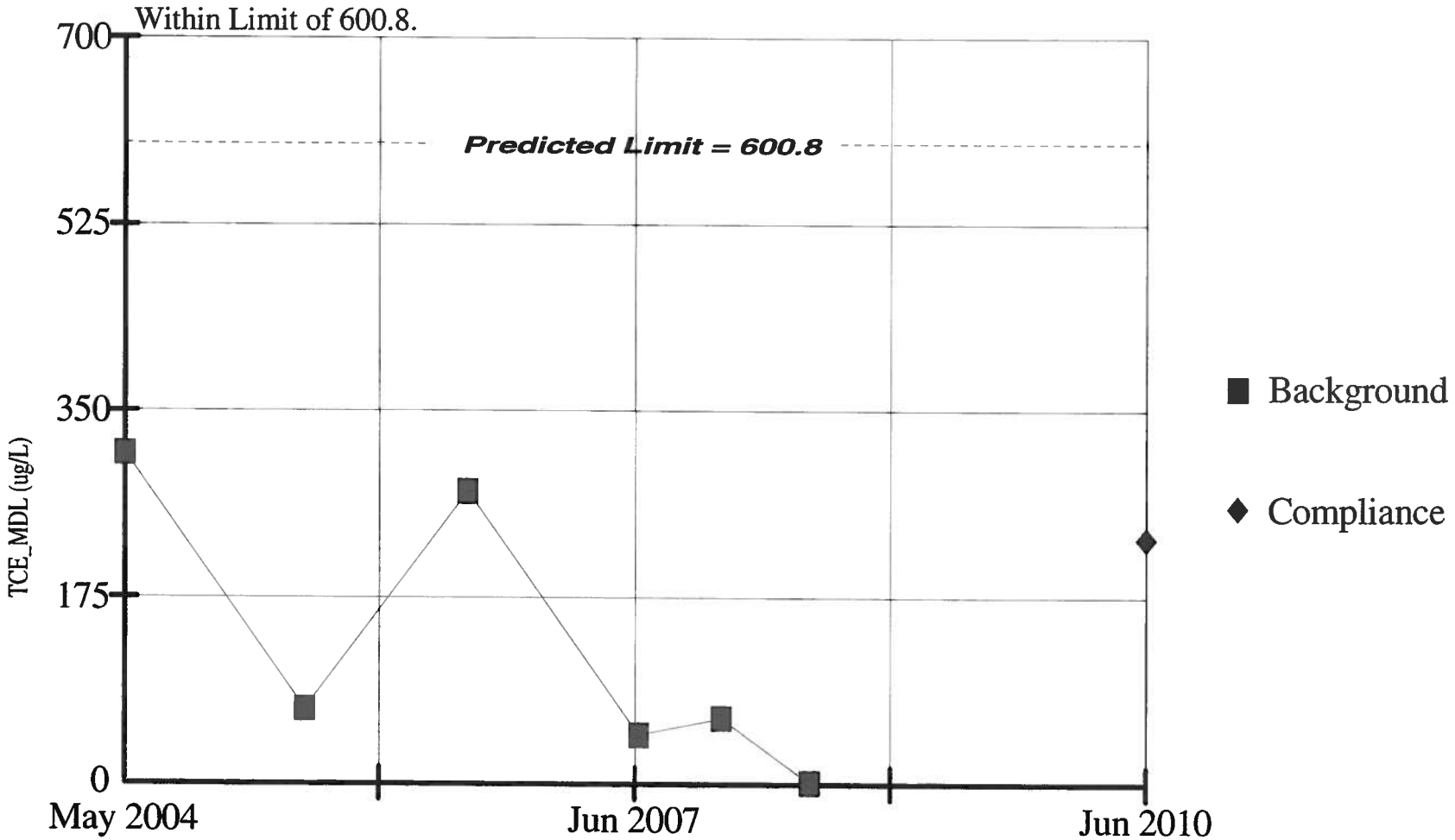
Trend not significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:48 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-073B



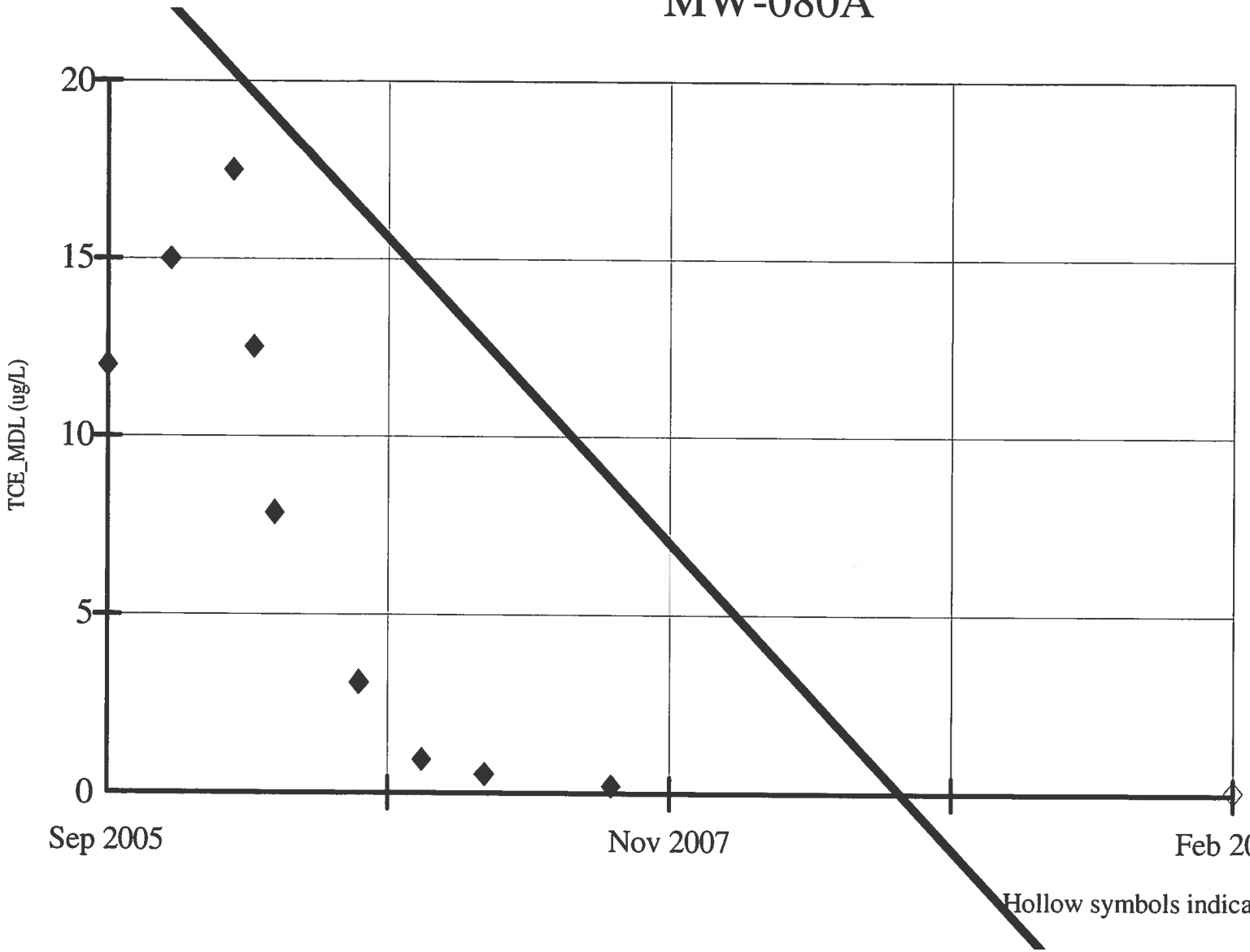
Background Data Summary: Mean=127.3, Std. Dev=130.3, 0% nds, 6 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8152, W Quantile = 0.788 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-080A



n = 10.

Slope = -7.676 units per year.

Mann Kendall statistic = -37.

Decreasing trend significant at 95% confidence level (two tailed). Critical value = -23.

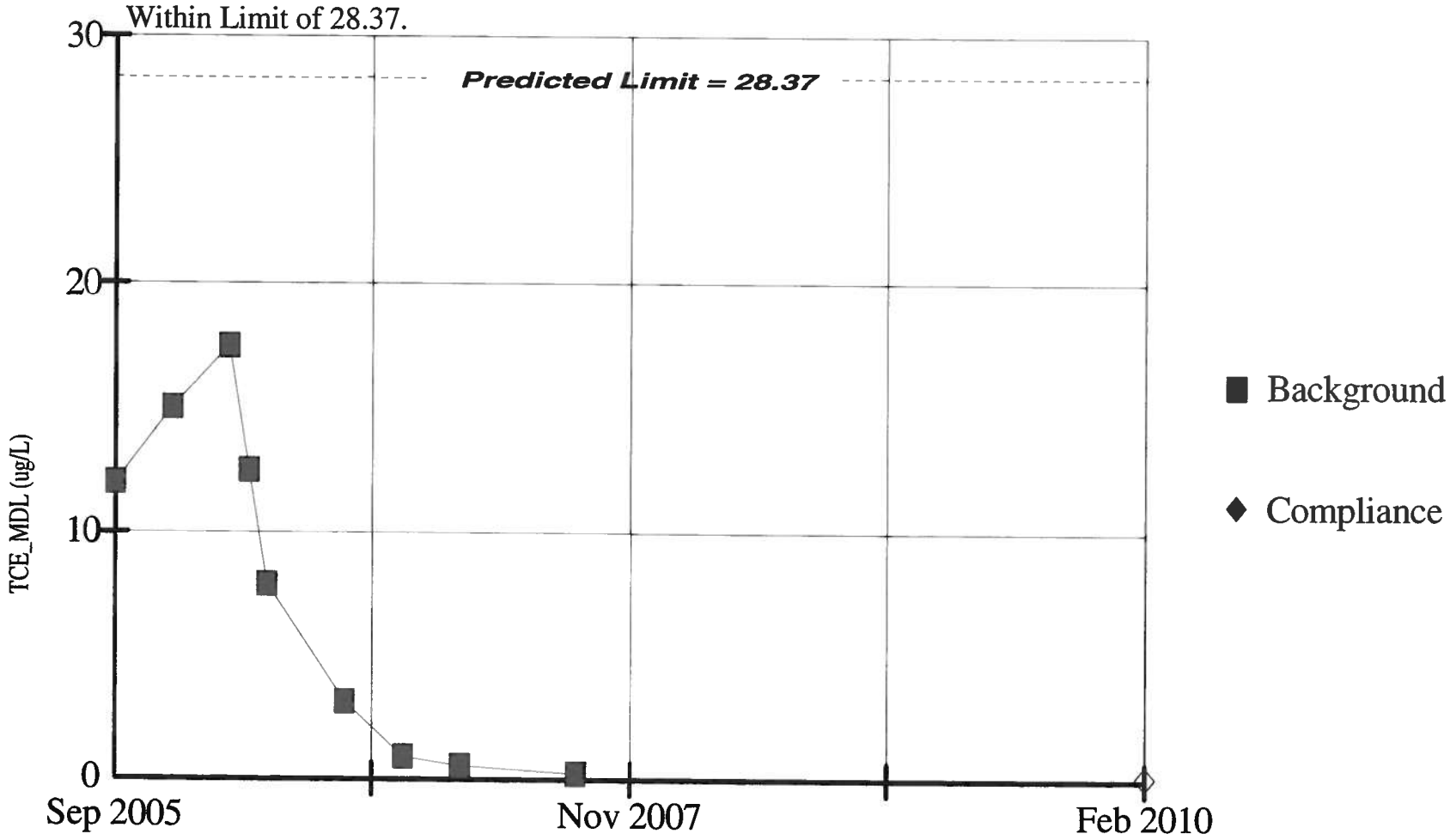
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:48 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-080A



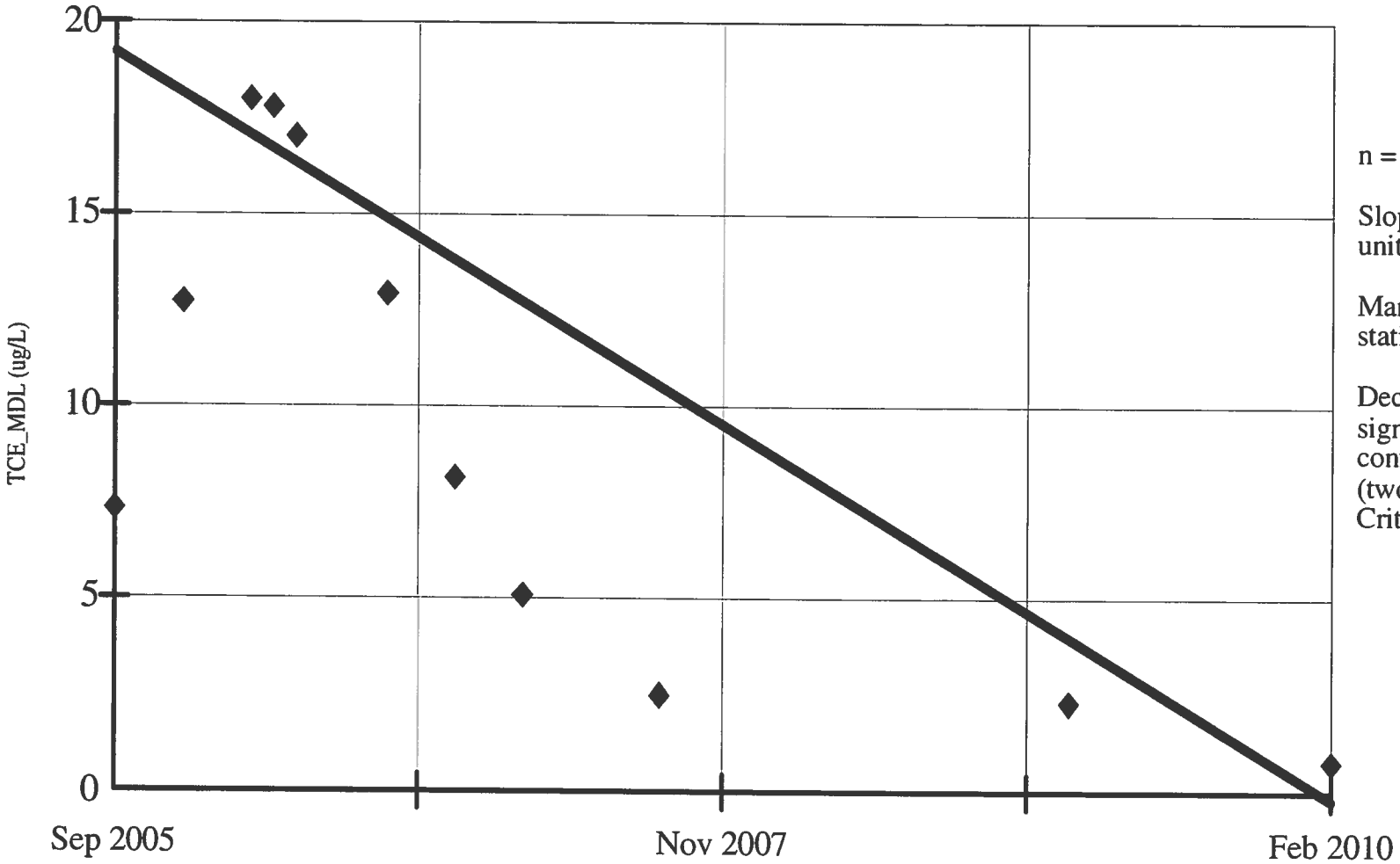
Background Data Summary: Mean=7.737, Std. Dev=6.759, 0% nds, 9 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8872, W Quantile = 0.829 at alpha = 0.05. Testwise alpha = 0.01 Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-080B



n = 11.

Slope = -4.344 units per year.

Mann Kendall statistic = -35.

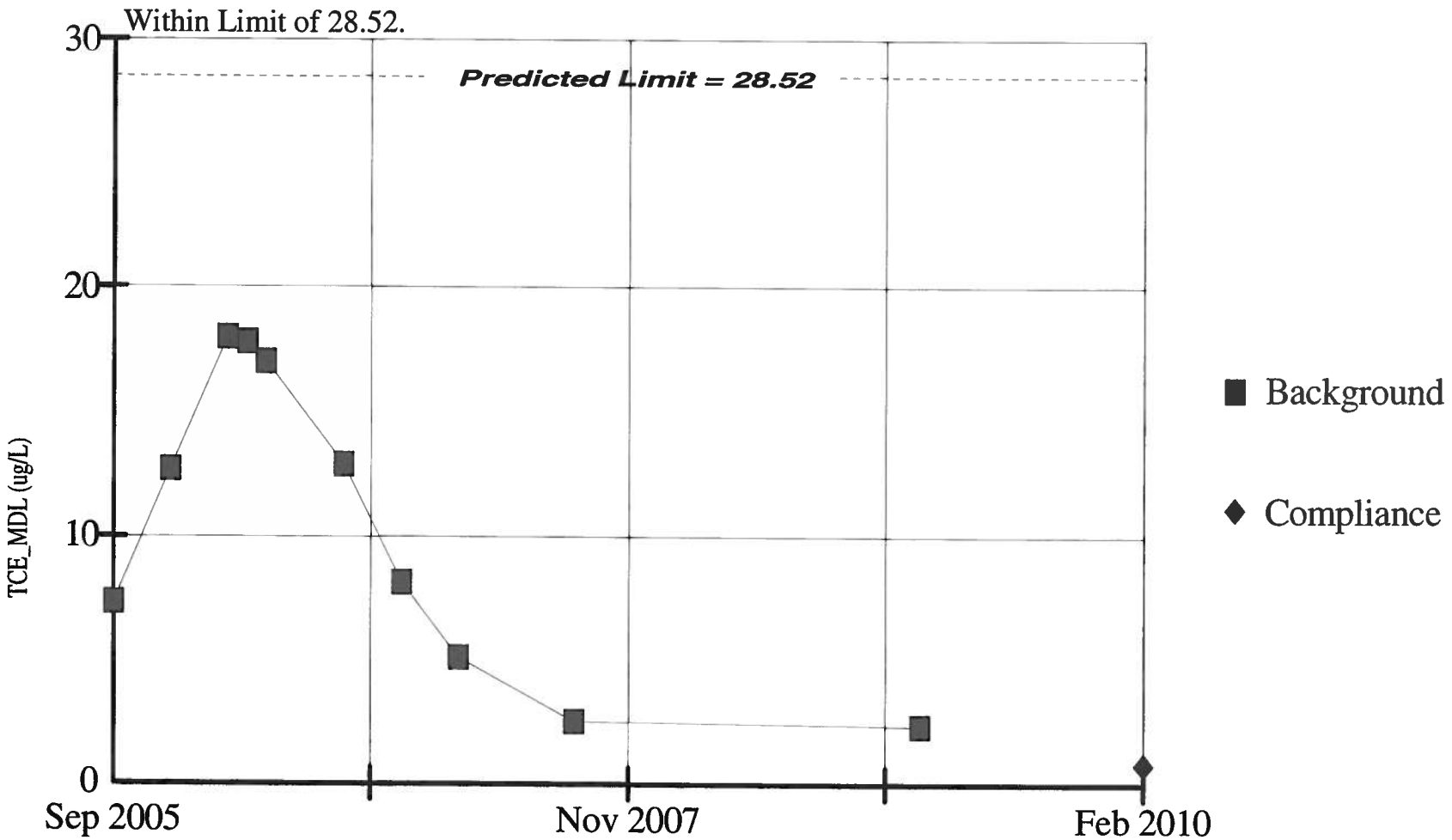
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -27.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:48 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-080B



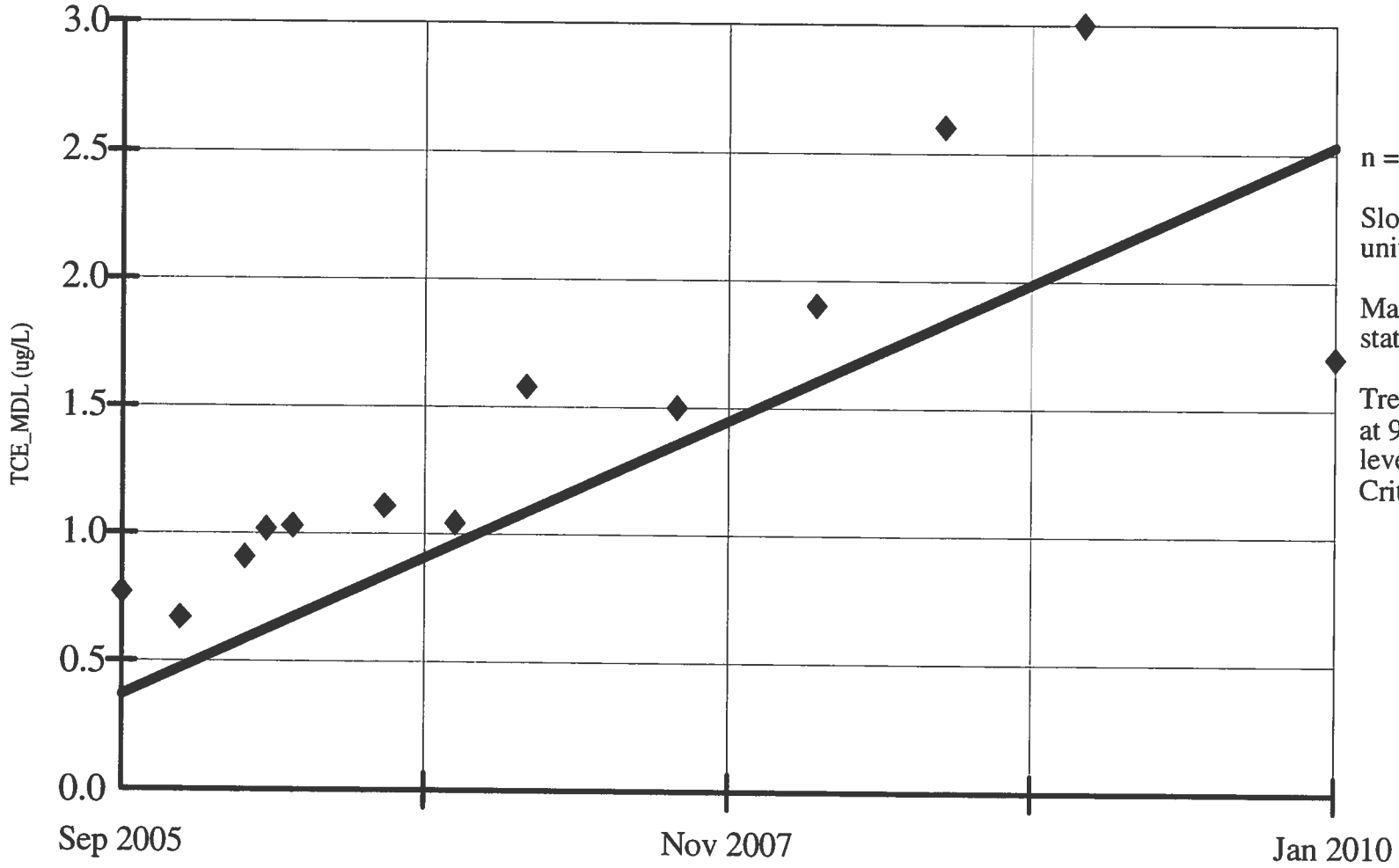
Background Data Summary: Mean=10.37, Std. Dev=6.135, 0% nds, 10 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9006, W Quantile = 0.842 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-089B



n = 13.

Slope = 0.501 units per year.

Mann Kendall statistic = 66.

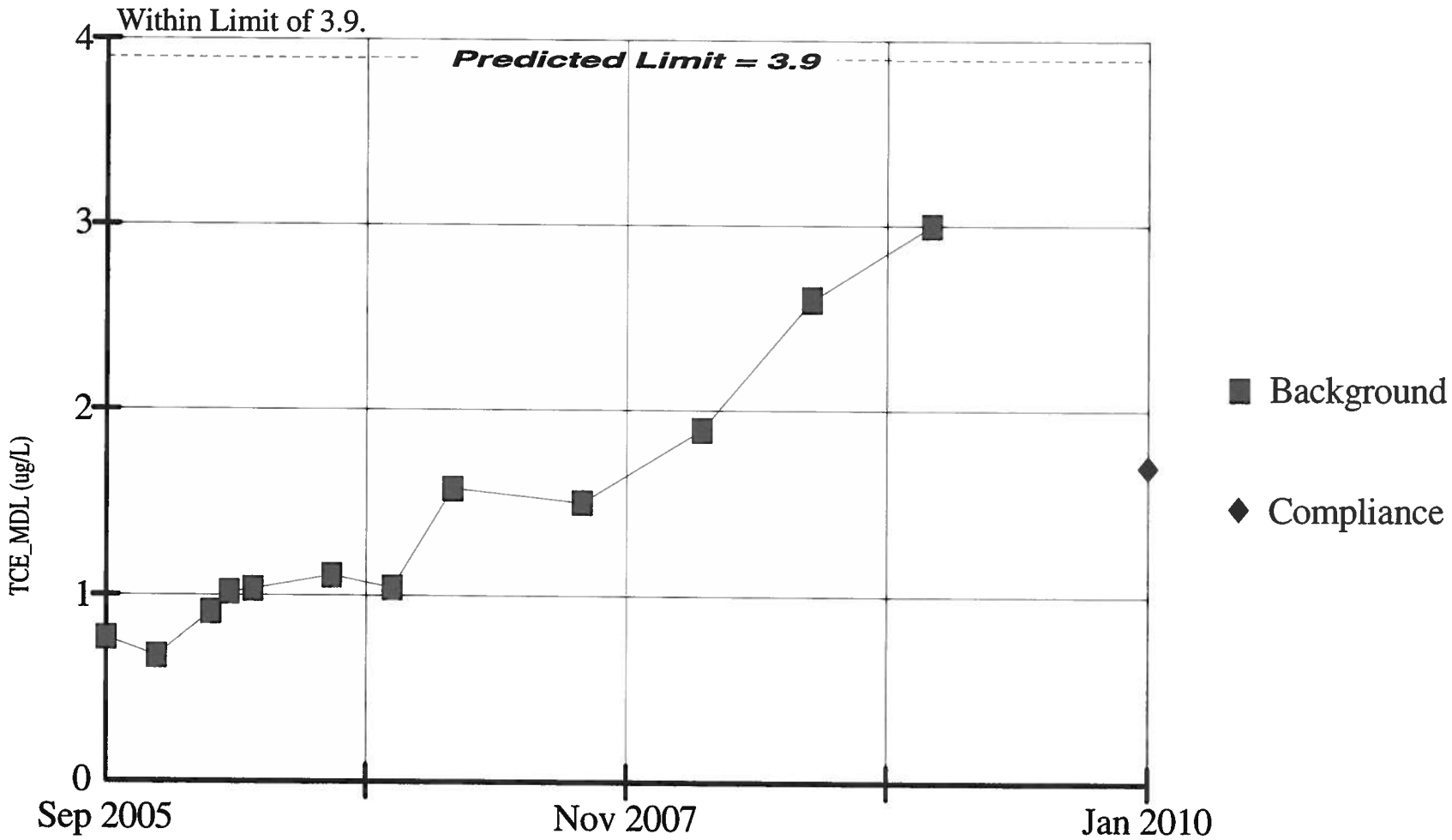
Trend significant at 95% confidence level (two tailed). Critical value = 34.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:49 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-089B



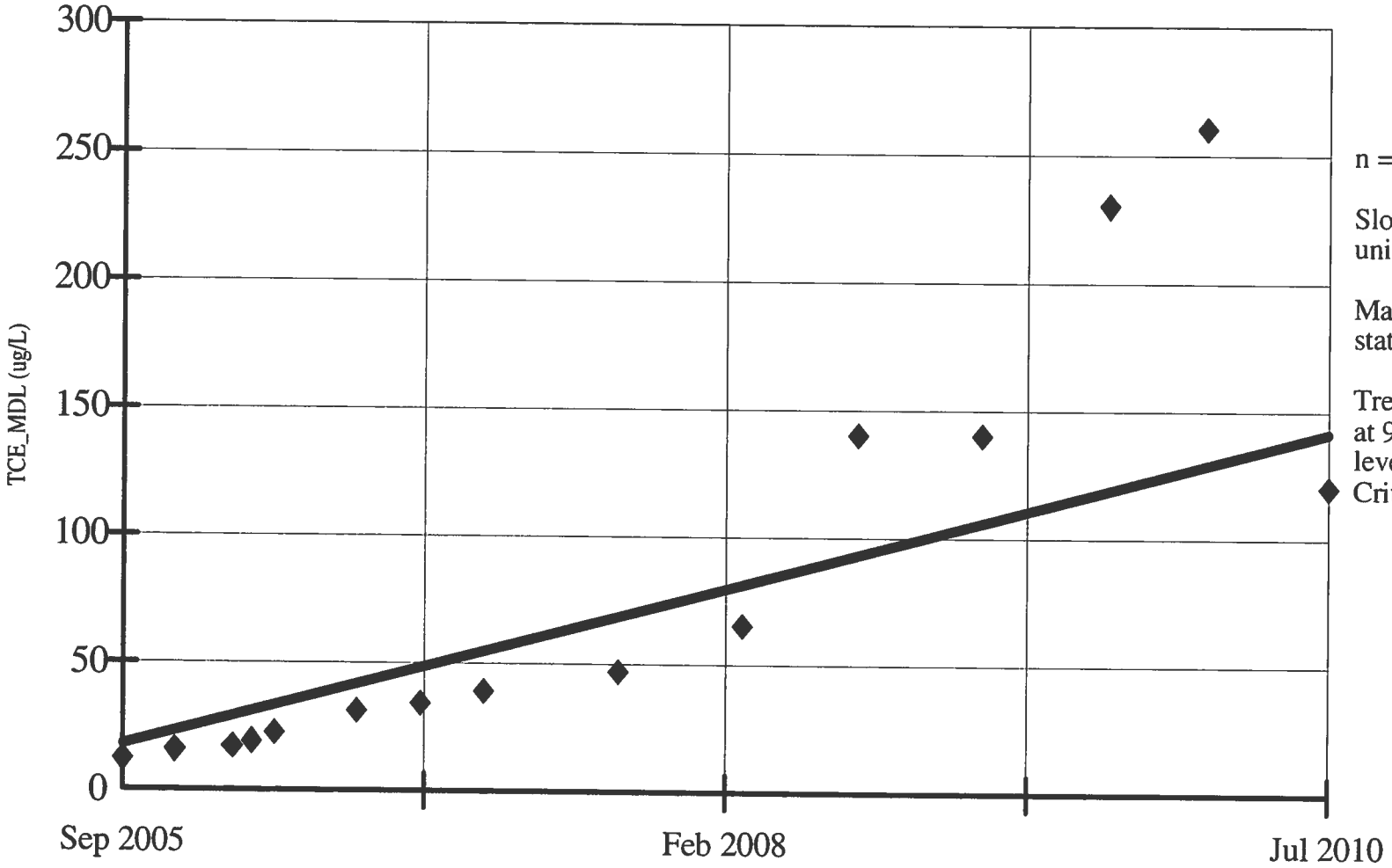
Background Data Summary: (based on square root(x) transformed data) Mean=1.163, Std. Dev=0.287, 0% nds, 12 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9008, W Quantile = 0.859 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-090A



n = 15.

Slope = 25.795 units per year.

Mann Kendall statistic = 96.

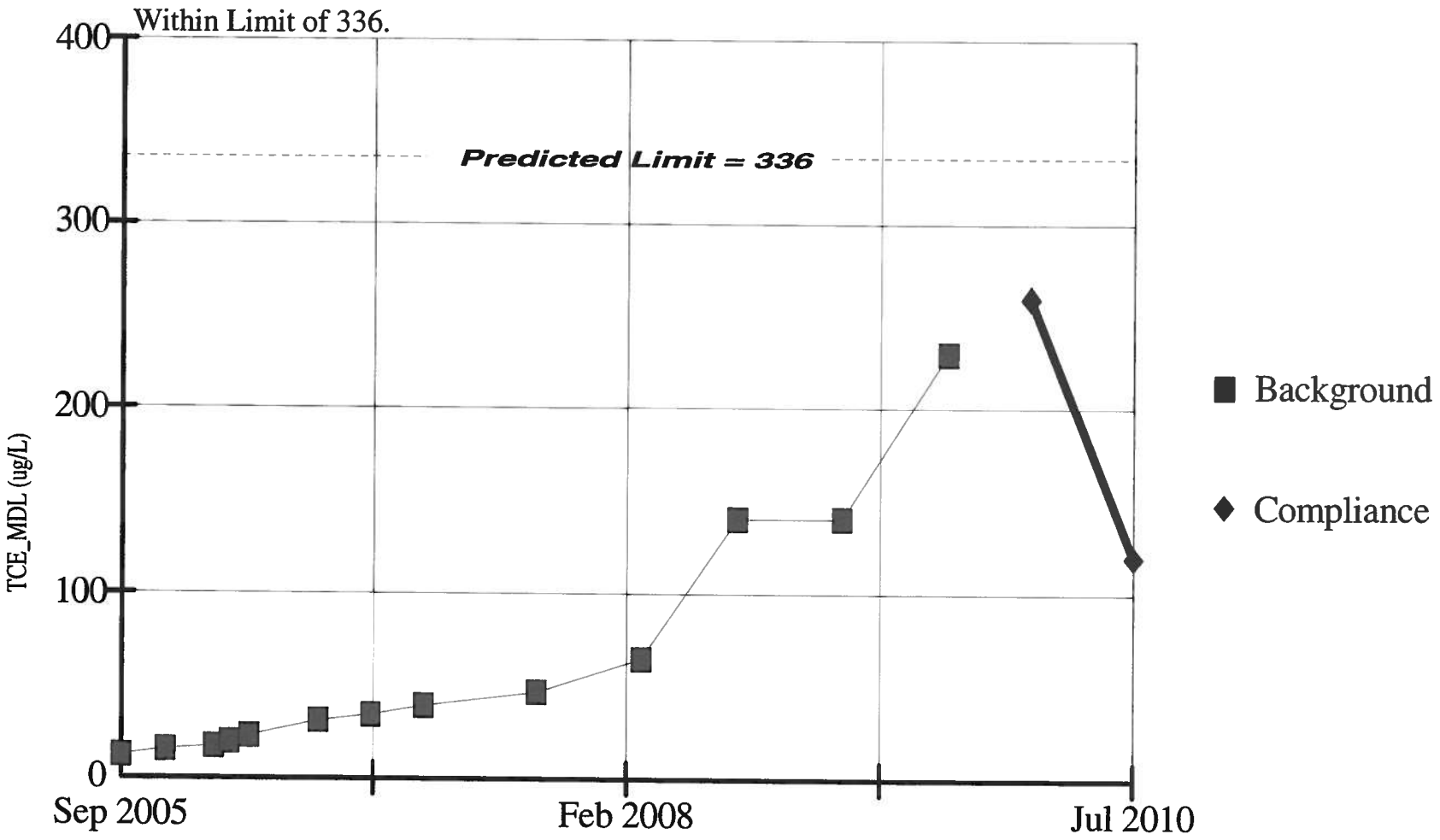
Trend significant at 95% confidence level (two tailed). Critical value = 41.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:49 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-090A



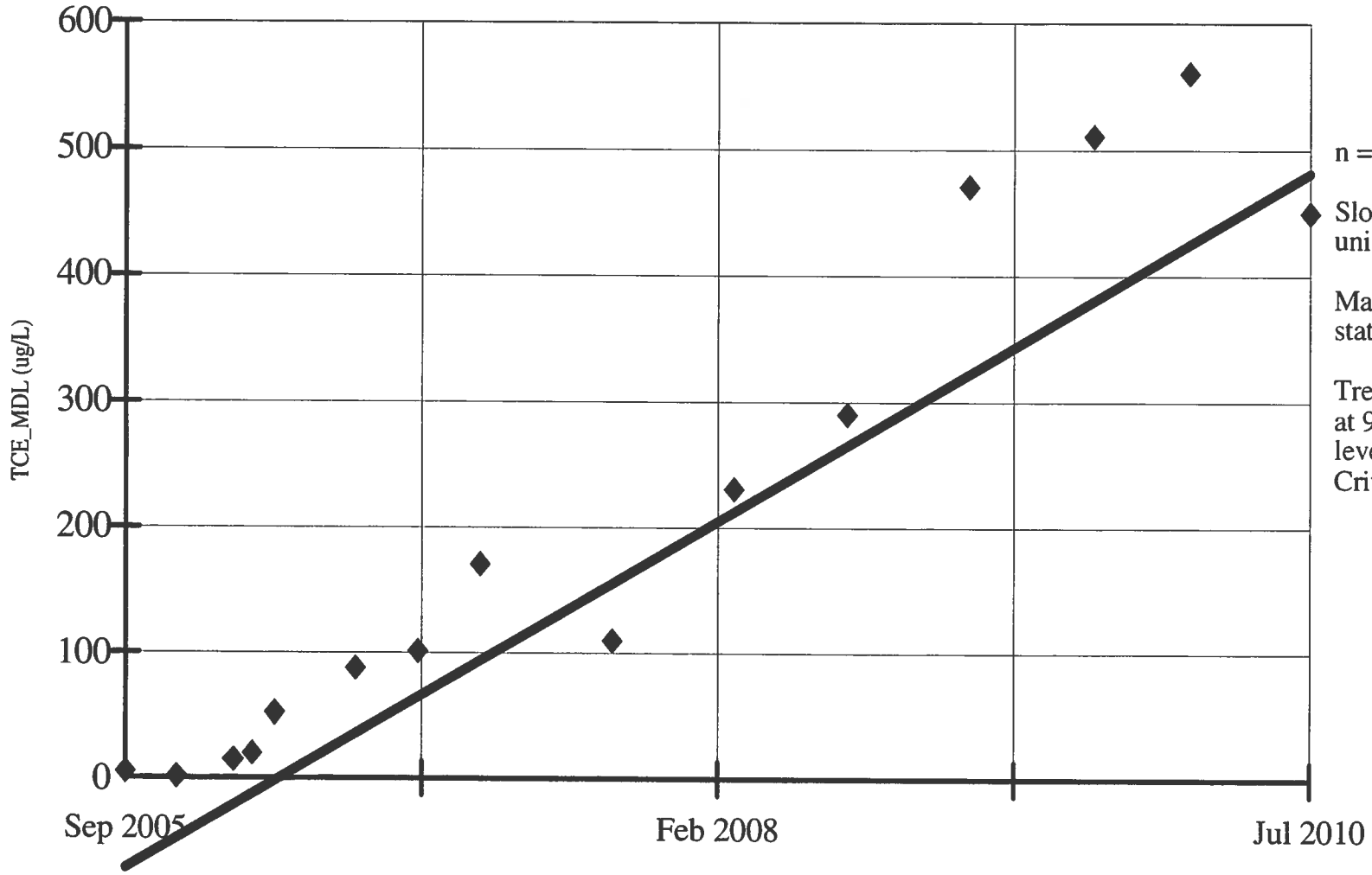
Background Data Summary: (based on cube root(x) transformed data) Mean=3.601, Std. Dev=1.205, 0% nds, 13 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8777, W Quantile = 0.866 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-090B



n = 15.

Slope = 114.902 units per year.

Mann Kendall statistic = 95.

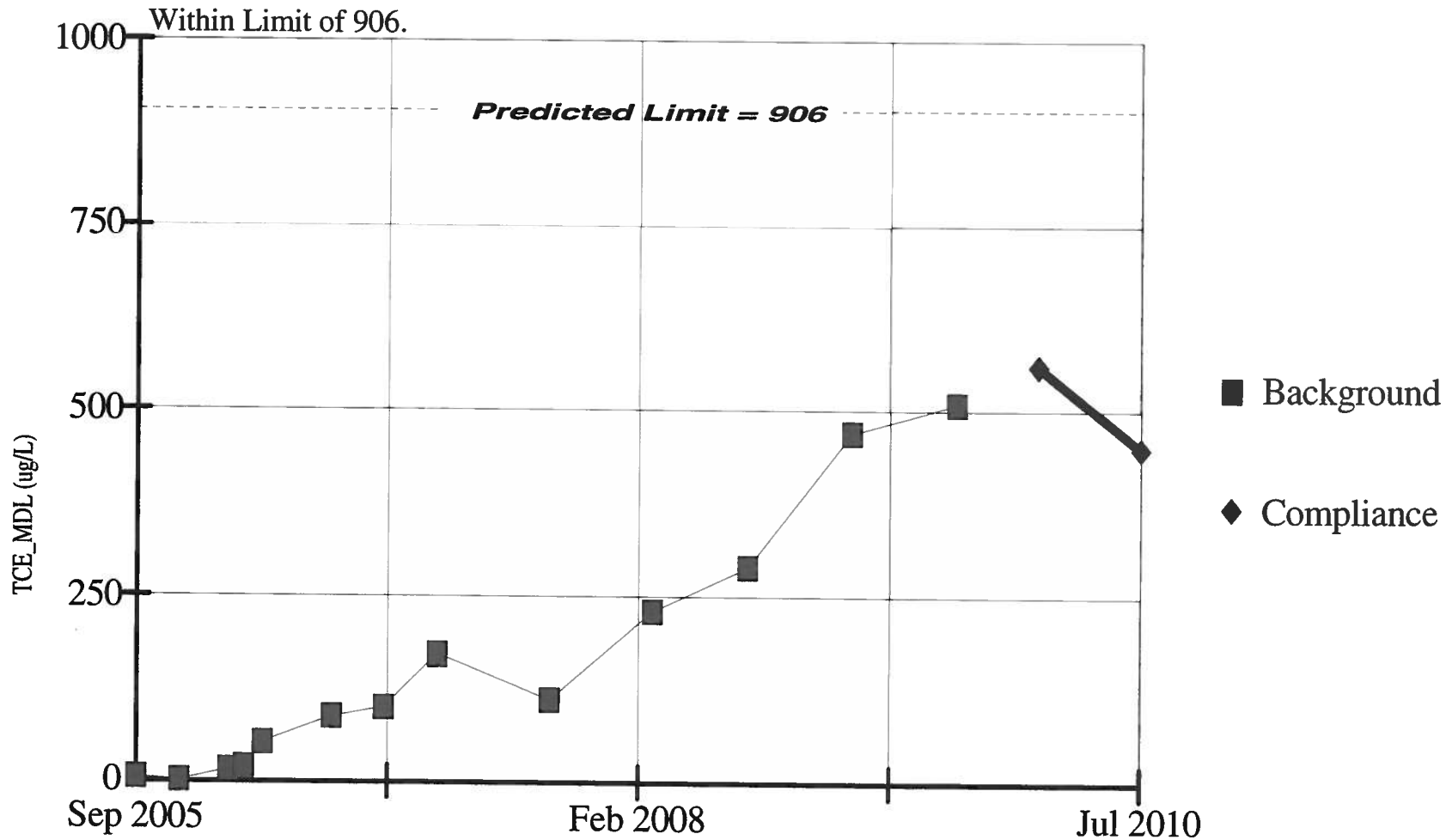
Trend significant at 95% confidence level (two tailed). Critical value = 41.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:49 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-090B



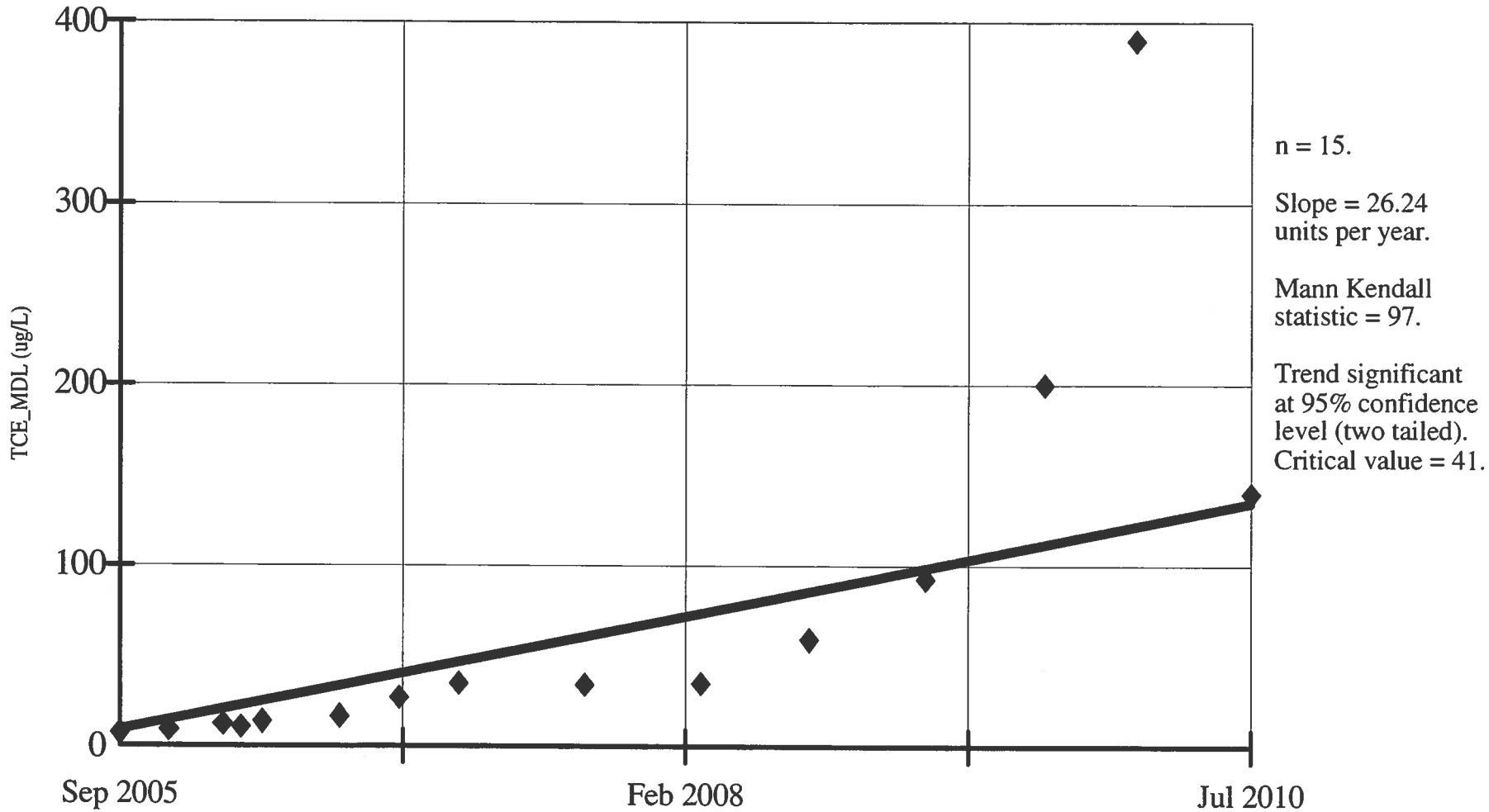
Background Data Summary: (based on square root(x) transformed data) Mean=10.66, Std. Dev=6.988, 0% nds, 13 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9453, W Quantile = 0.866 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-090D

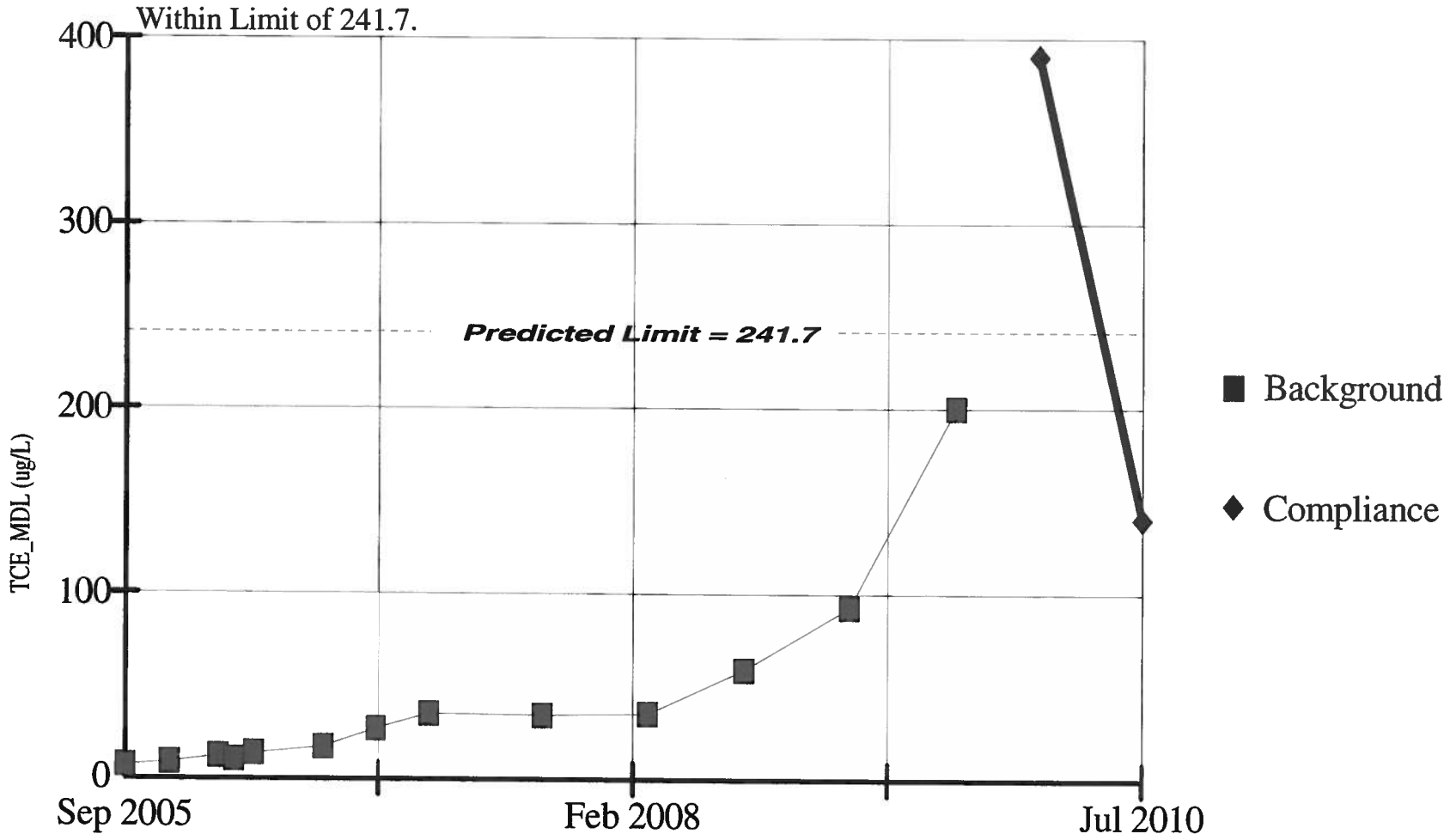


Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:49 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-090D



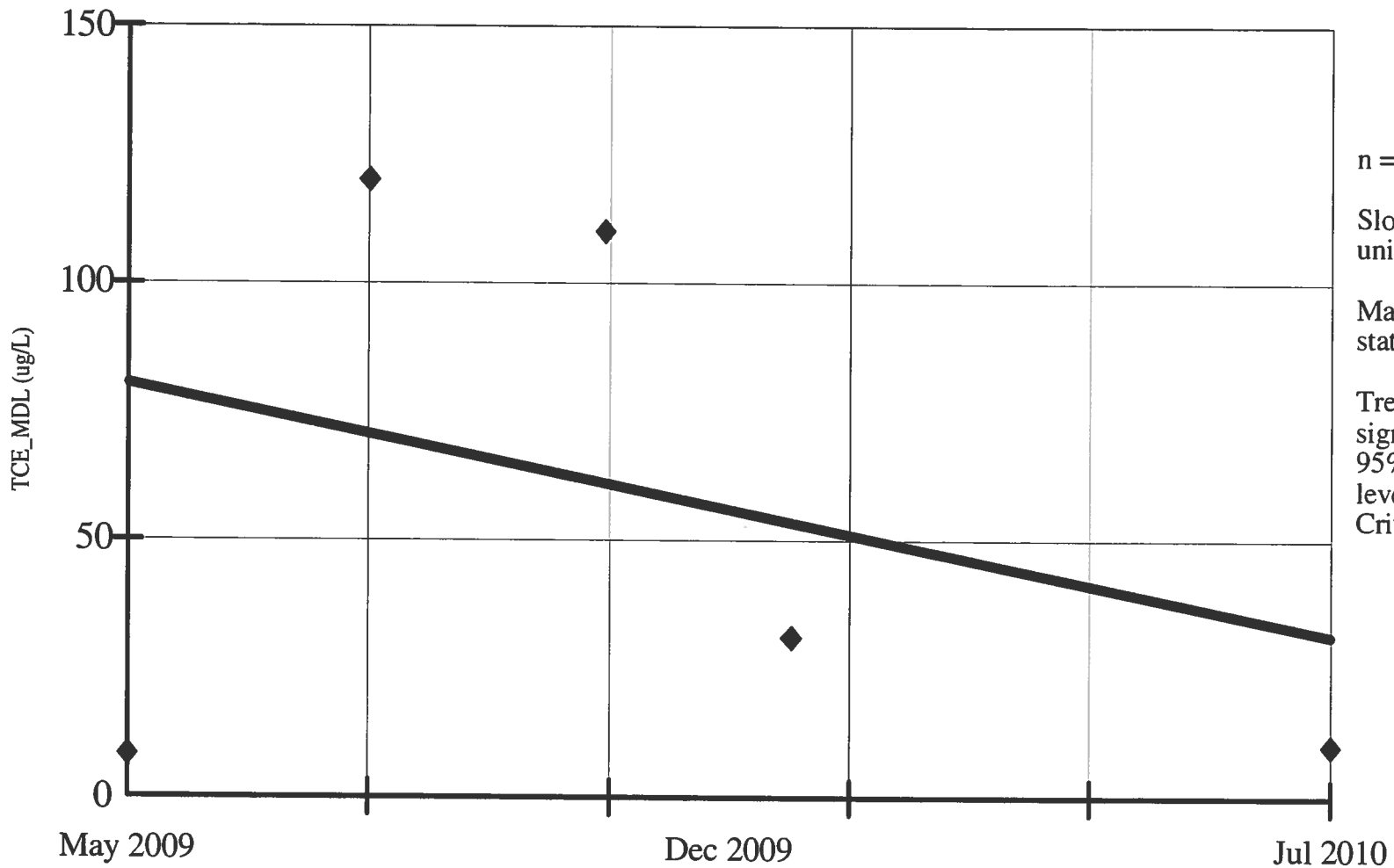
Background Data Summary: (based on cube root(x) transformed data) Mean=3.112, Std. Dev=1.12, 0% nds, 13 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8786, W Quantile = 0.866 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:22 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-104A



n = 5.

Slope = -40.679 units per year.

Mann Kendall statistic = -2.

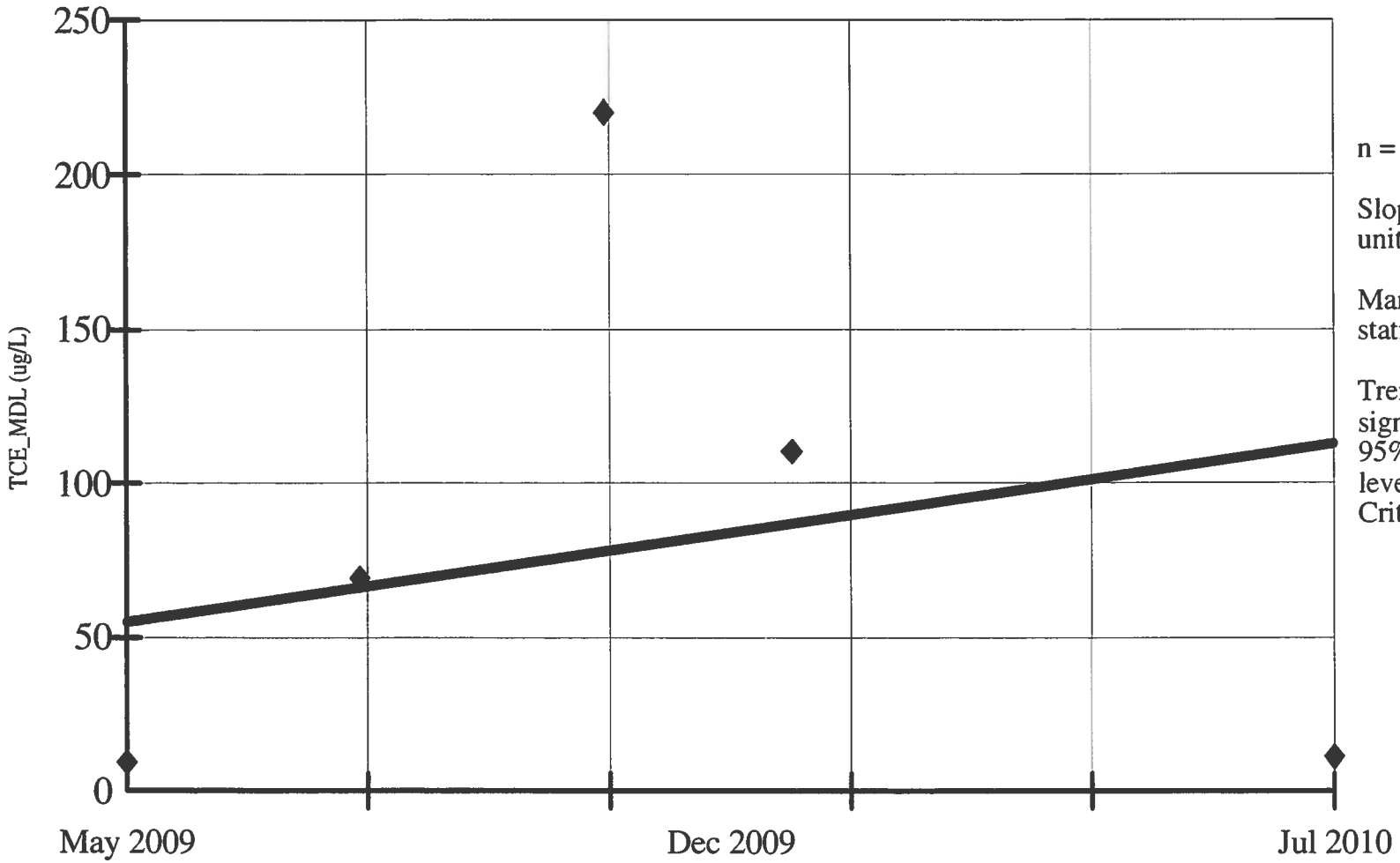
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:50 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-104B



n = 5.

Slope = 48.482 units per year.

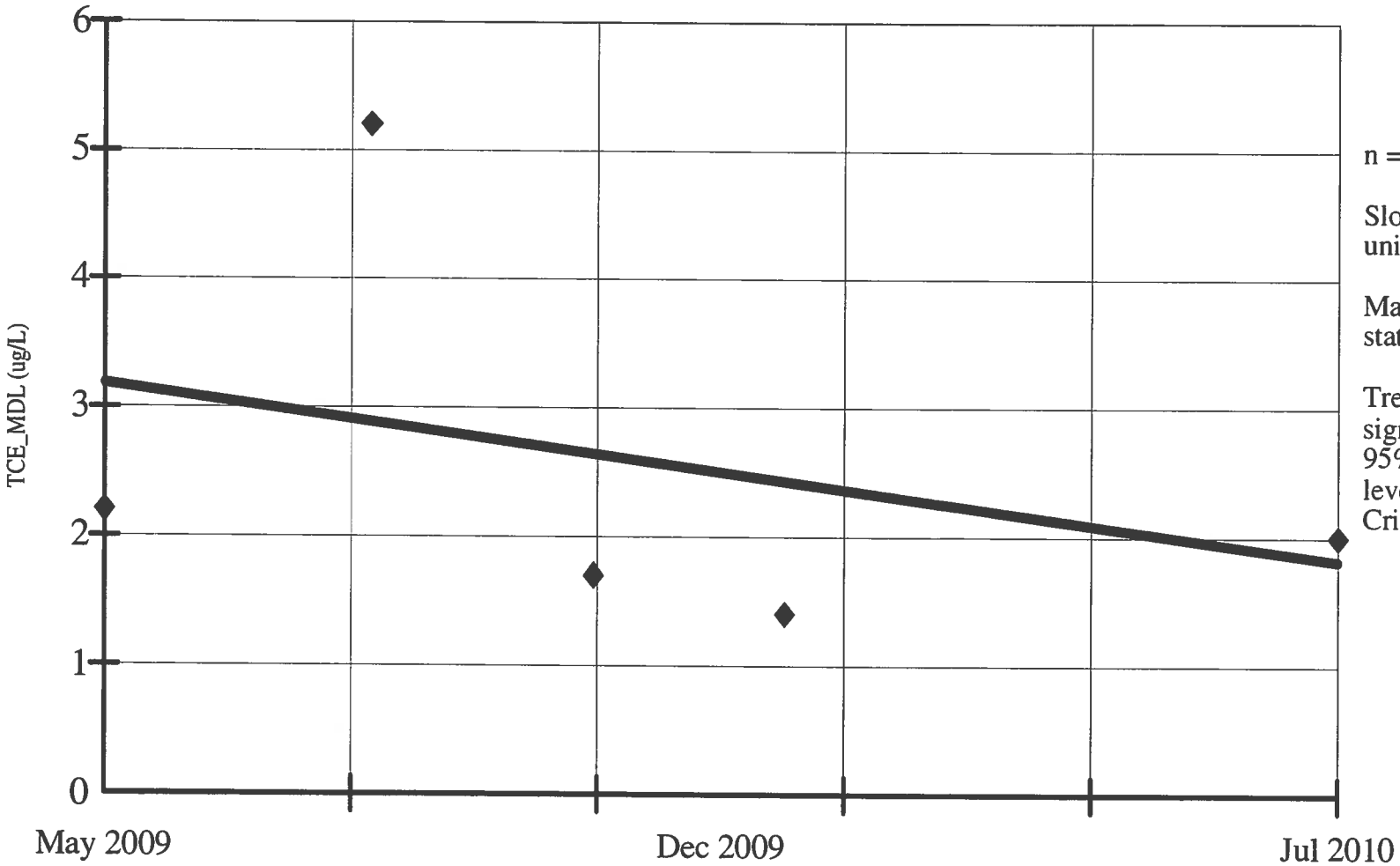
Mann Kendall statistic = 2.

Trend not significant at 95% confidence level (two tailed). Critical value = 10.

Constituent: TCE_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:50 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-104D



n = 5.

Slope = -1.128 units per year.

Mann Kendall statistic = -4.

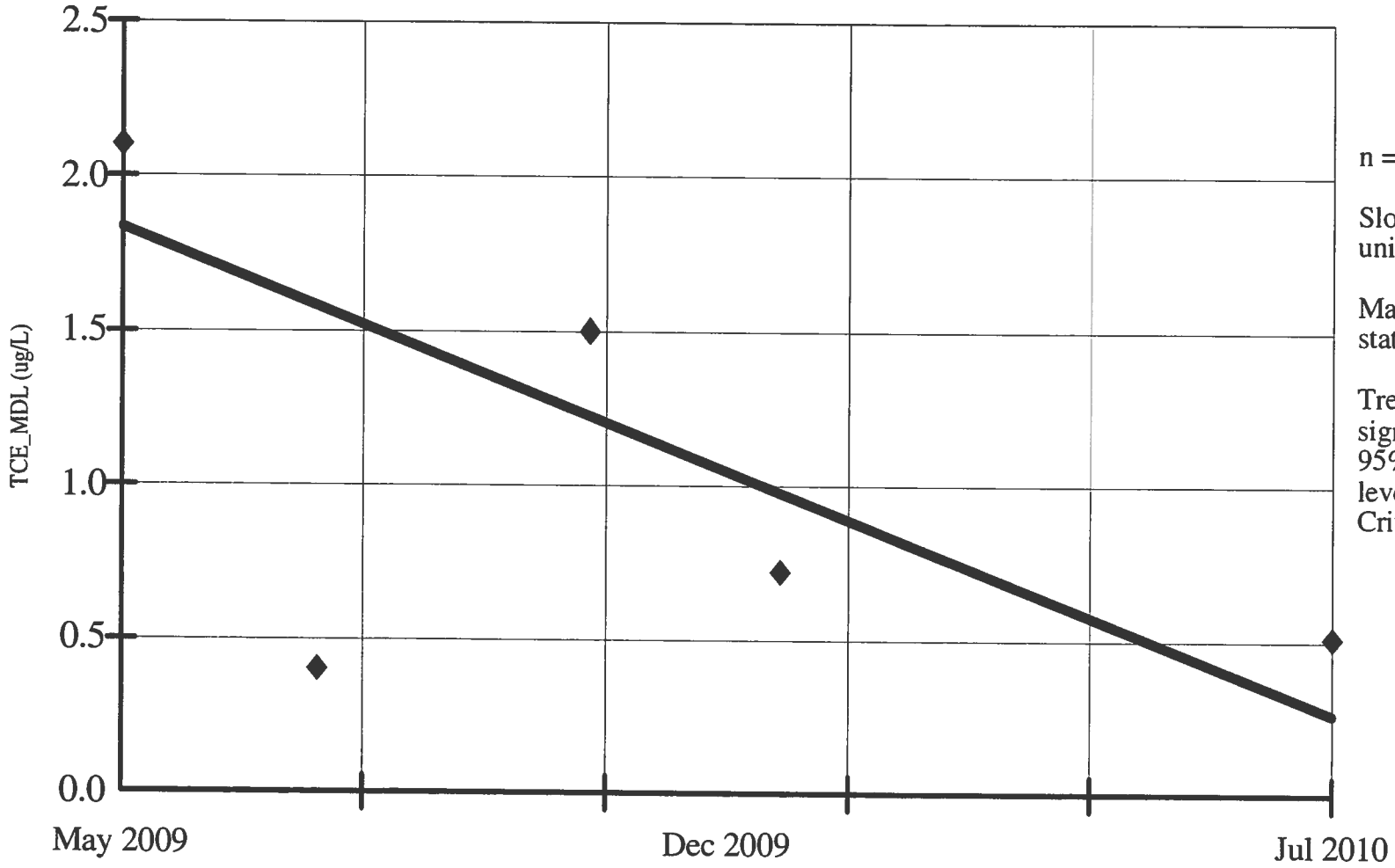
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:50 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-104O



n = 5.

Slope = -1.328 units per year.

Mann Kendall statistic = -4.

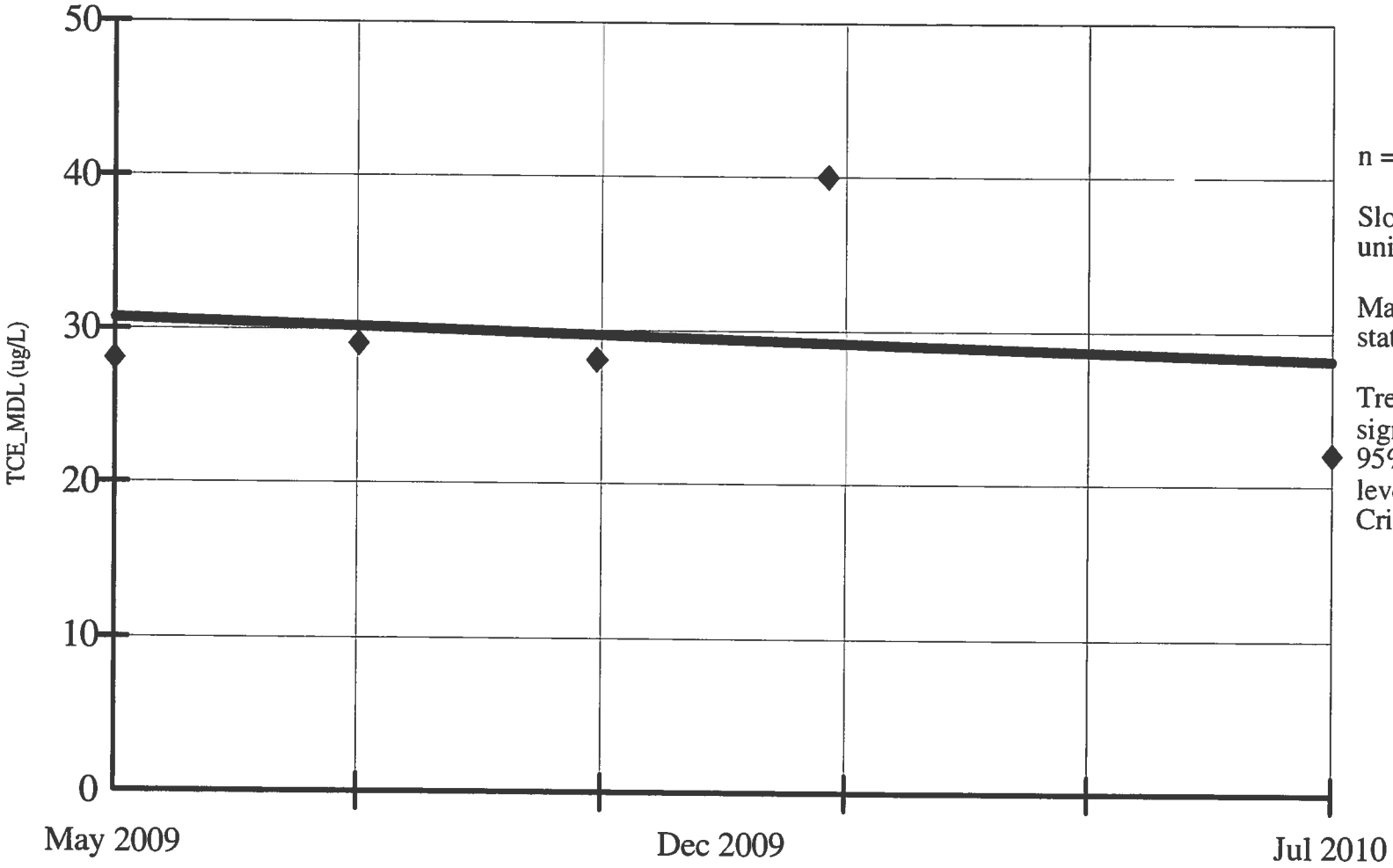
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:50 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-105A



n = 5.

Slope = -2.122 units per year.

Mann Kendall statistic = -1.

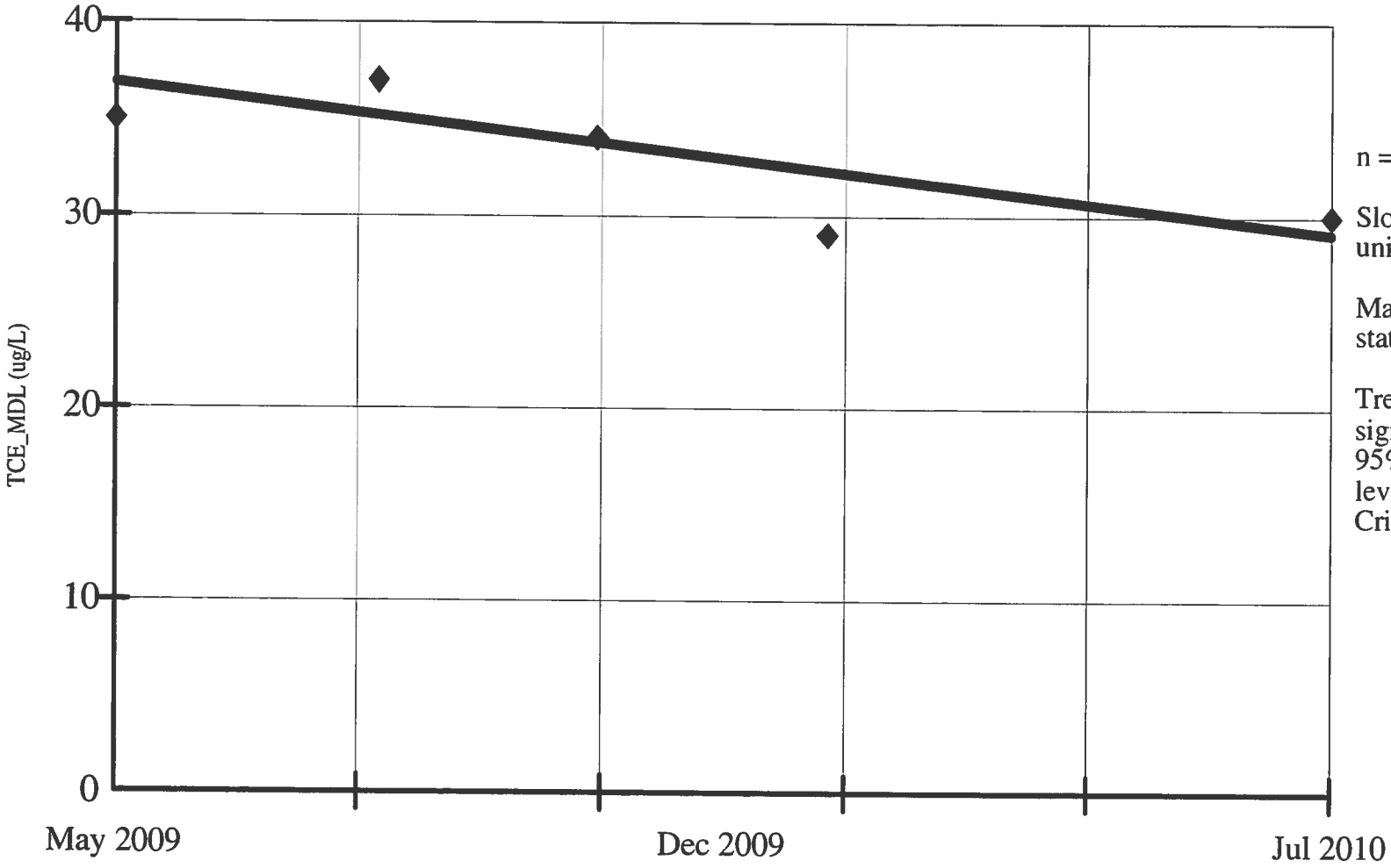
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:50 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-105B



n = 5.

Slope = -6.468 units per year.

Mann Kendall statistic = -6.

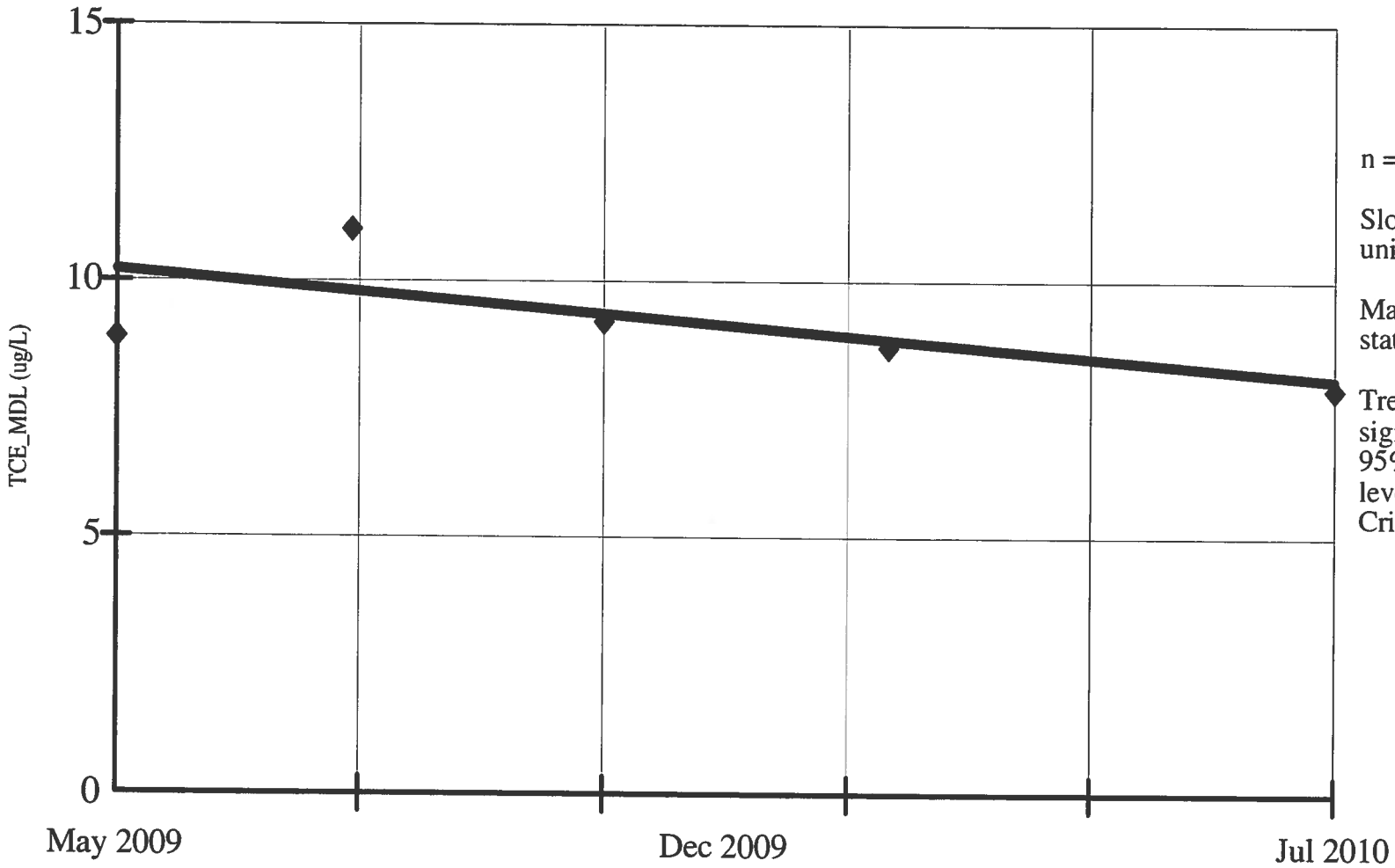
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:50 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-109A



n = 5.

Slope = -1.784 units per year.

Mann Kendall statistic = -6.

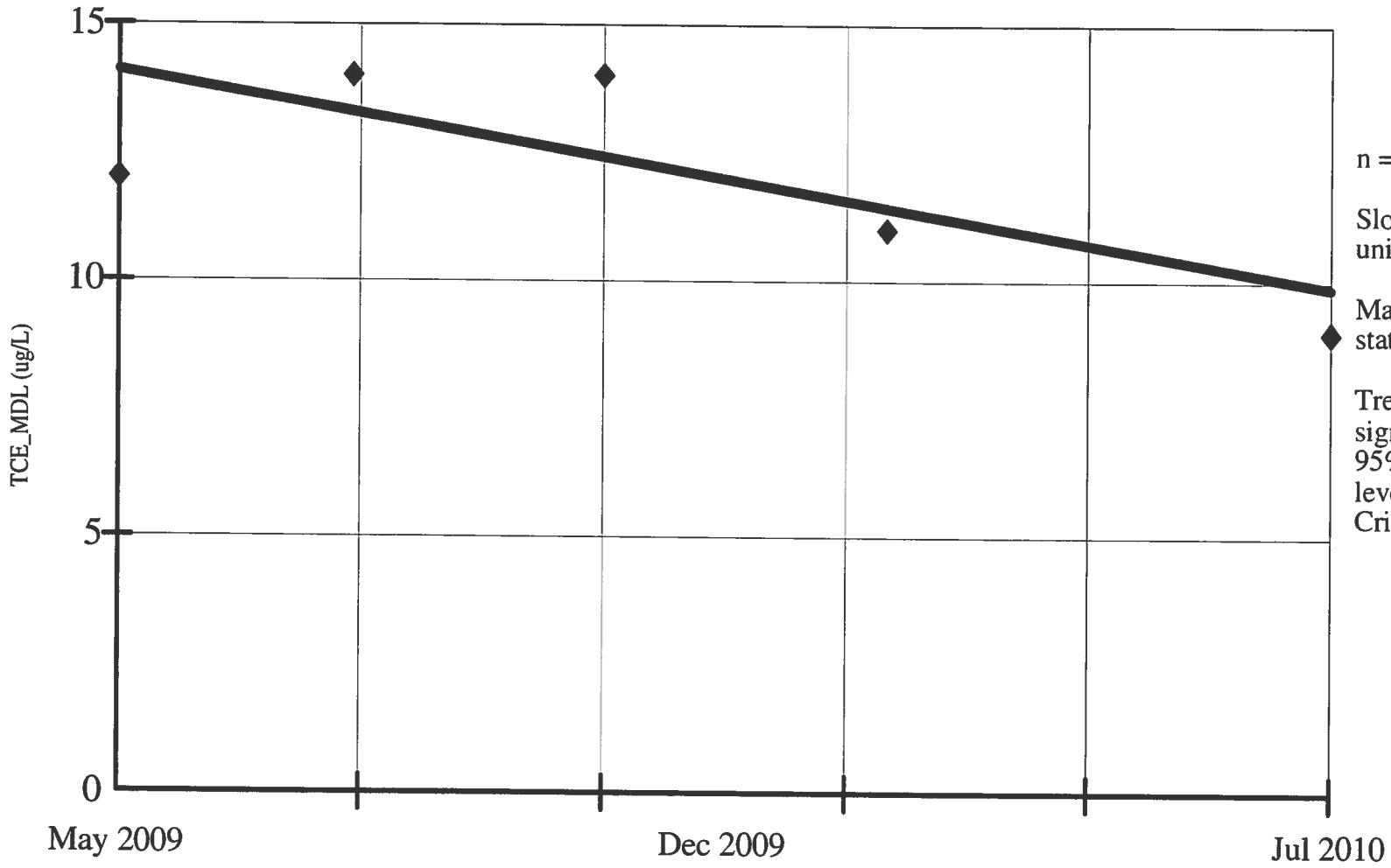
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:50 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-109B



n = 5.

Slope = -3.511 units per year.

Mann Kendall statistic = -5.

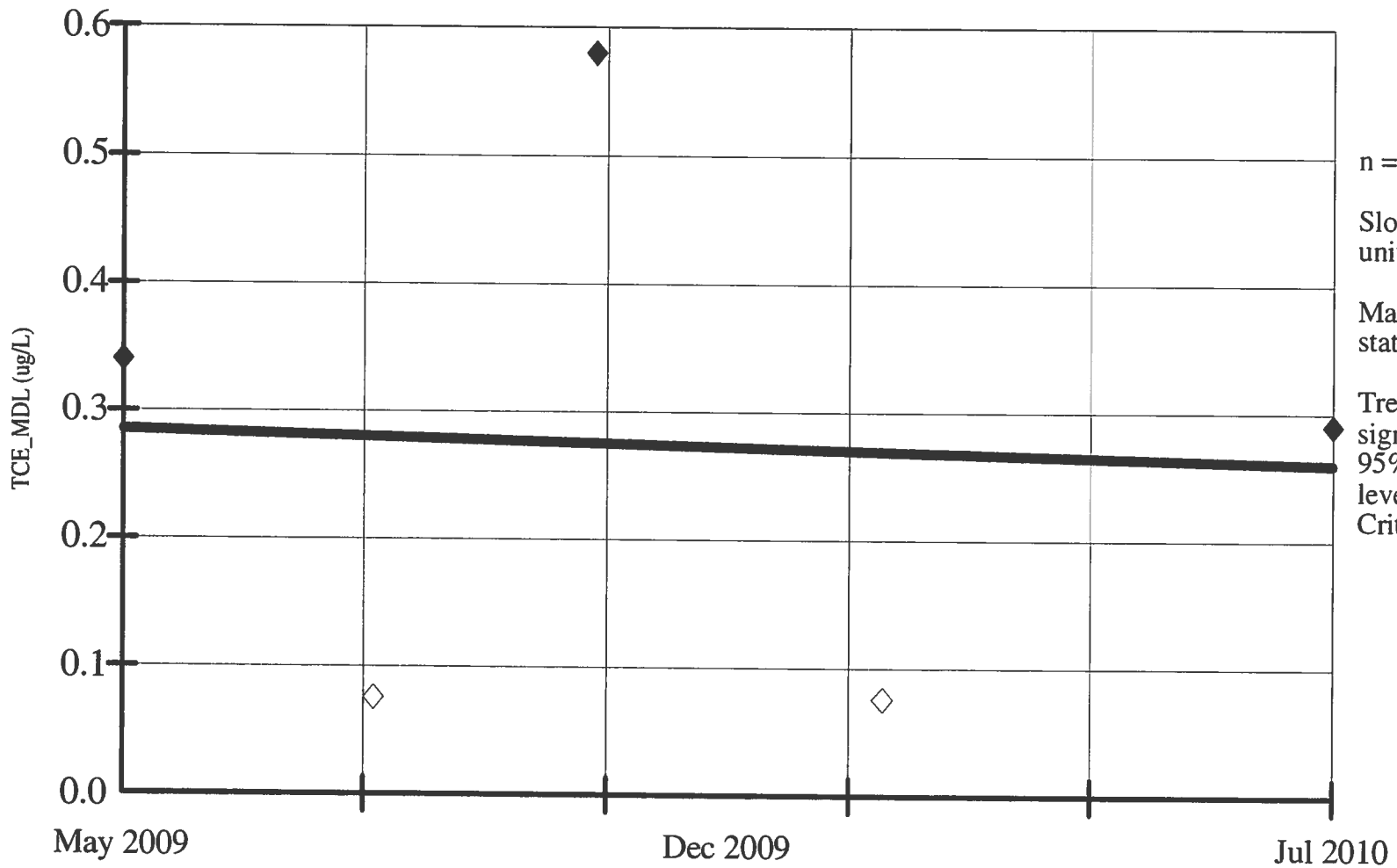
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:50 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-109O



n = 5.

Slope = -0.021 units per year.

Mann Kendall statistic = -1.

Trend not significant at 95% confidence level (two tailed). Critical value = -10.

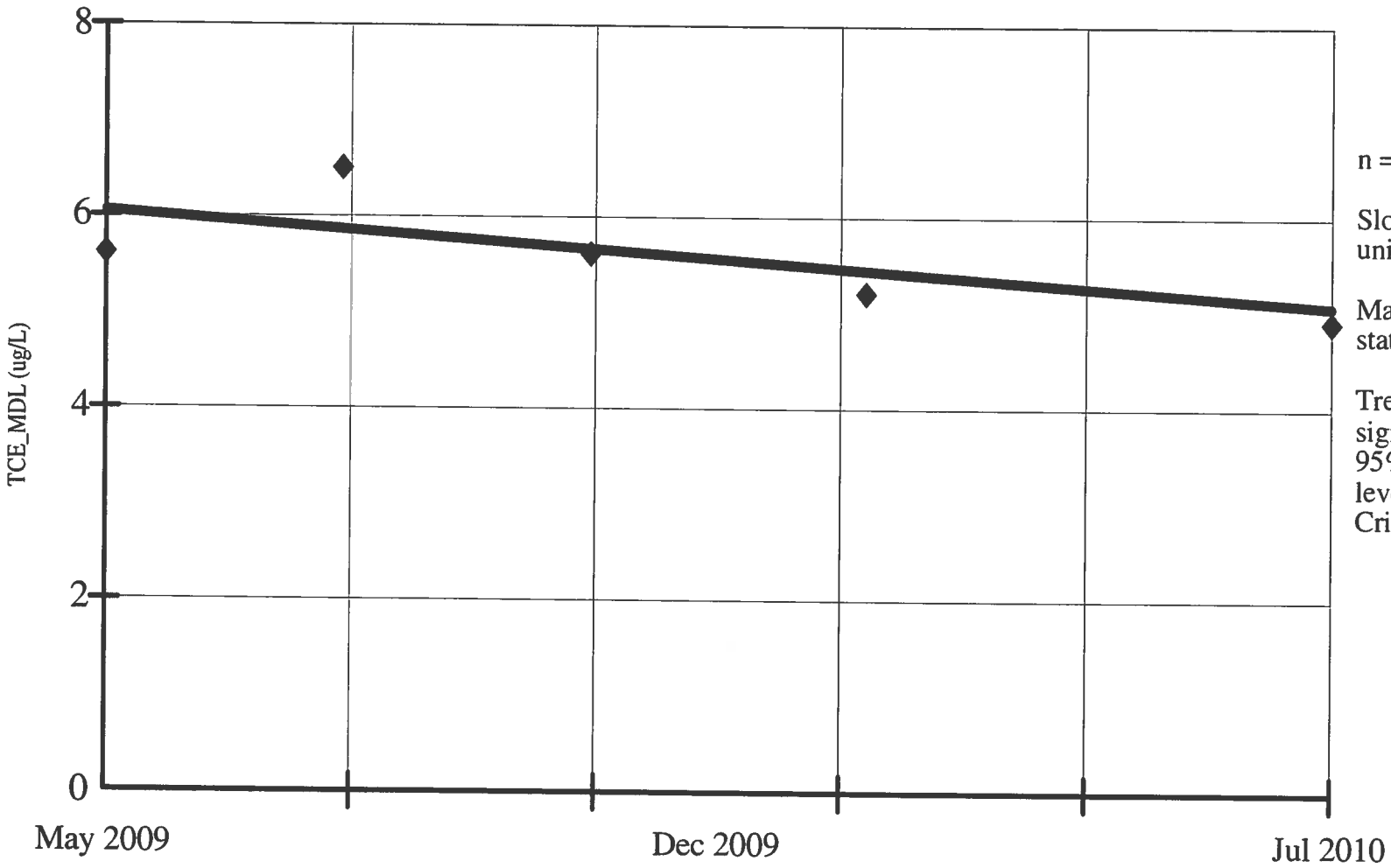
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:50 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-111A



n = 5.

Slope = -0.808 units per year.

Mann Kendall statistic = -7.

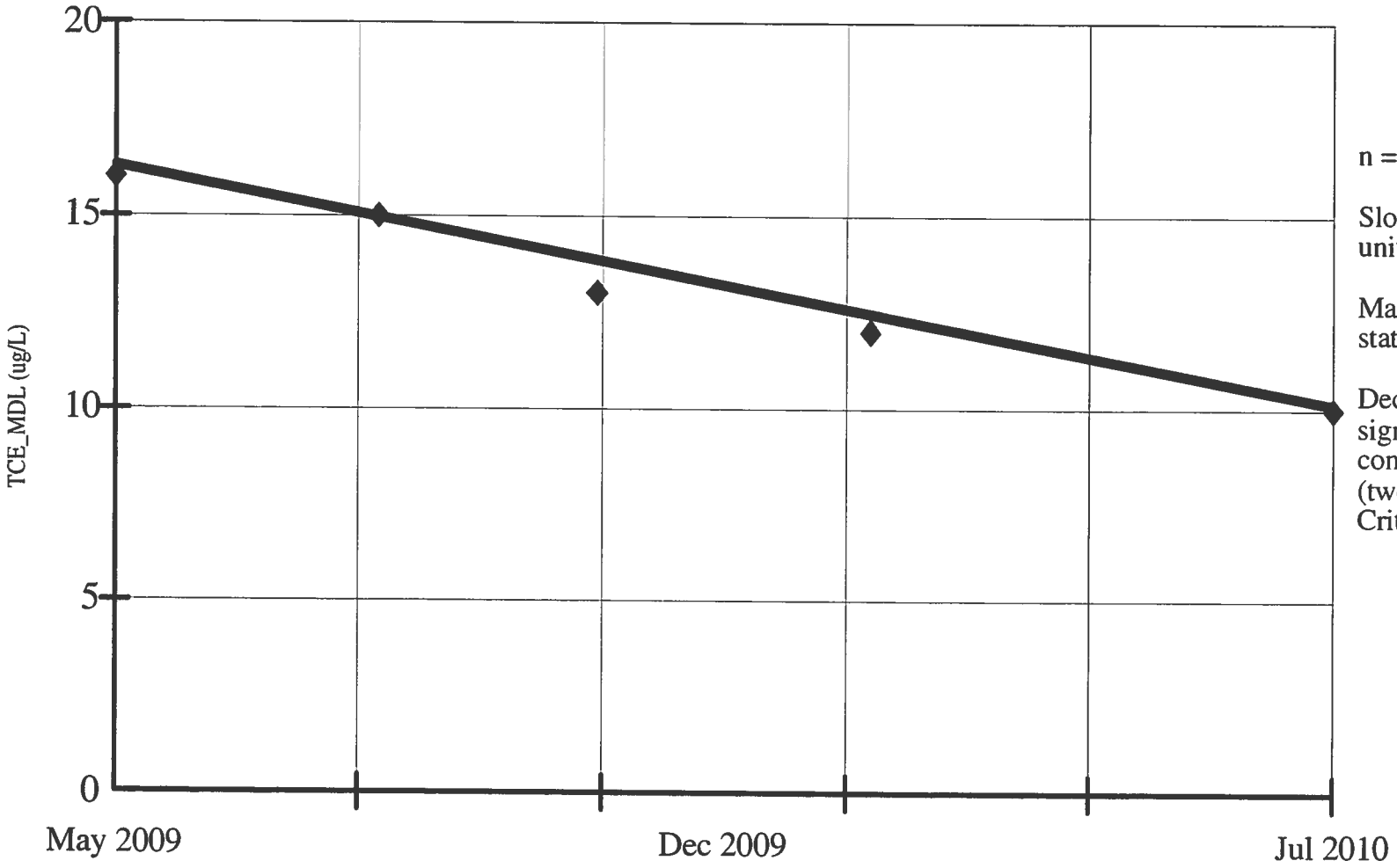
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:50 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-111B



n = 5.

Slope = -5.134 units per year.

Mann Kendall statistic = -10.

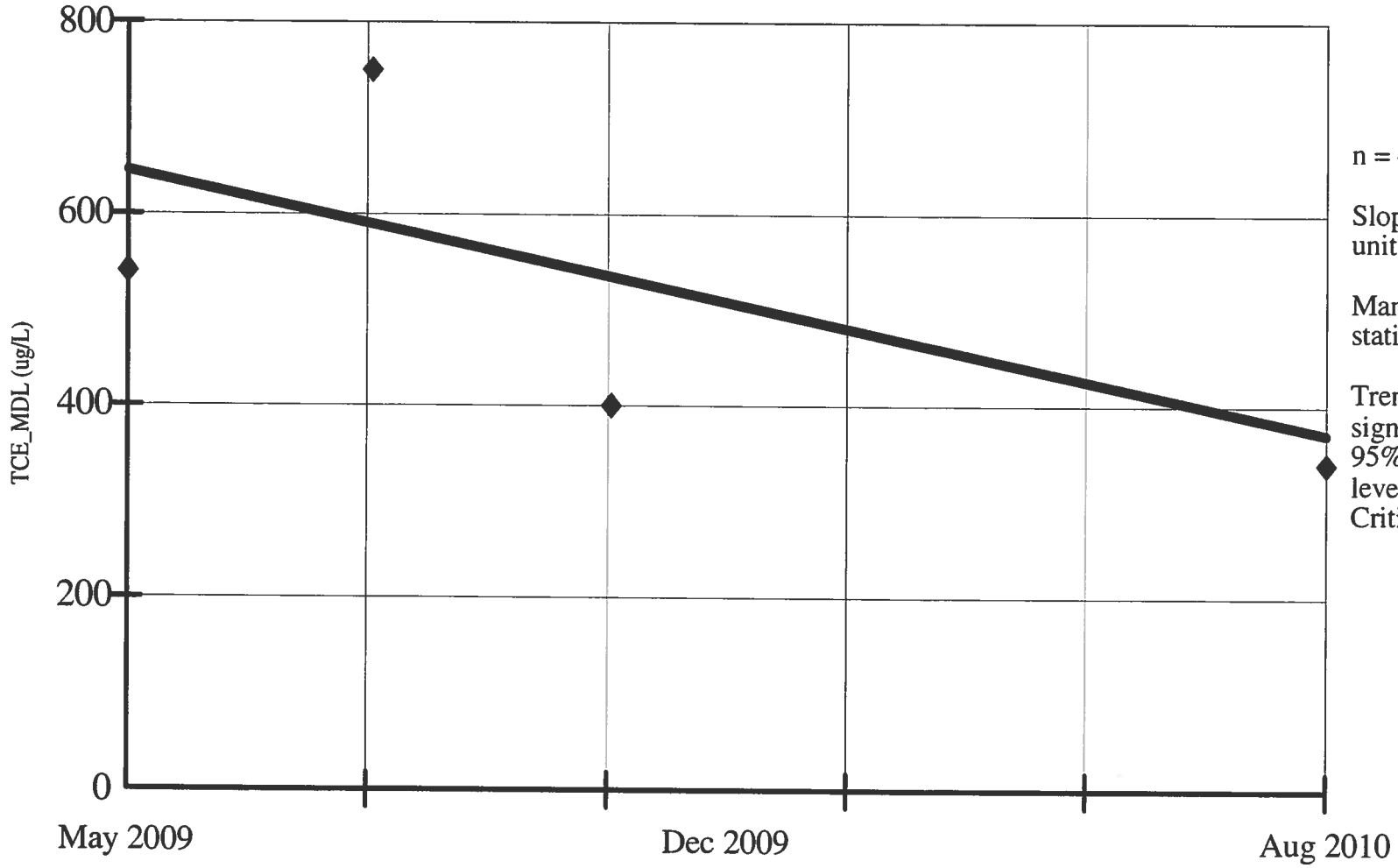
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:50 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-120A



n = 4.

Slope = -223.782 units per year.

Mann Kendall statistic = -4.

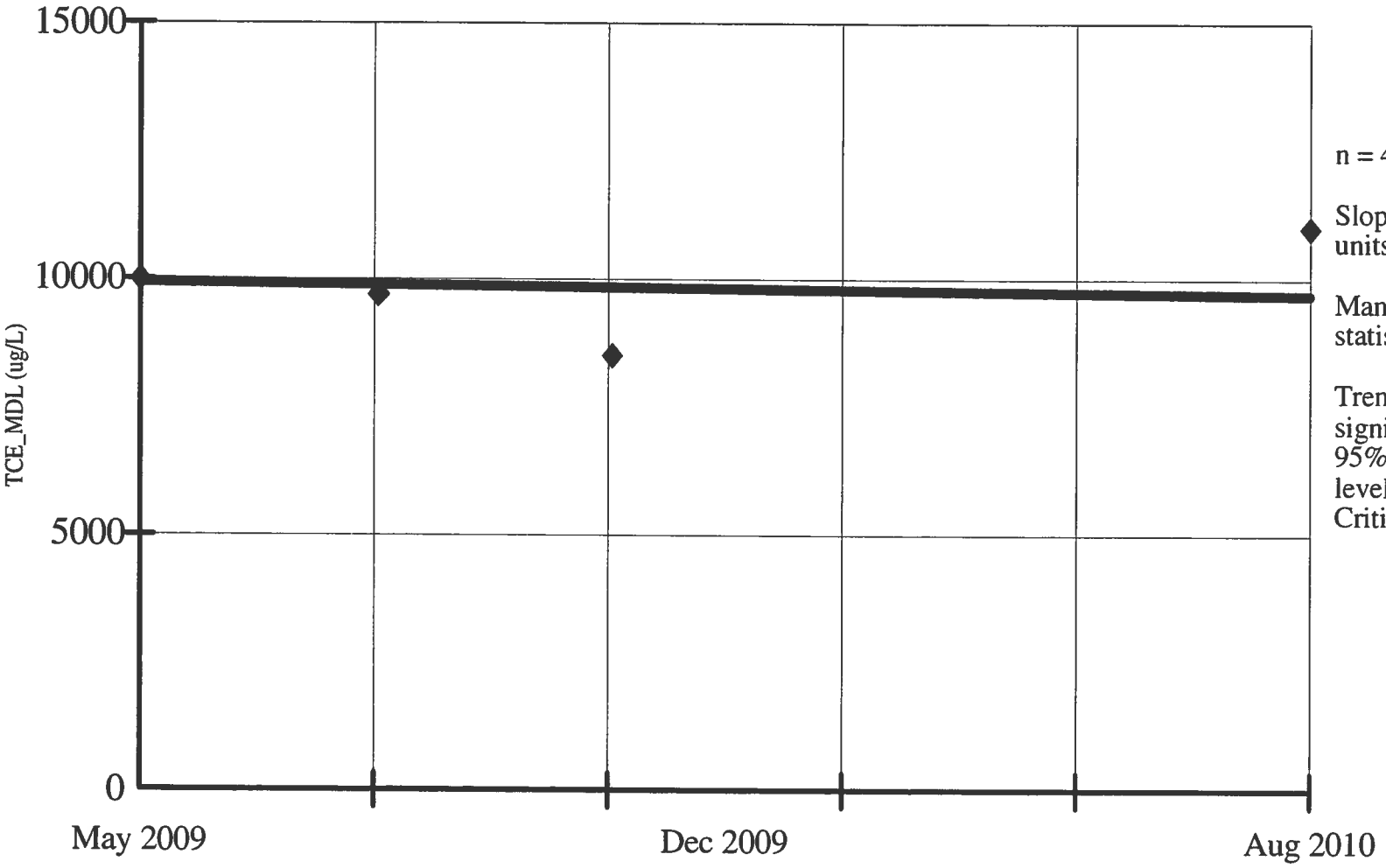
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:51 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-120B



n = 4.

Slope = -192.538 units per year.

Mann Kendall statistic = 0.

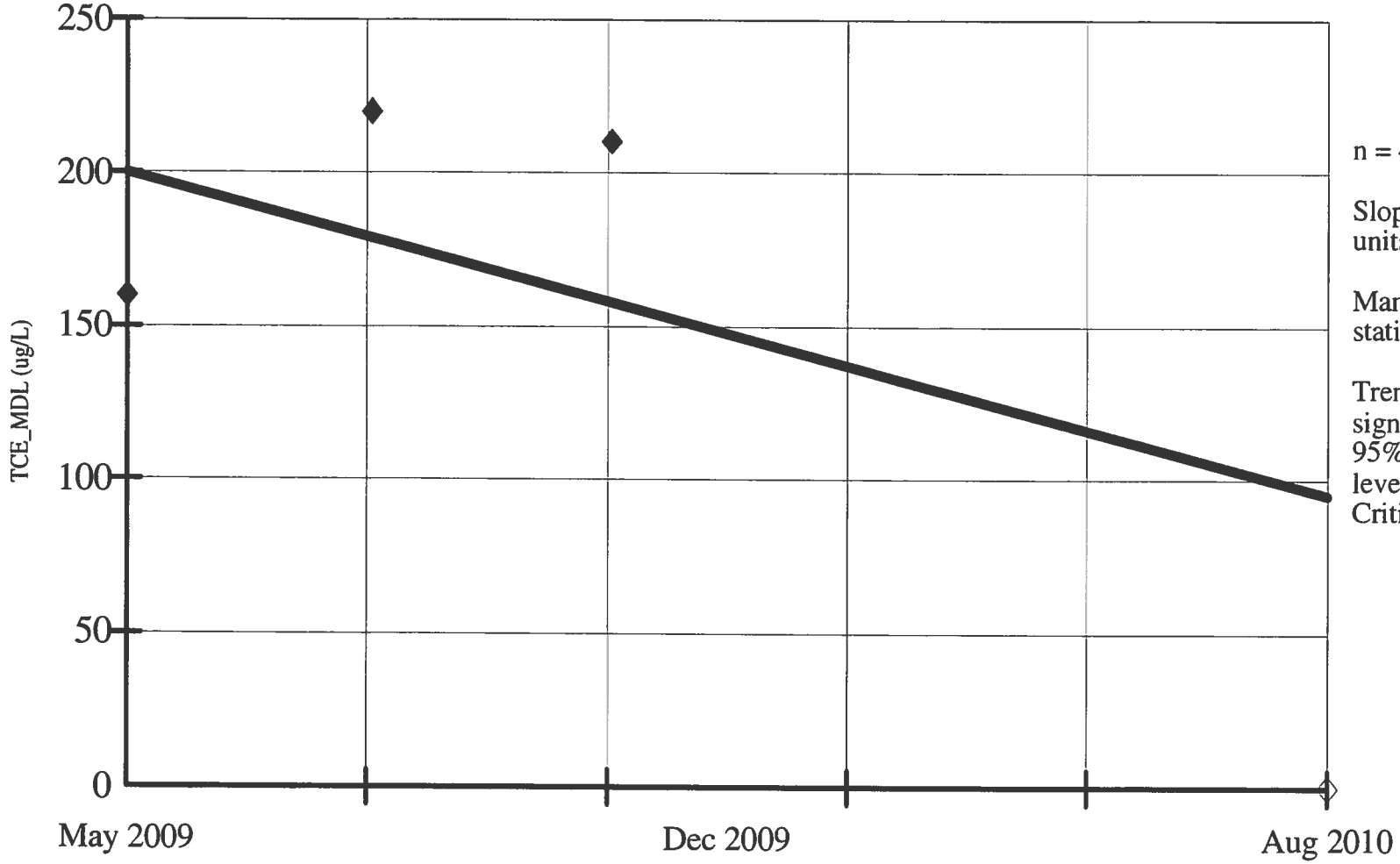
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:51 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-120D



n = 4.

Slope = -85.958 units per year.

Mann Kendall statistic = -2.

Trend not significant at 95% confidence level (two tailed). Critical value = -8.

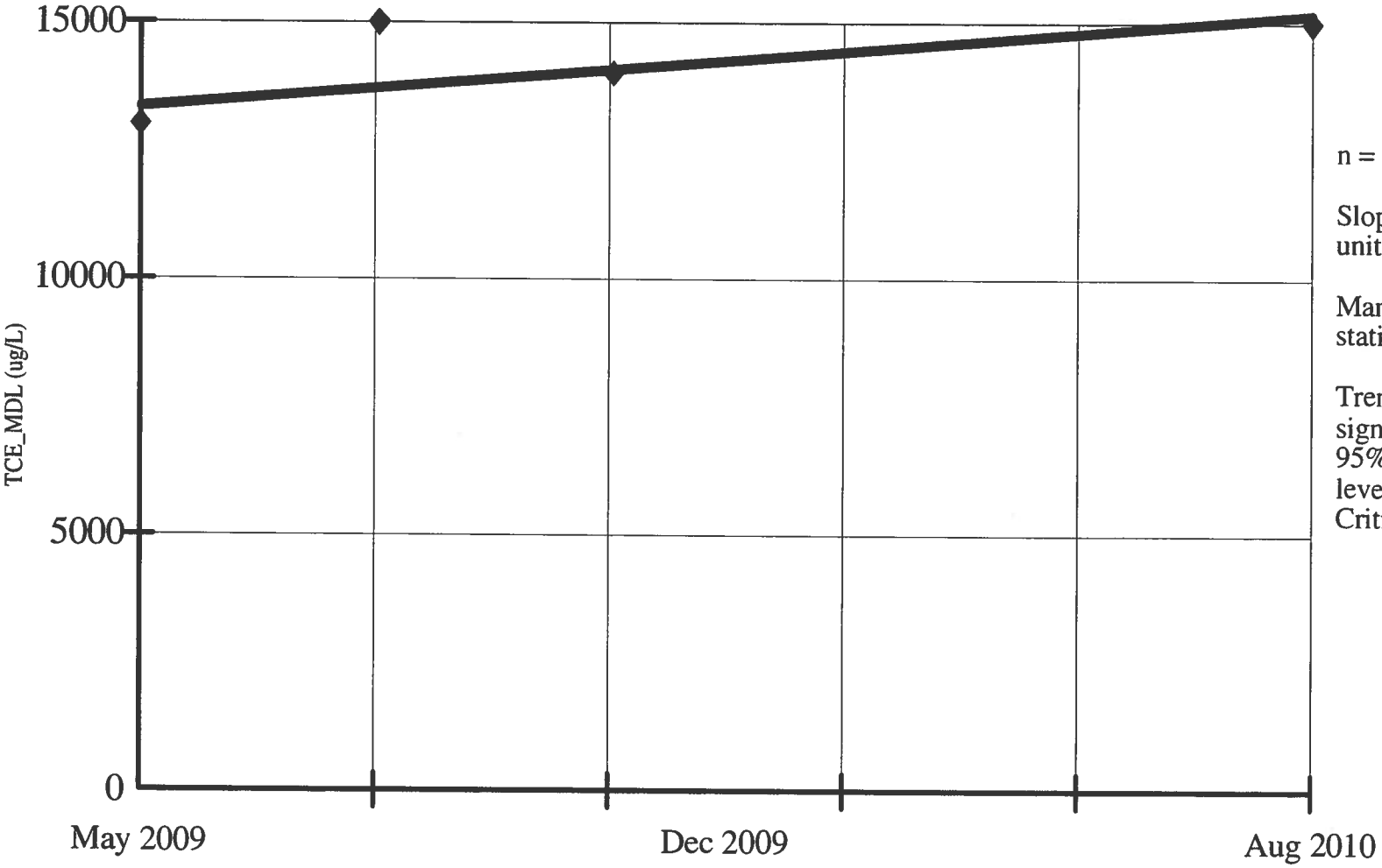
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:51 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-120E



n = 4.

Slope = 1504.348 units per year.

Mann Kendall statistic = 3.

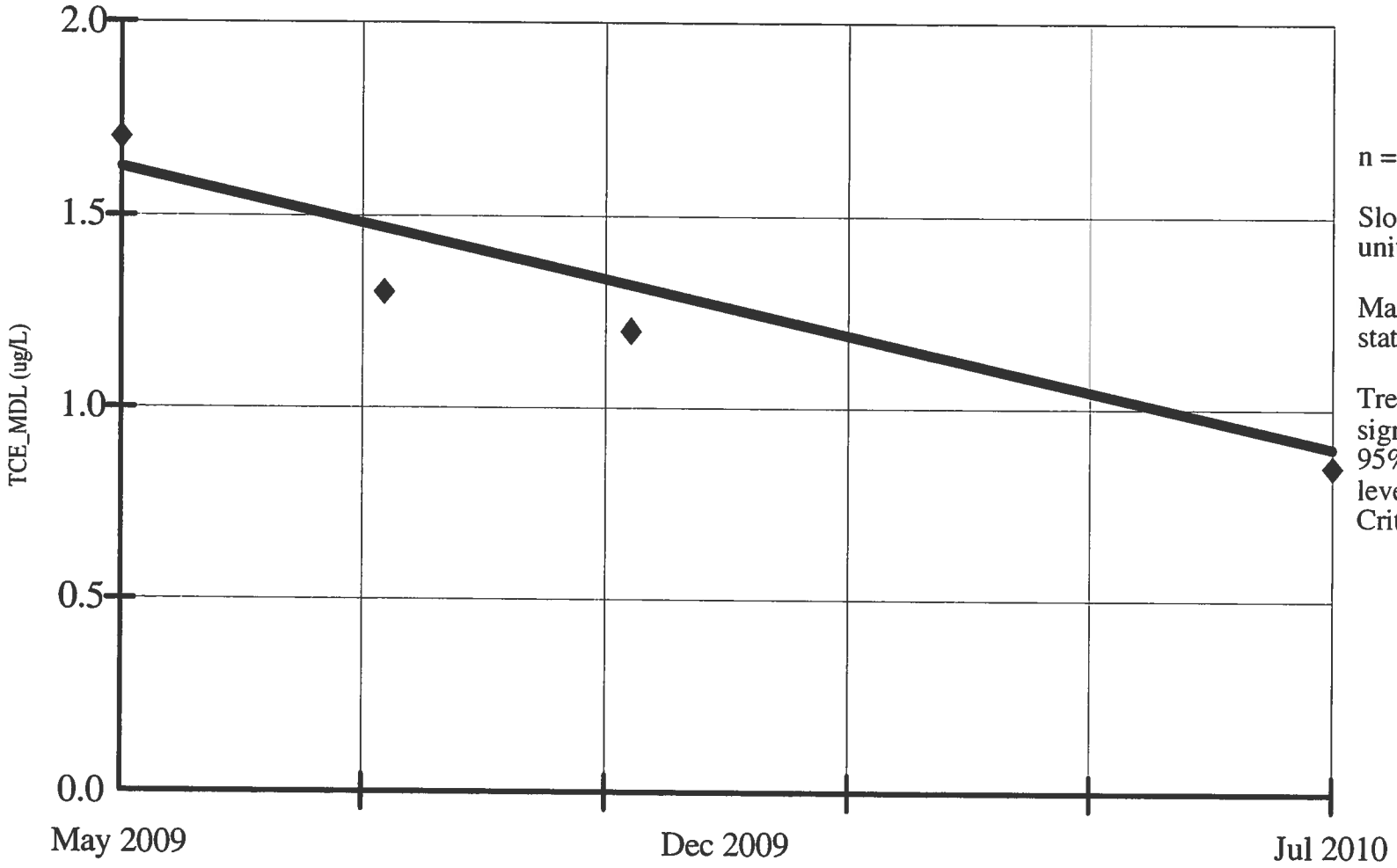
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:51 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-121A



n = 4.

Slope = -0.62 units per year.

Mann Kendall statistic = -6.

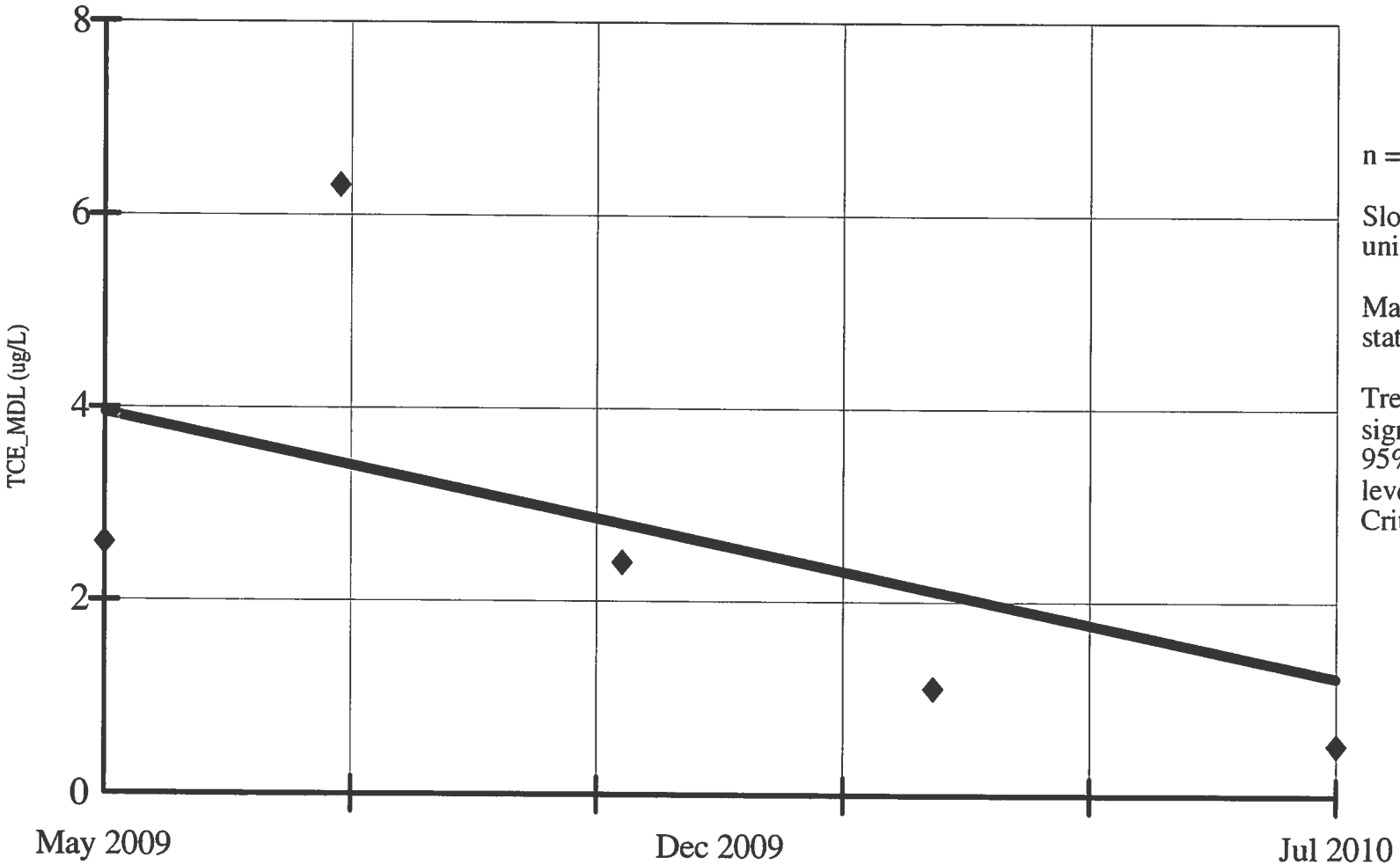
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:51 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-121B



n = 5.

Slope = -2.334 units per year.

Mann Kendall statistic = -8.

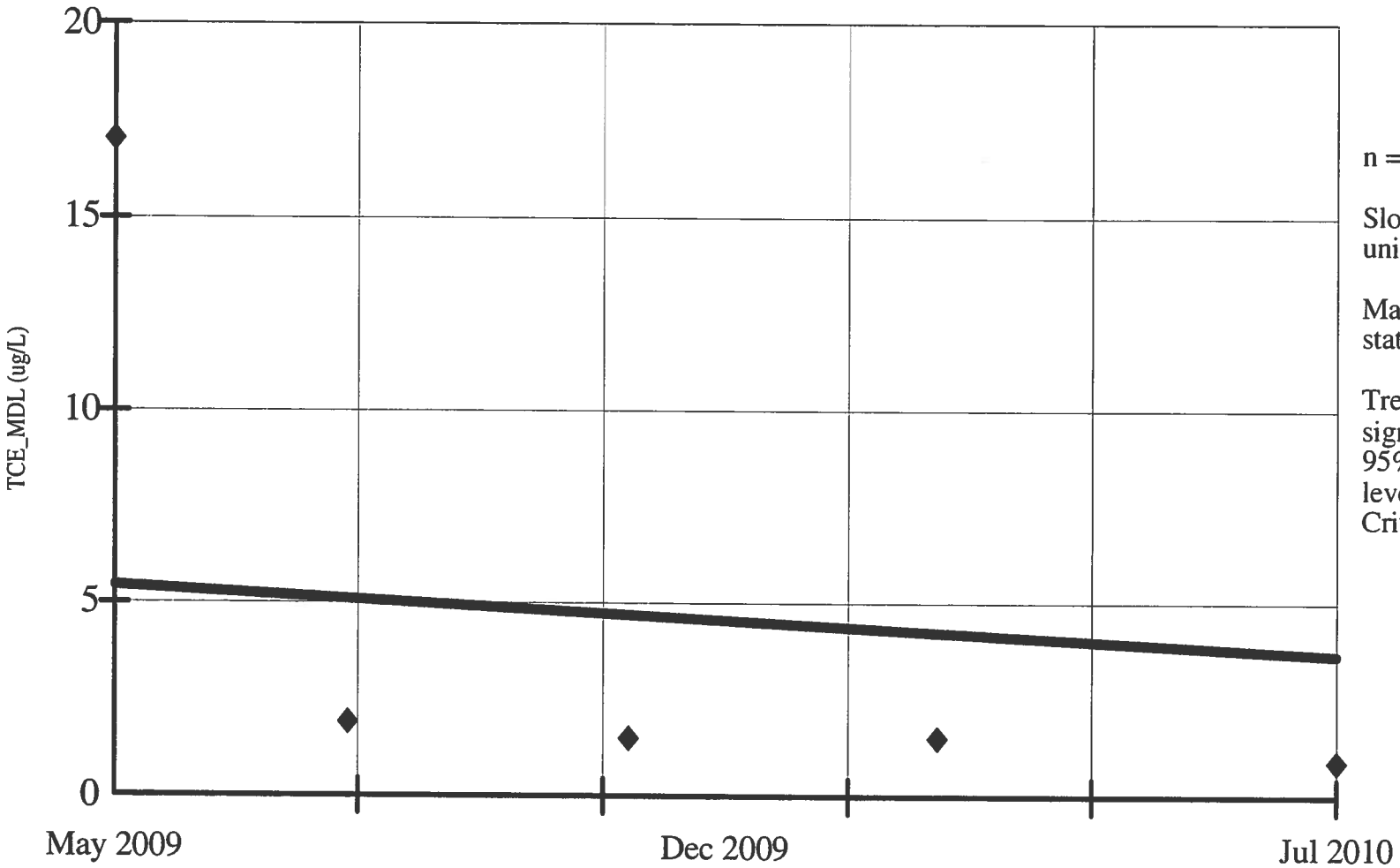
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:51 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-121E



n = 5.

Slope = -1.54 units per year.

Mann Kendall statistic = -9.

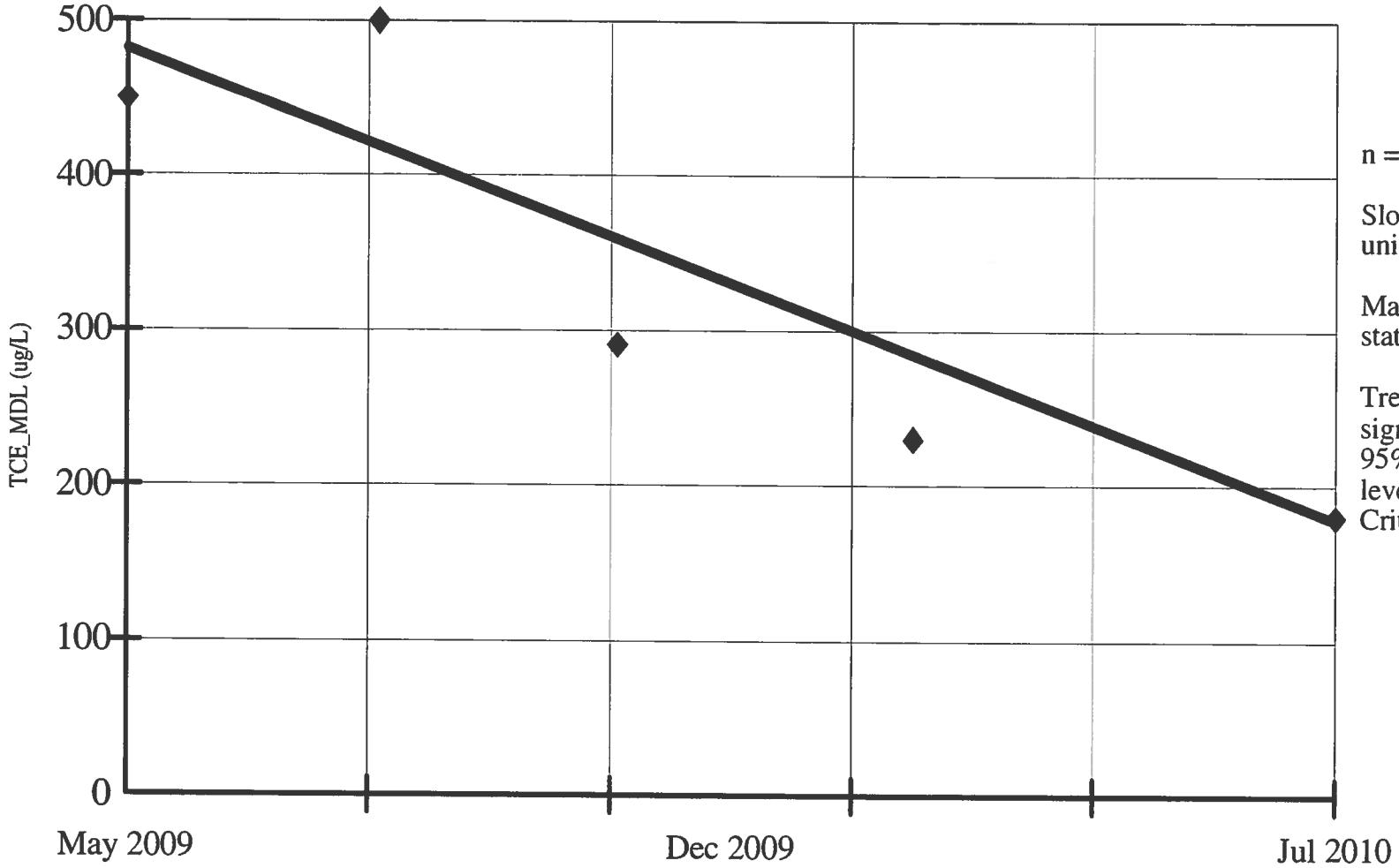
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-122A



n = 5.

Slope = -251.631 units per year.

Mann Kendall statistic = -8.

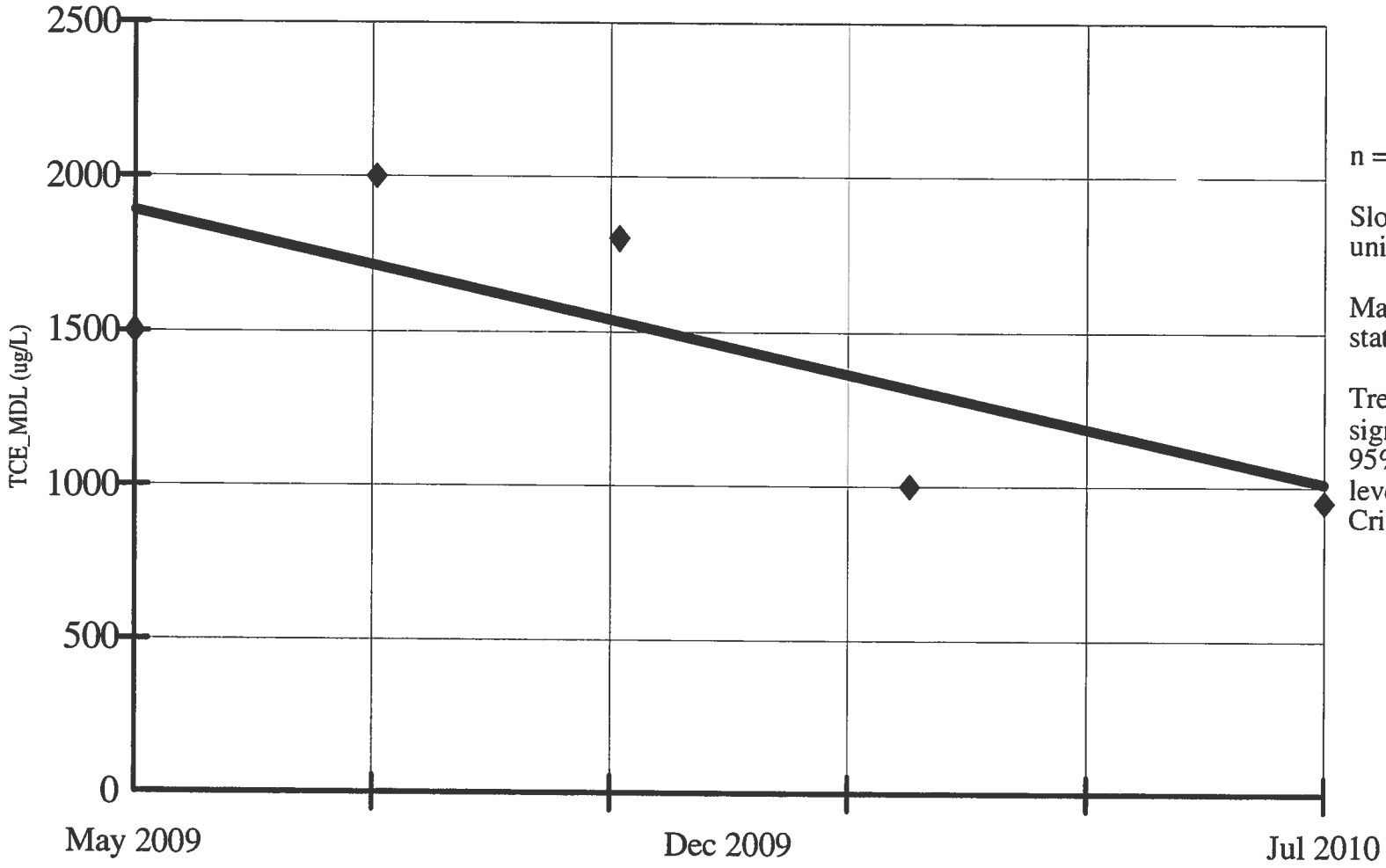
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-122B



n = 5.

Slope = -722.335 units per year.

Mann Kendall statistic = -6.

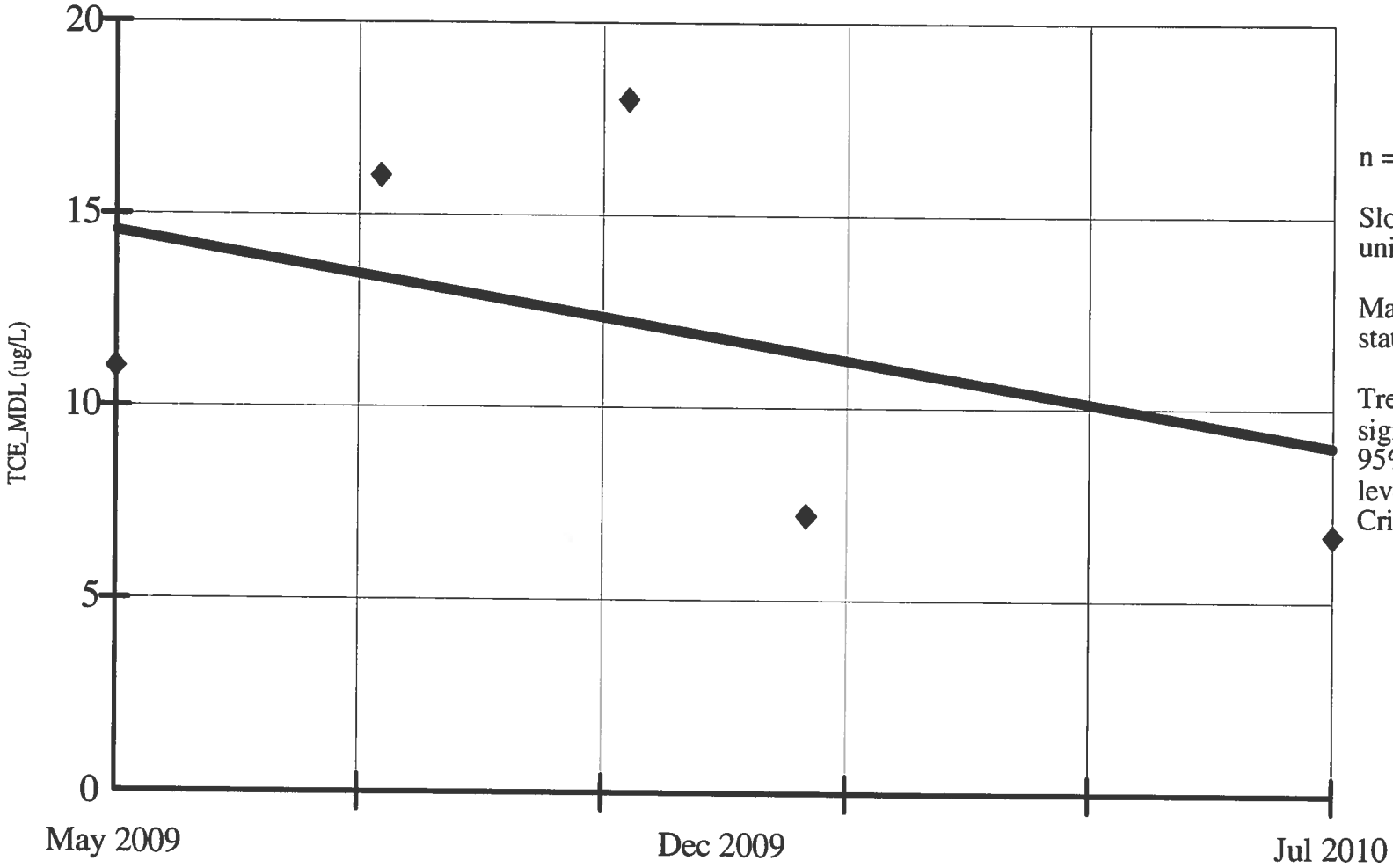
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-123A



n = 5.

Slope = -4.688 units per year.

Mann Kendall statistic = -4.

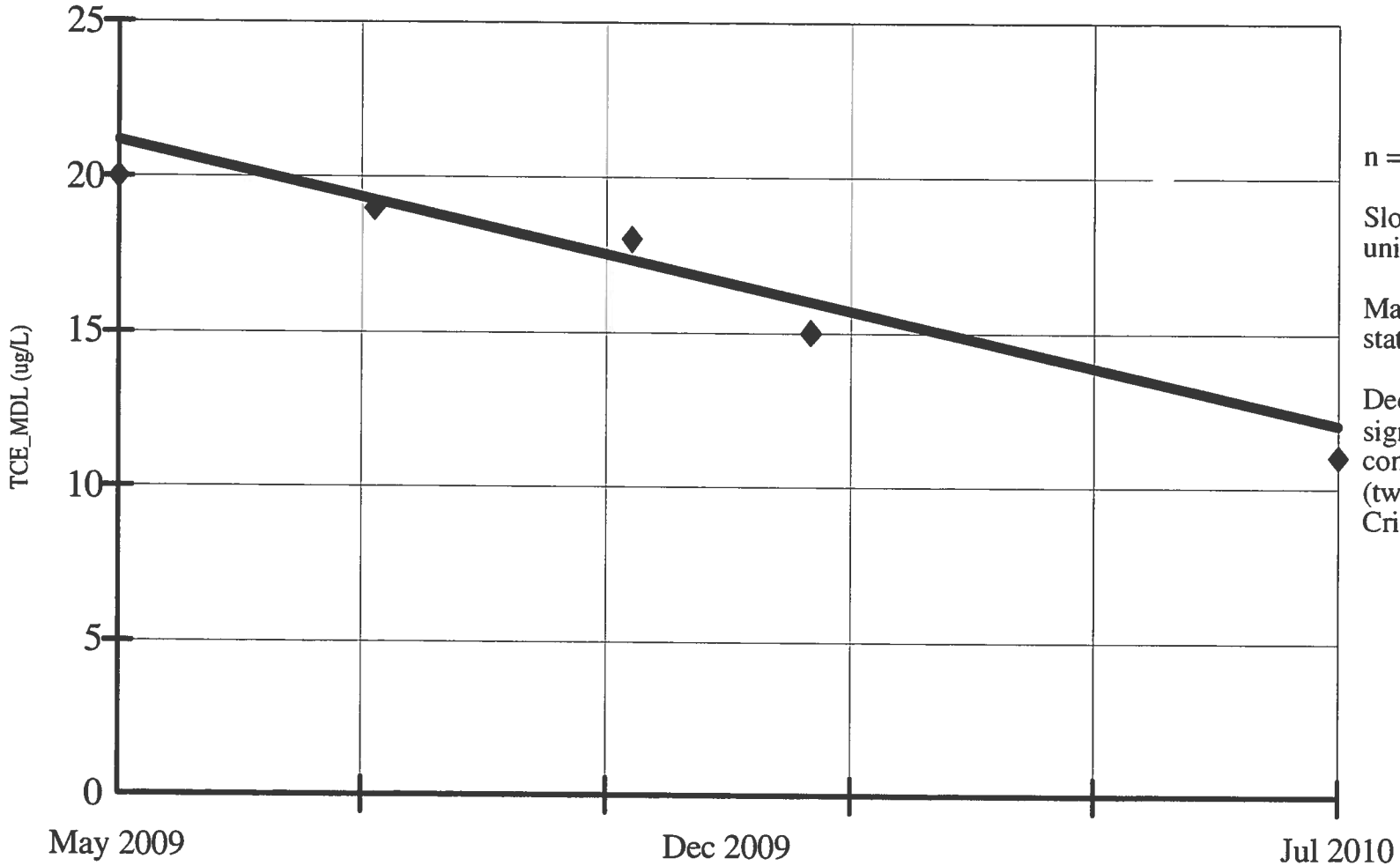
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-123B



n = 5.

Slope = -7.784 units per year.

Mann Kendall statistic = -10.

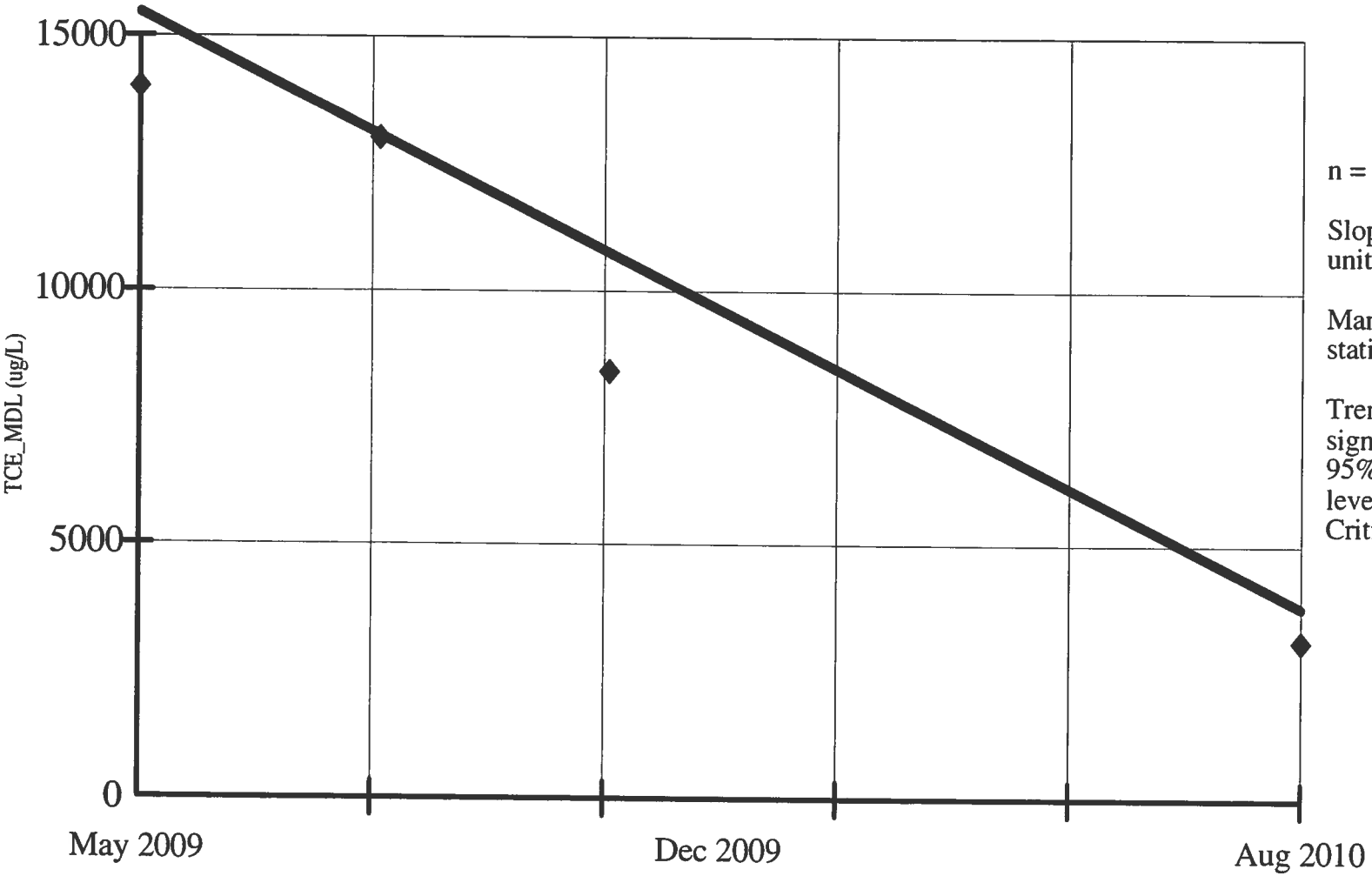
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-124A



n = 4.

Slope = -9588.55 units per year.

Mann Kendall statistic = -6.

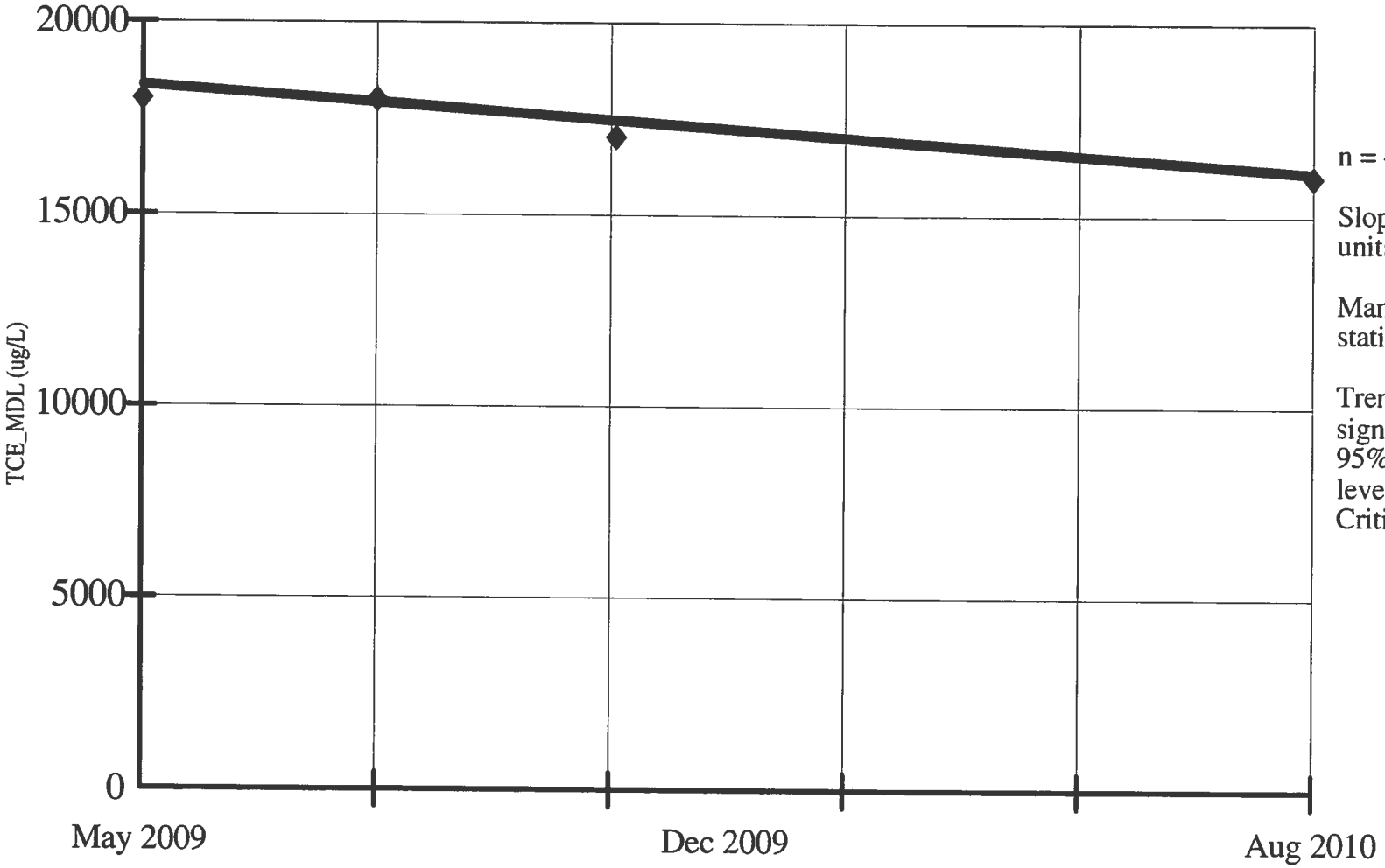
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-124B



n = 4.

Slope = -1834.125 units per year.

Mann Kendall statistic = -5.

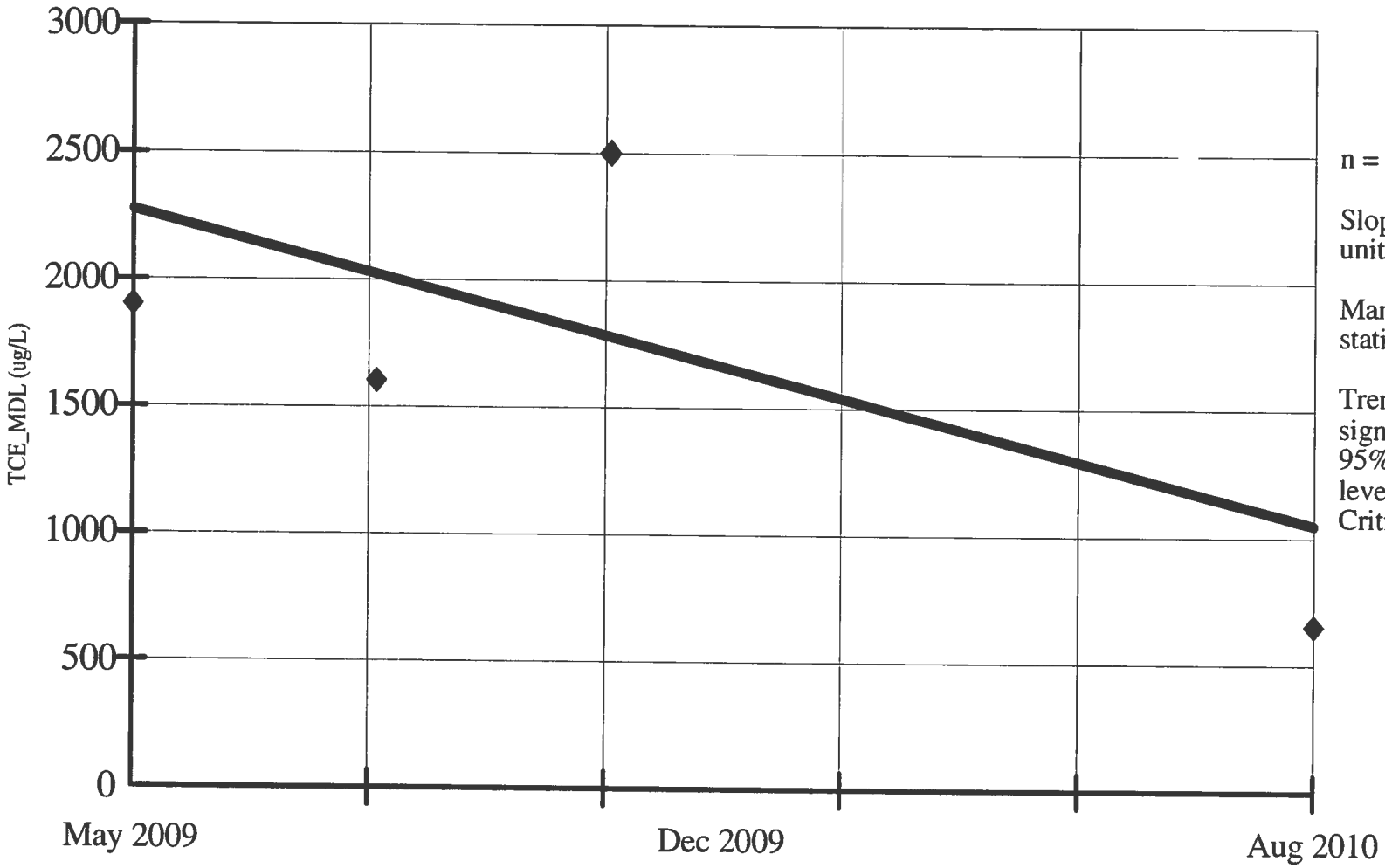
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-124D



n = 4.

Slope = -1001.378 units per year.

Mann Kendall statistic = -2.

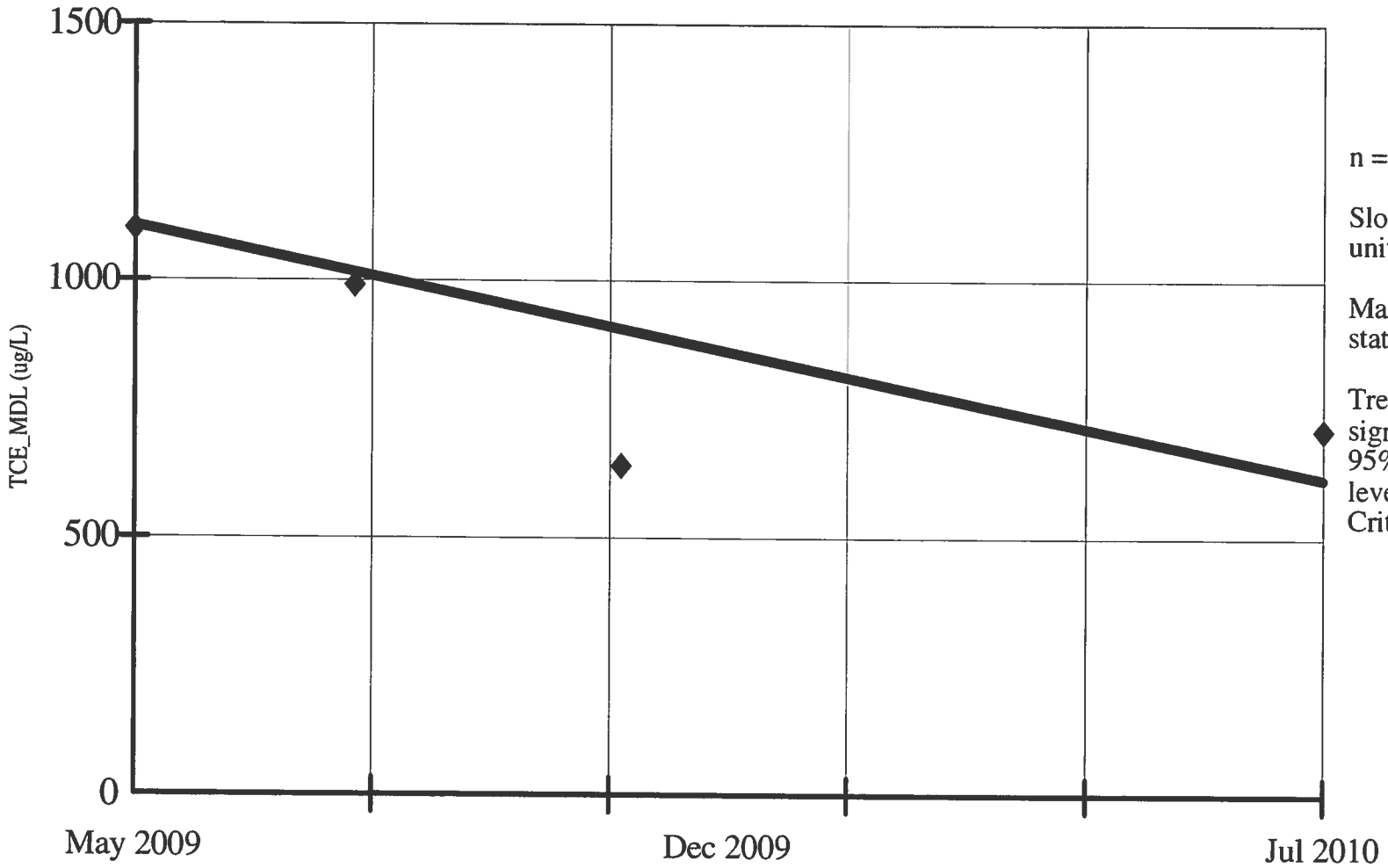
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-125A



n = 4.

Slope = -405.771 units per year.

Mann Kendall statistic = -4.

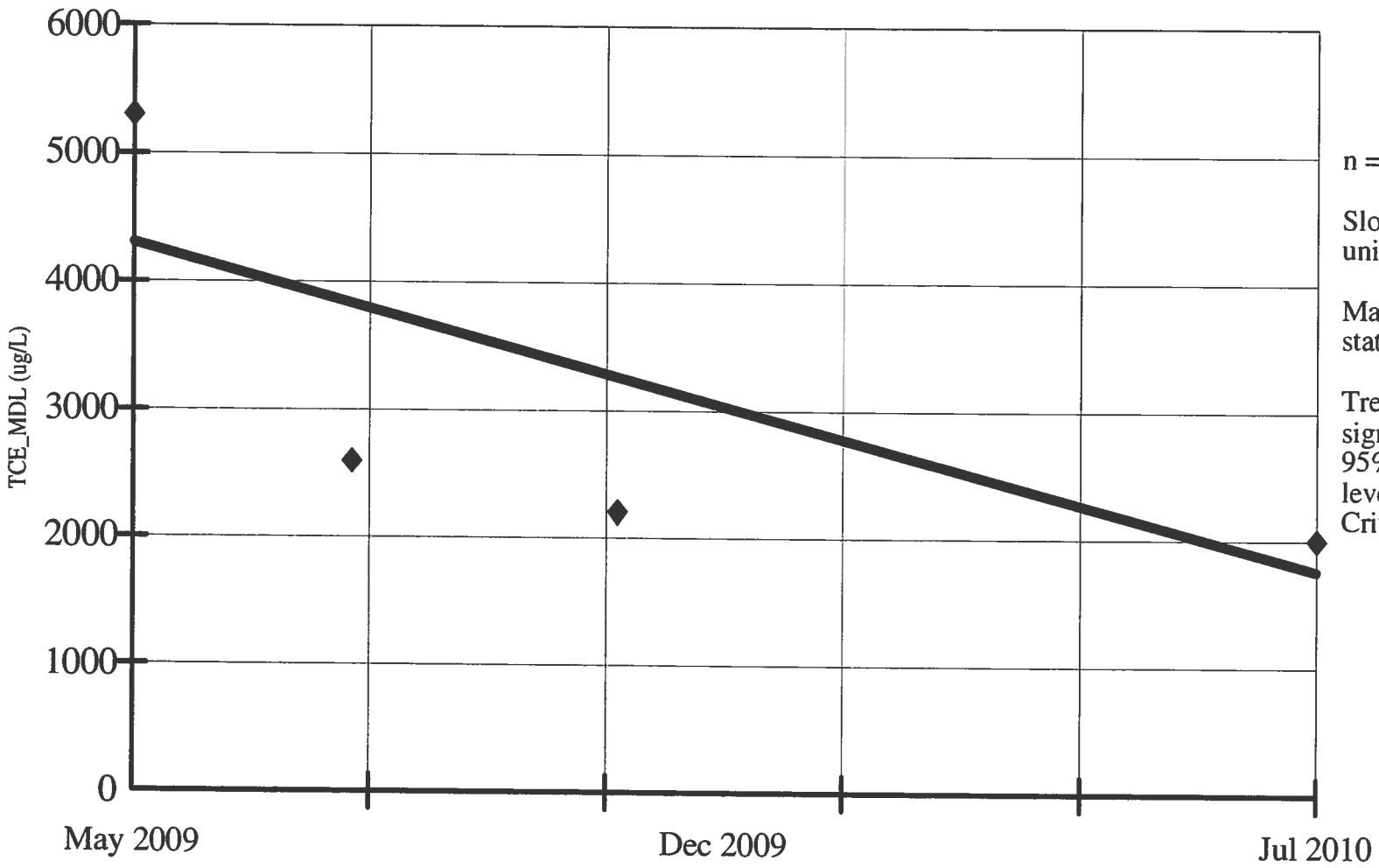
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-125B



n = 4.

Slope = -2099.845 units per year.

Mann Kendall statistic = -6.

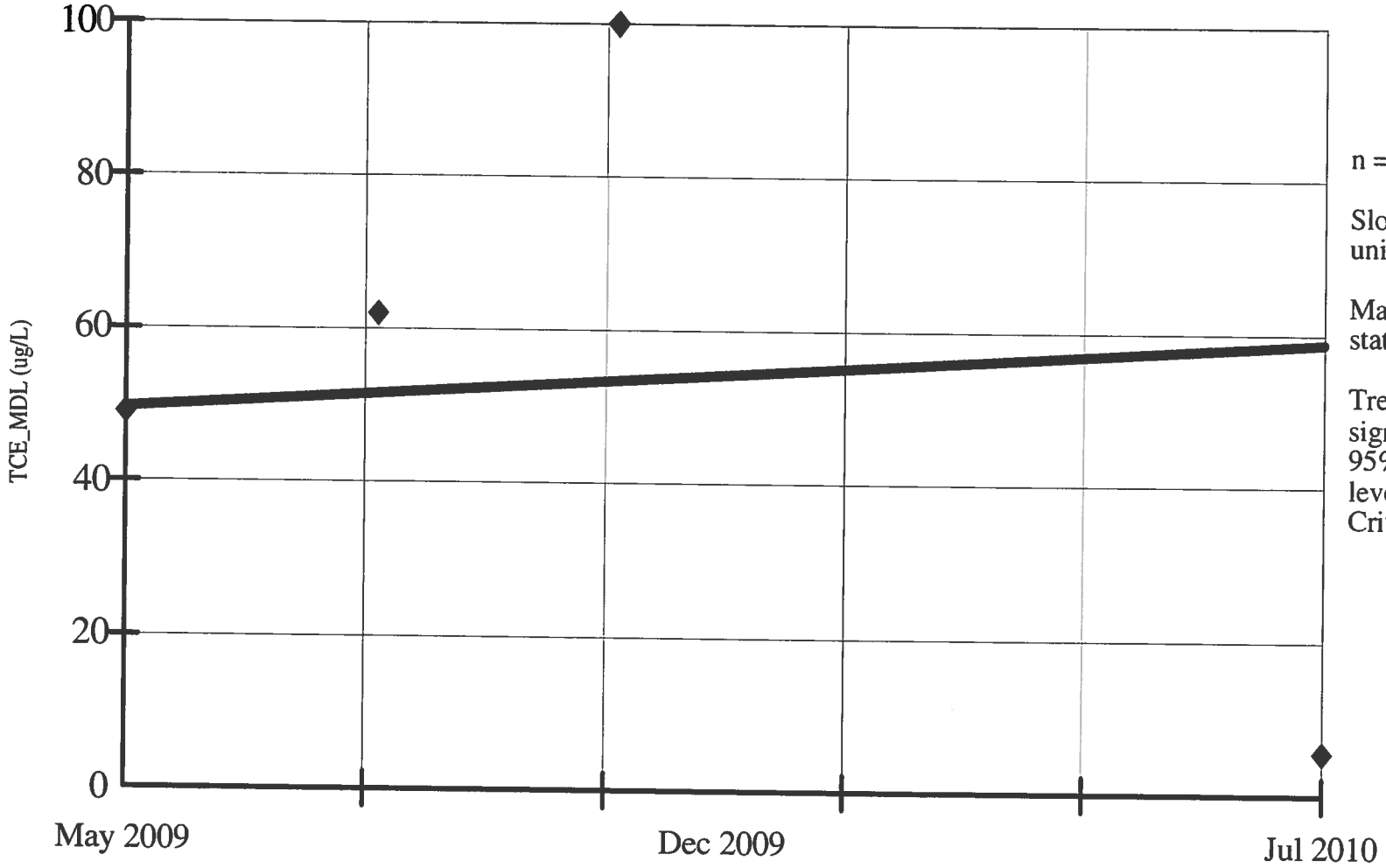
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-125D



n = 4.

Slope = 7.552 units per year.

Mann Kendall statistic = 0.

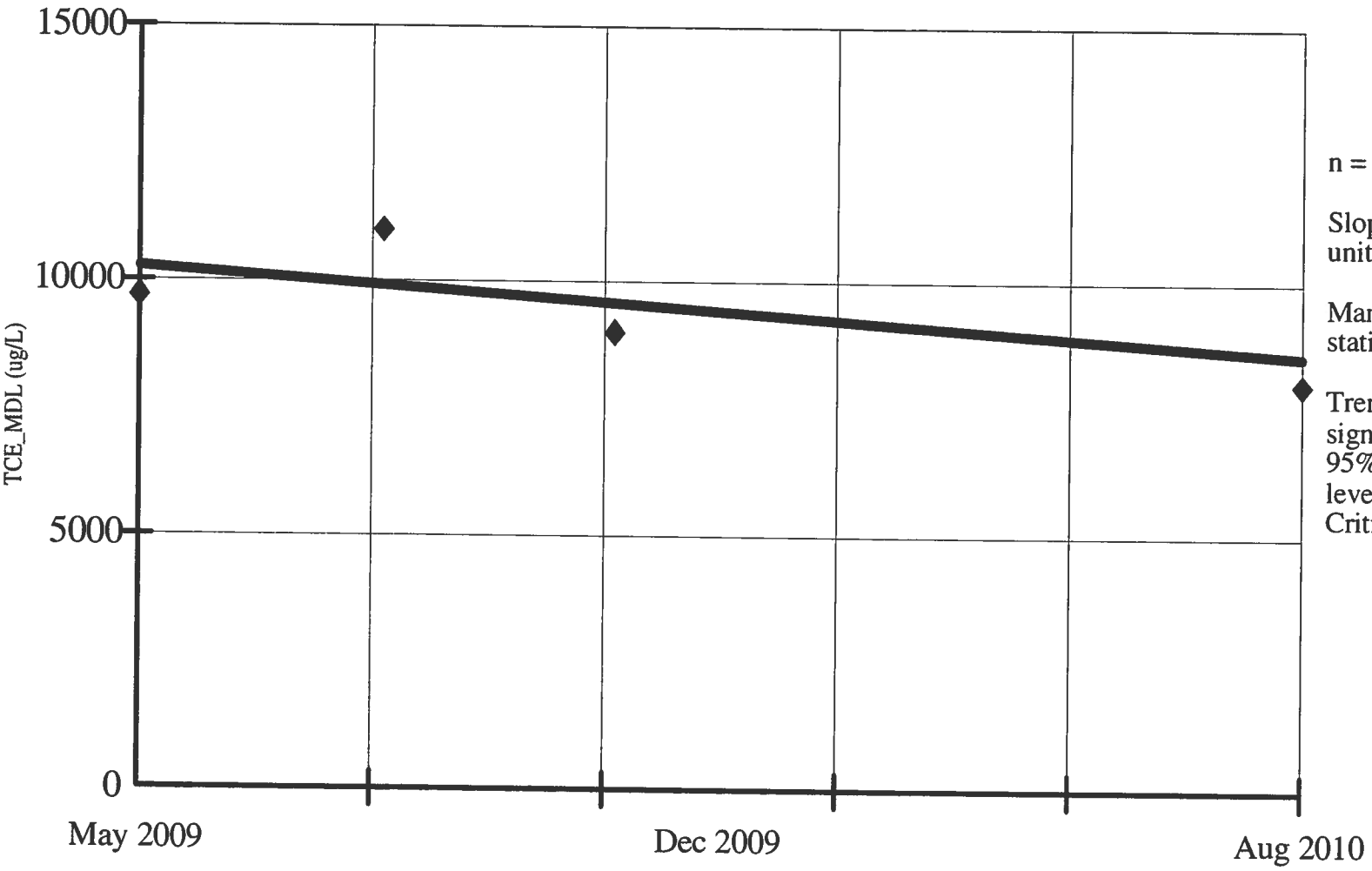
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-126A



n = 4.

Slope = -1390.65 units per year.

Mann Kendall statistic = -4.

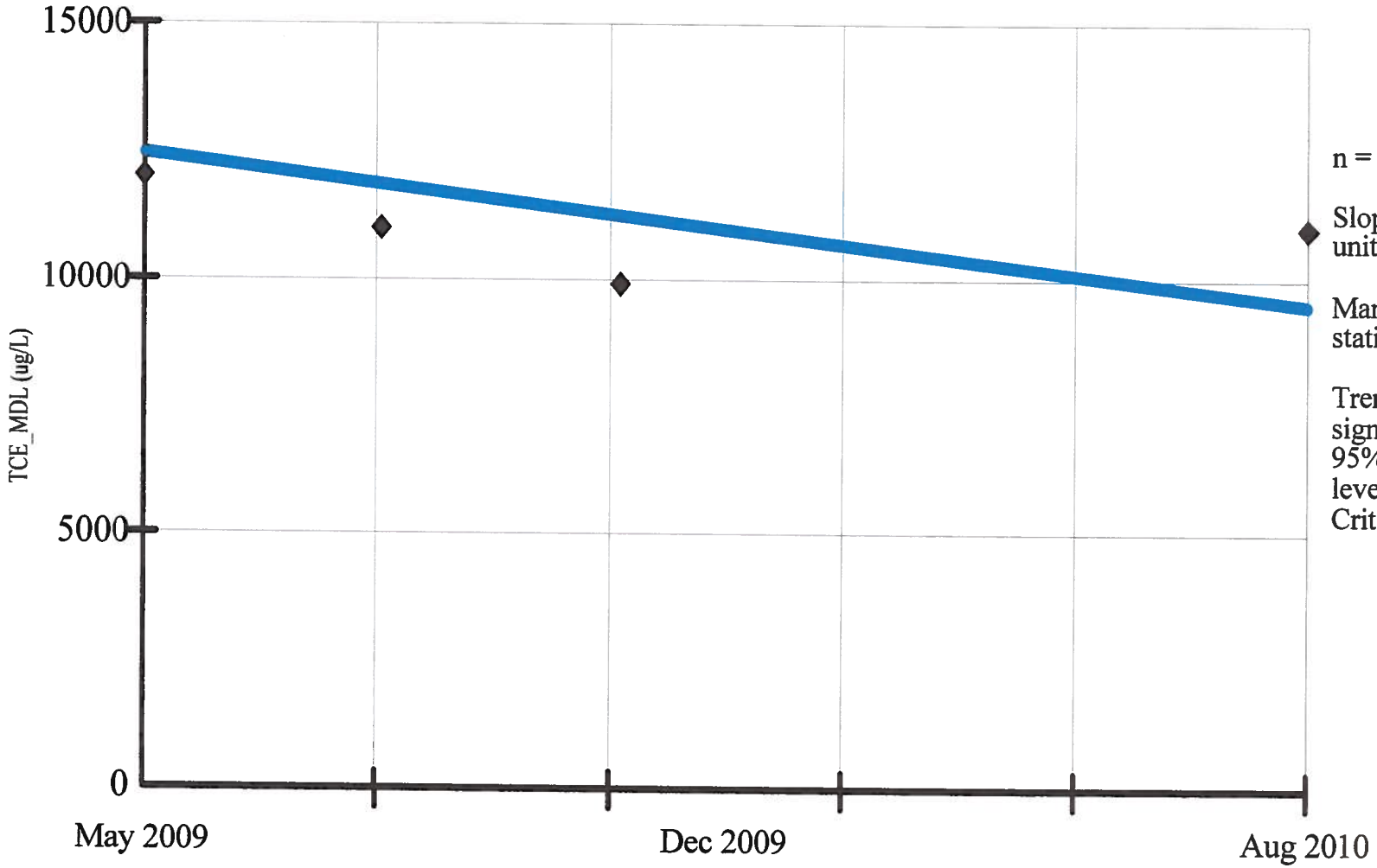
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:52 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-126B



n = 4.

Slope = -2413.015 units per year.

Mann Kendall statistic = -3.

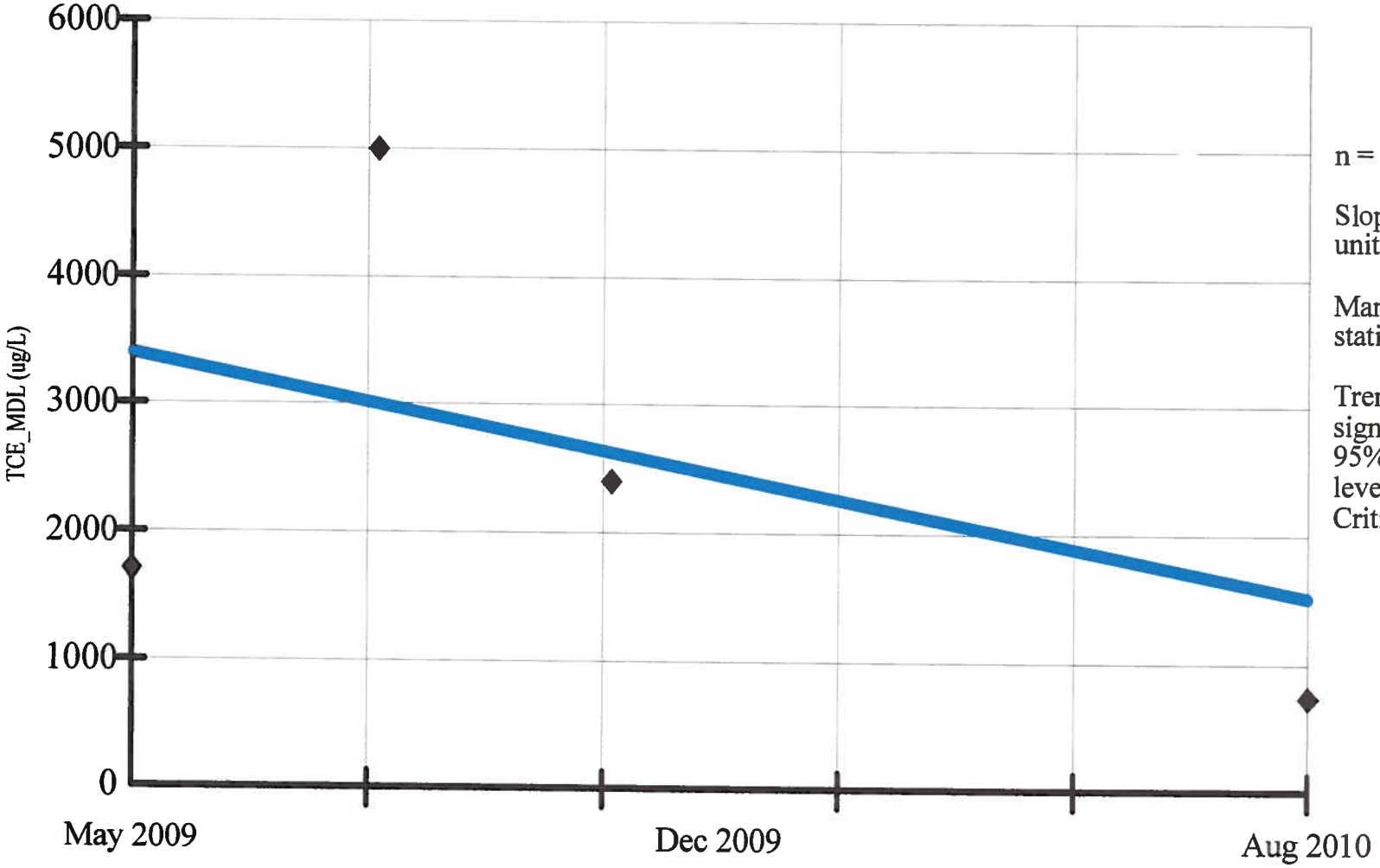
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:37 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-126D



n = 4.

Slope = -1535.19 units per year.

Mann Kendall statistic = -2.

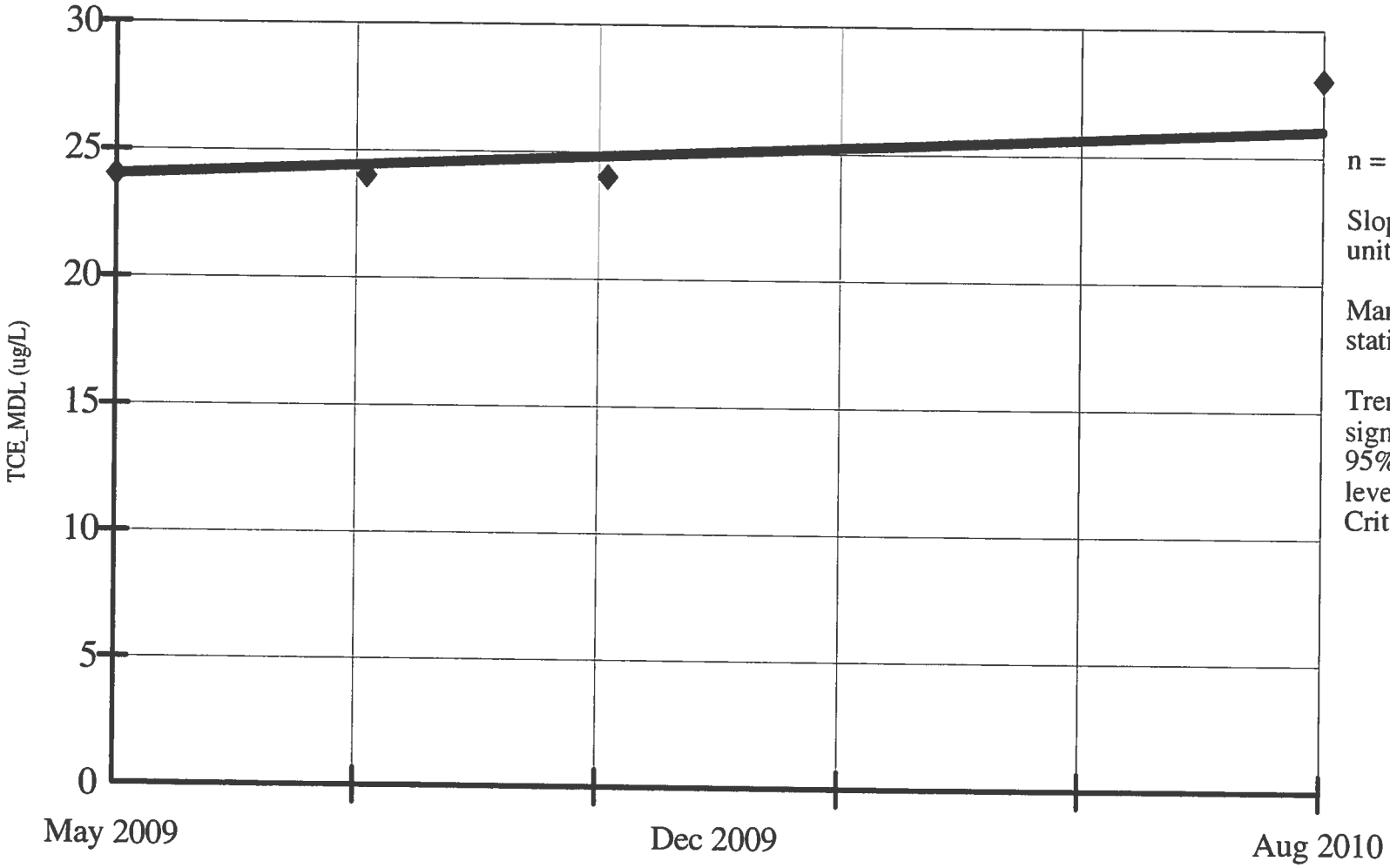
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:37 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-127A



n = 4.

Slope = 1.633 units per year.

Mann Kendall statistic = 3.

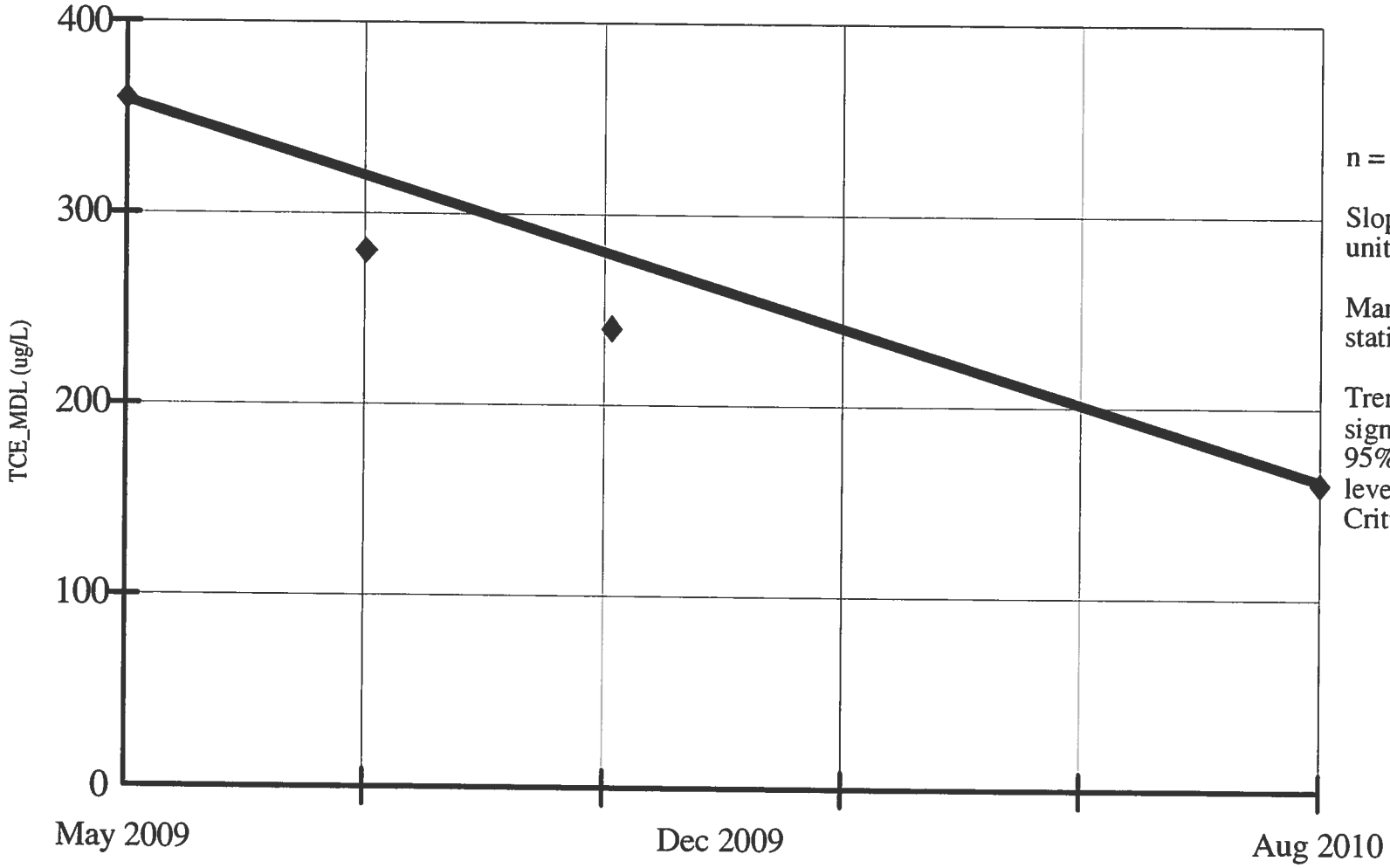
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:53 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-127B



n = 4.

Slope = -161.002 units per year.

Mann Kendall statistic = -6.

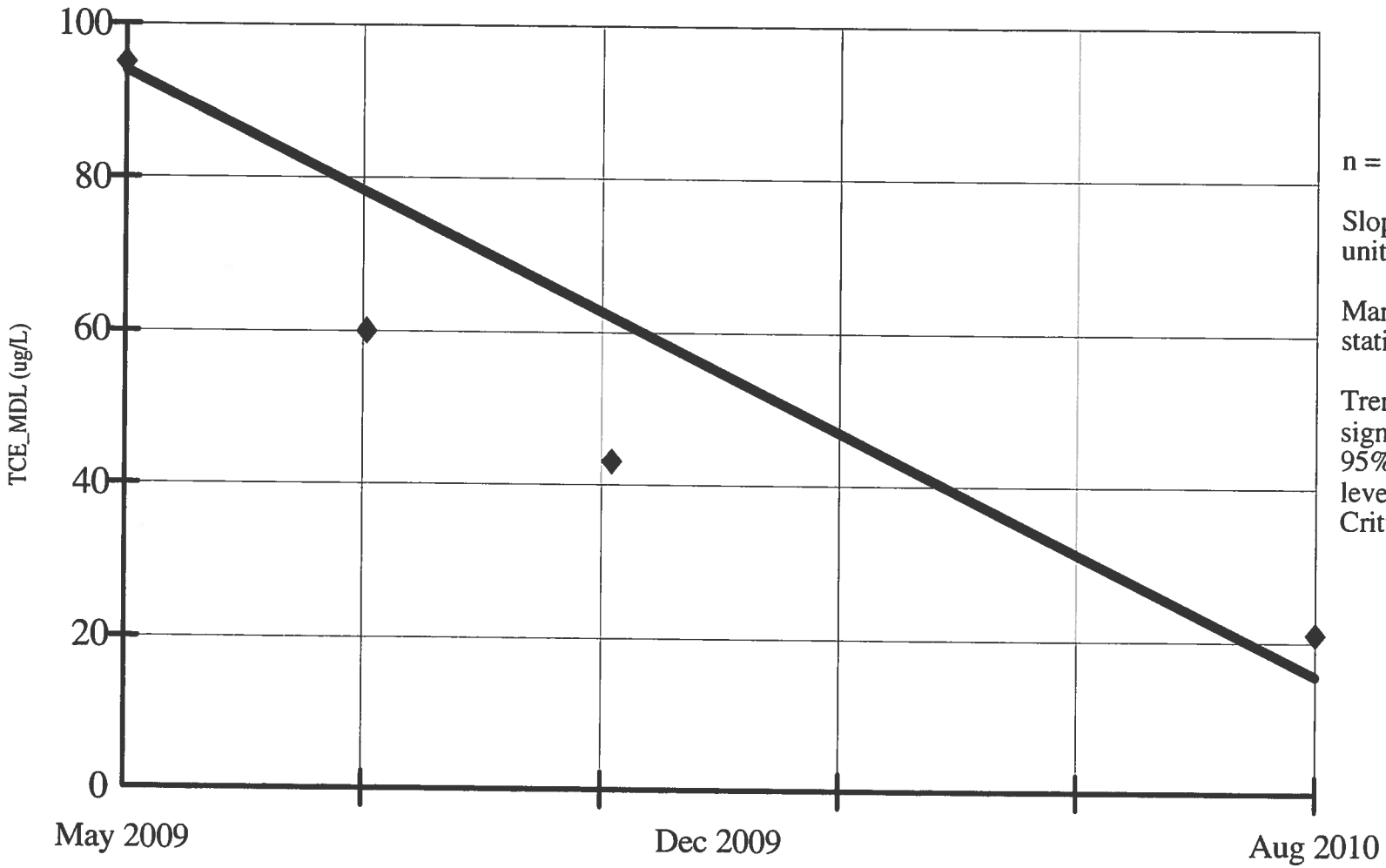
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:53 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-127E



n = 4.

Slope = -63.875 units per year.

Mann Kendall statistic = -6.

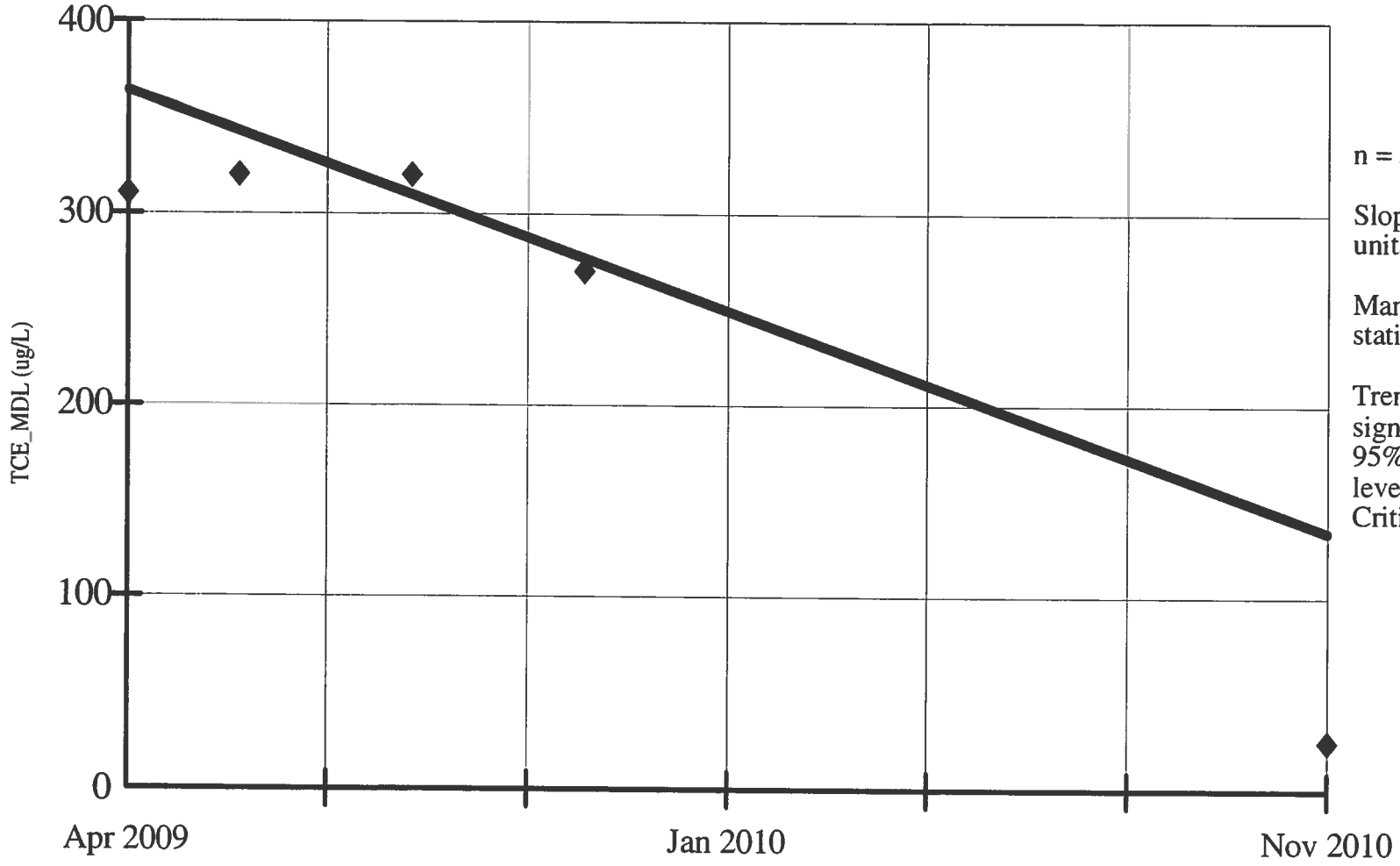
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:53 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-133A



n = 5.

Slope = -143.372 units per year.

Mann Kendall statistic = -5.

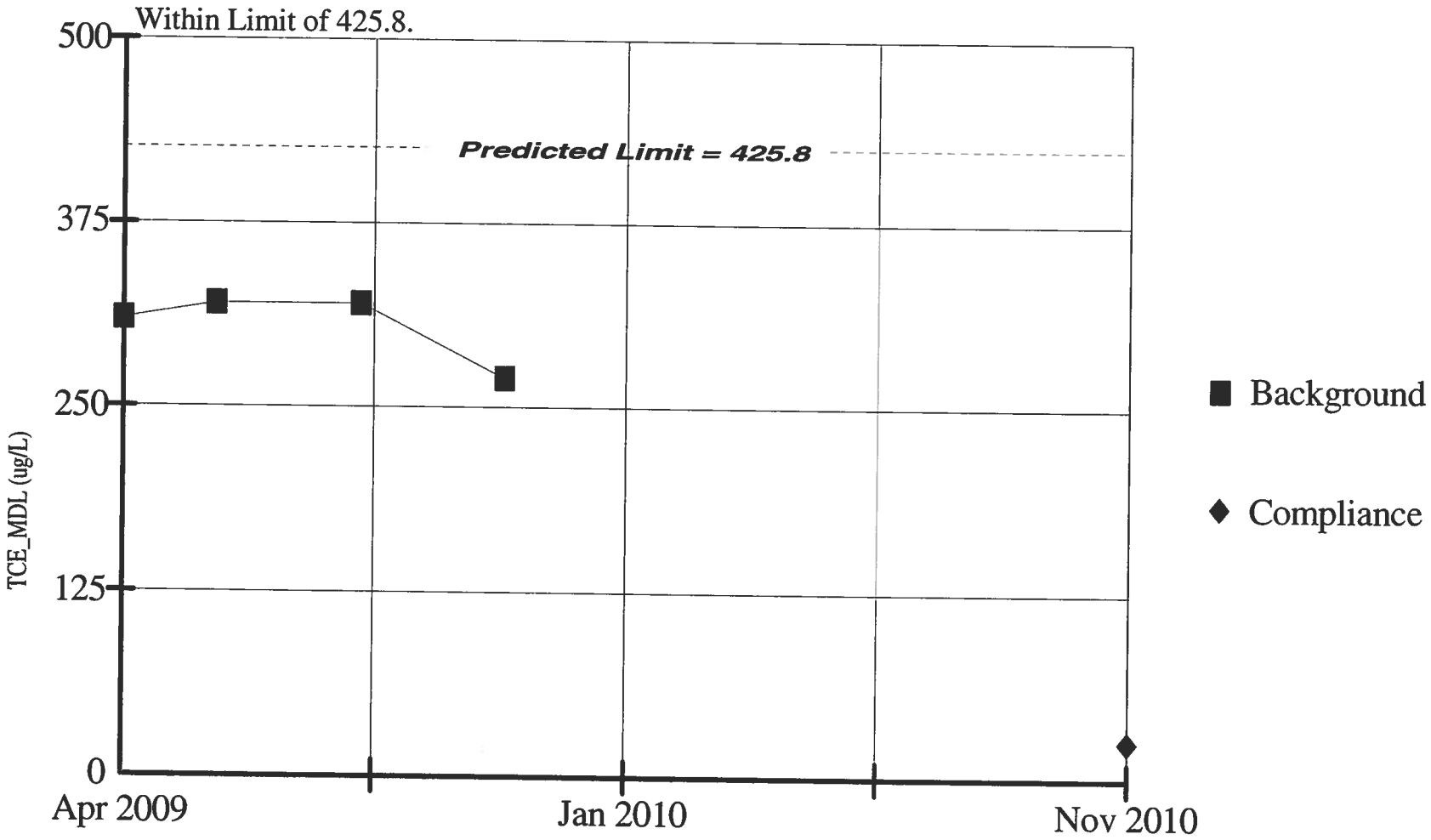
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:54 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-133A



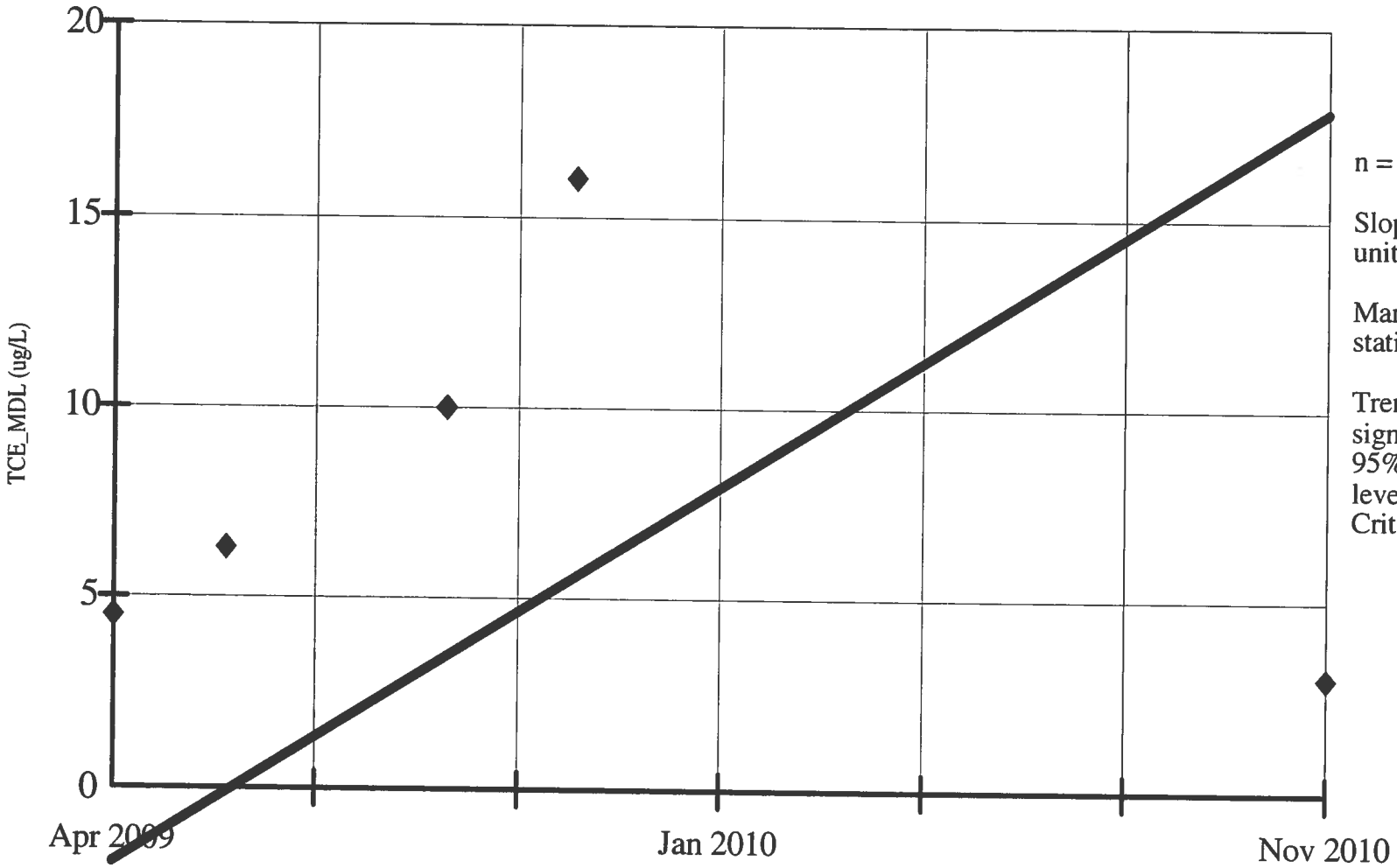
Background Data Summary: Mean=305, Std. Dev=23.81, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.7639, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:26 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-133B



n = 5.

Slope = 12.357 units per year.

Mann Kendall statistic = 2.

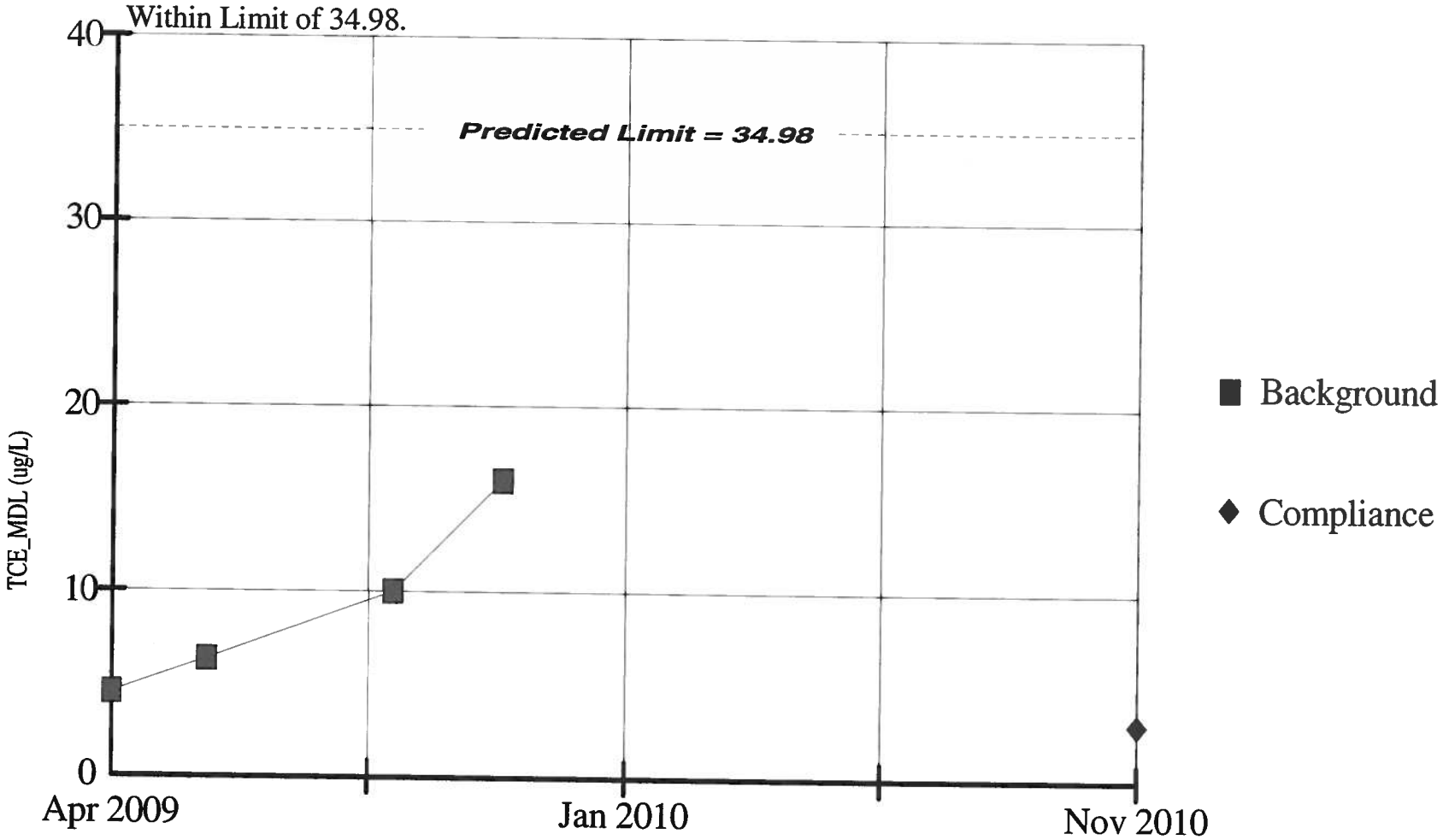
Trend not significant at 95% confidence level (two tailed). Critical value = 10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:54 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-133B



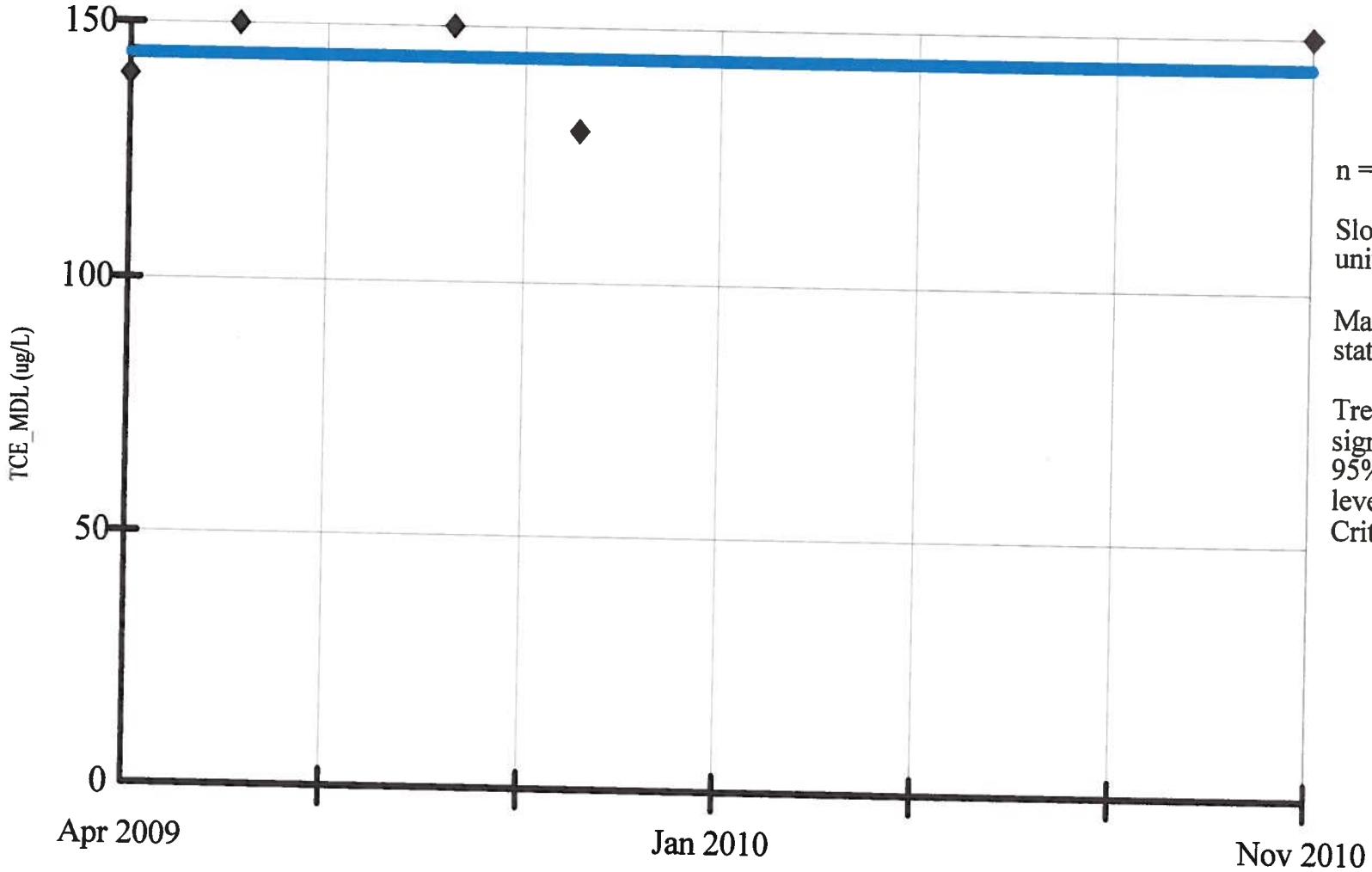
Background Data Summary: Mean=9.2, Std. Dev=5.079, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9388, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:26 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-133D



n = 5.

Slope = 0
units per year.

Mann Kendall
statistic = 1.

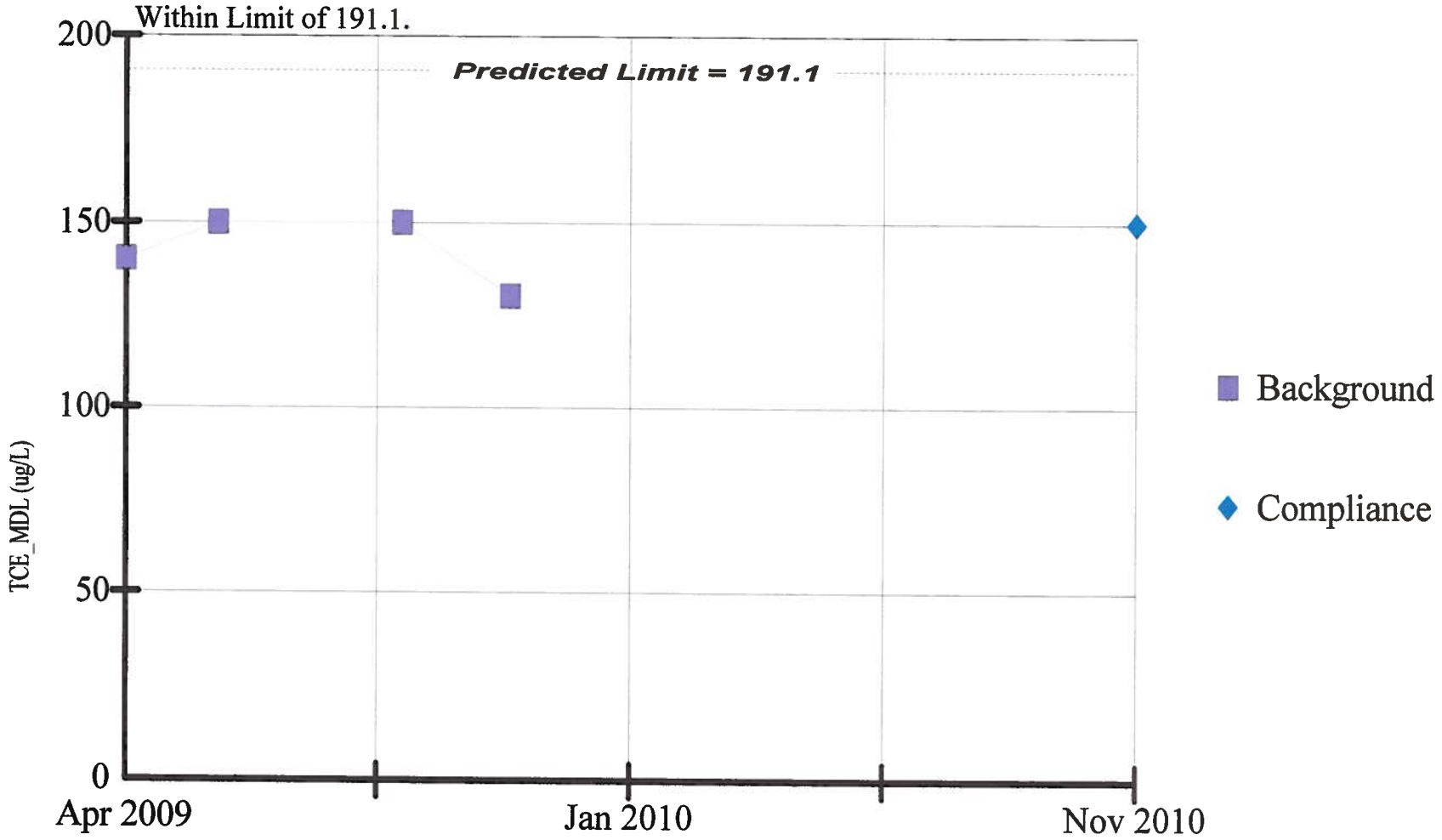
Trend not
significant at
95% confidence
level (two tailed).
Critical value = 10.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:09 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-133D



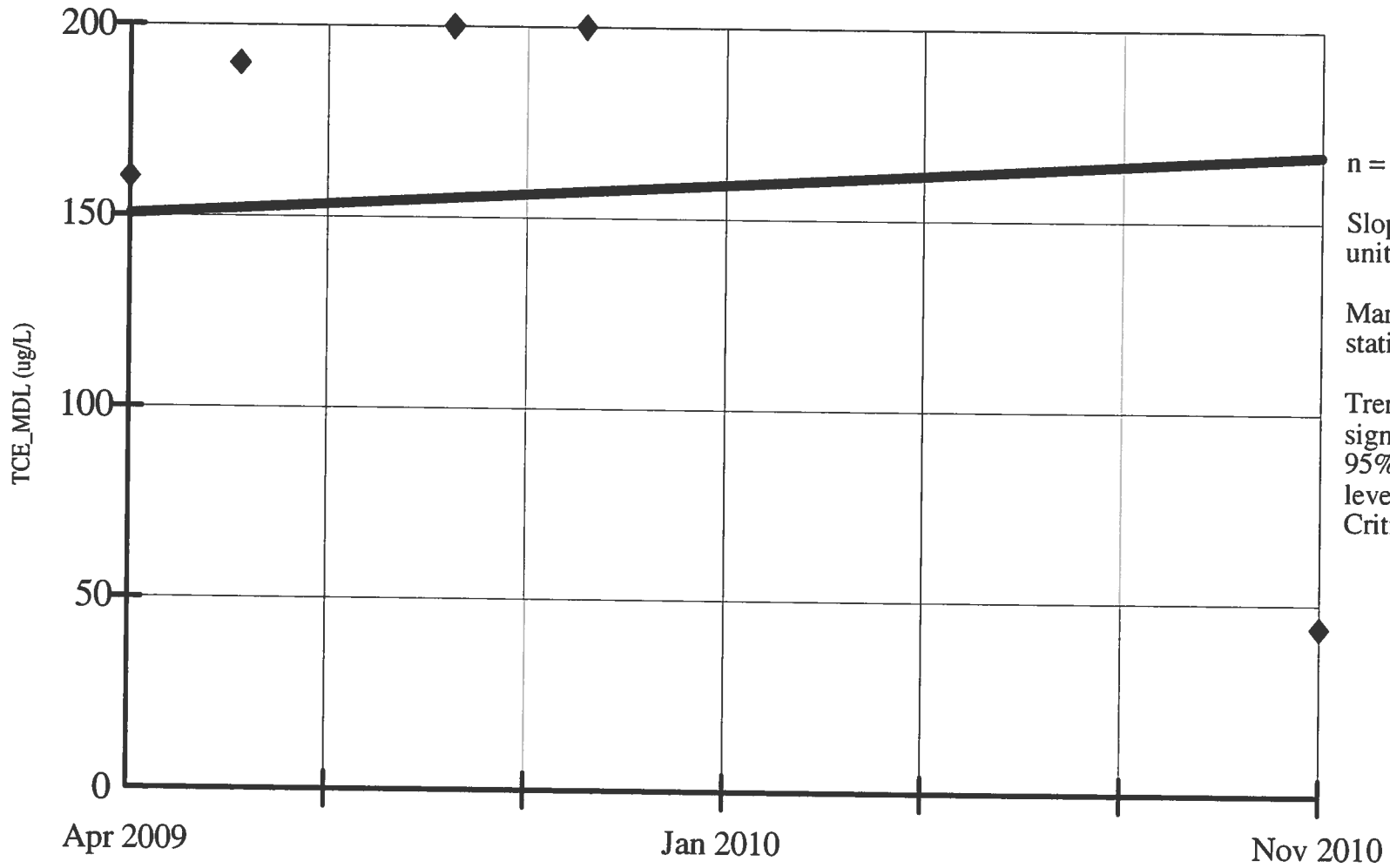
Background Data Summary: Mean=142.5, Std. Dev=9.574, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8648, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:43 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-134A



n = 5.

Slope = 10.735 units per year.

Mann Kendall statistic = 1.

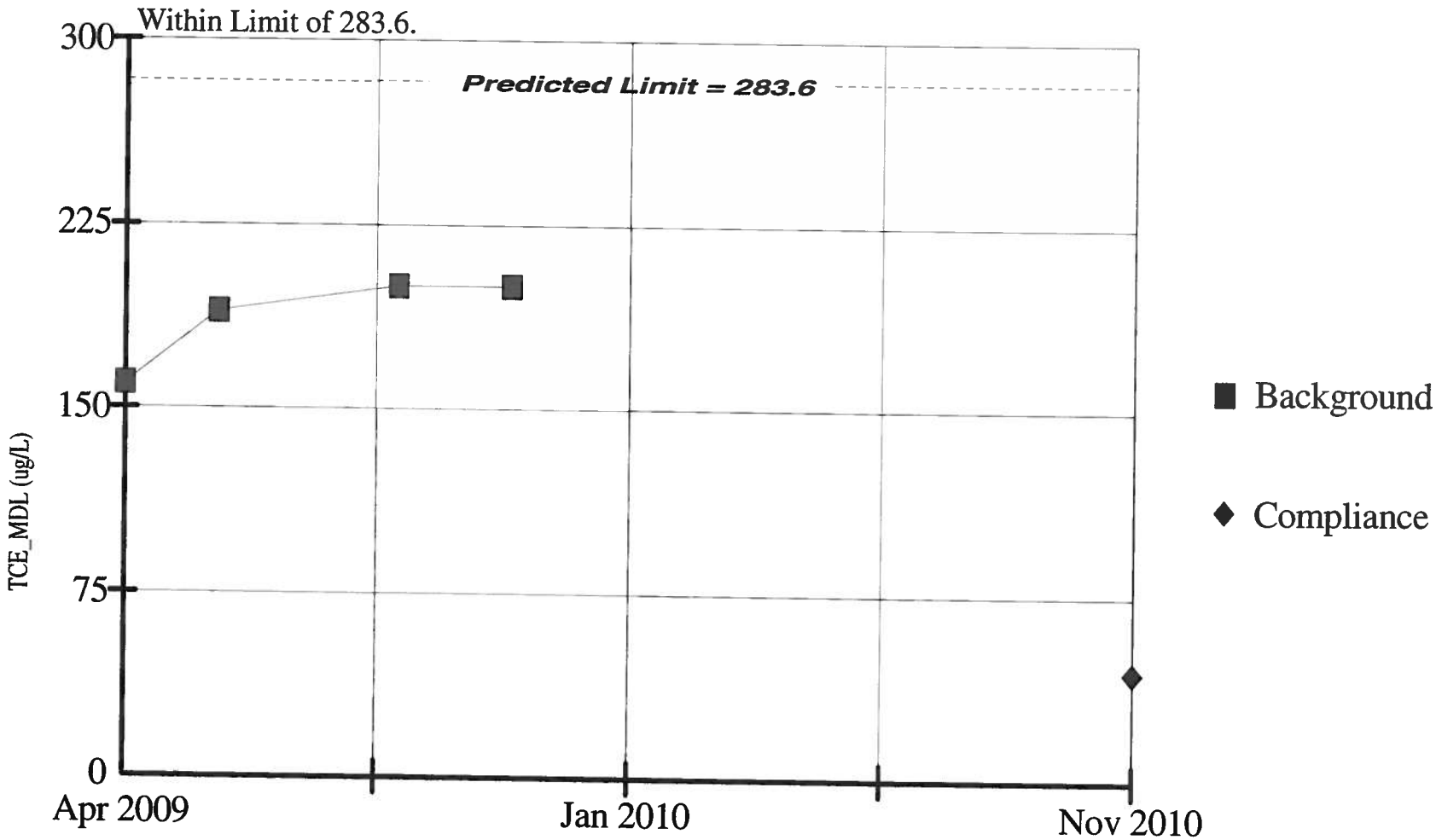
Trend not significant at 95% confidence level (two tailed). Critical value = 10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:54 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-134A



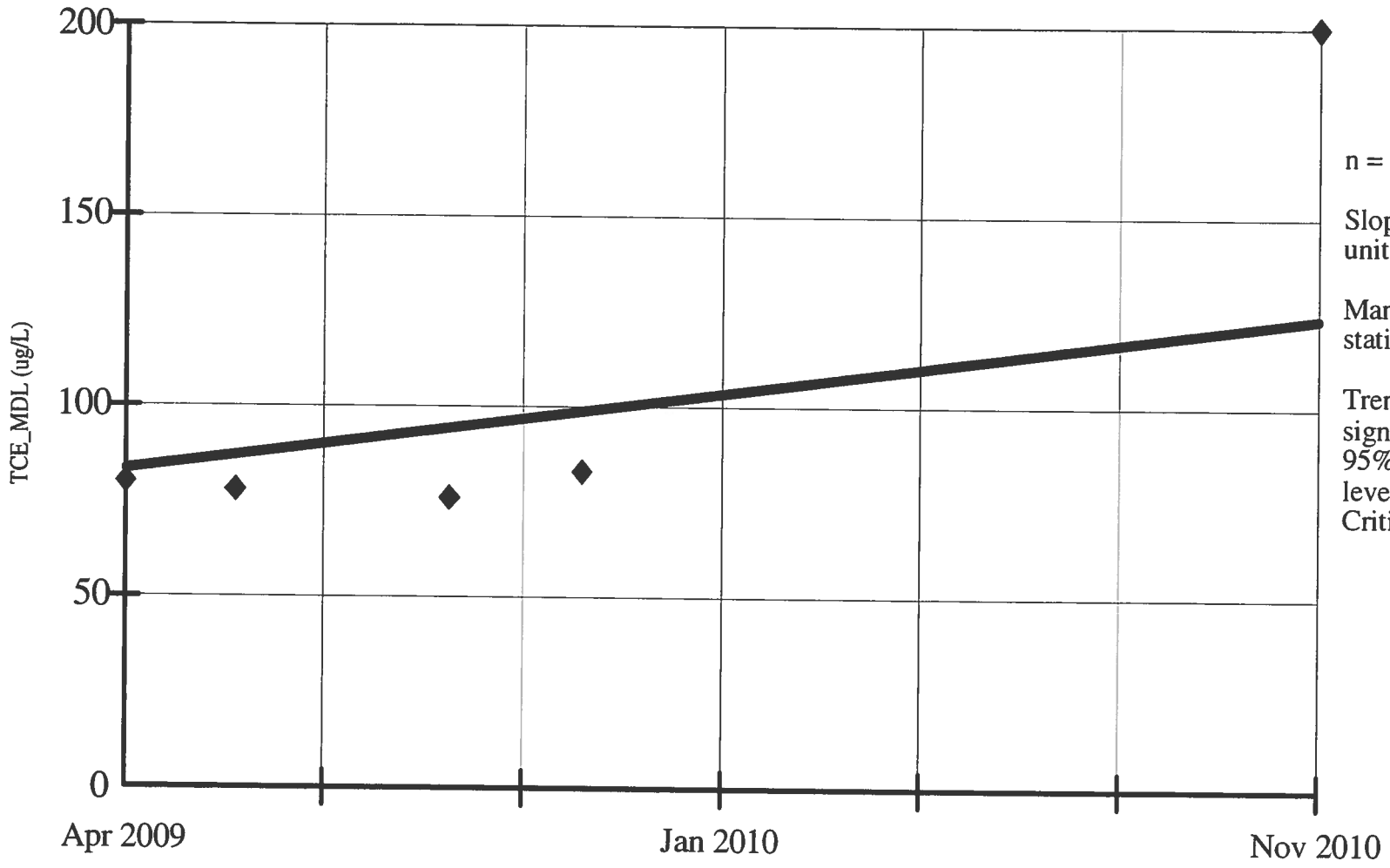
Background Data Summary: Mean=187.5, Std. Dev=18.93, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.7913, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:30 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-134B



n = 5.

Slope = 25.023 units per year.

Mann Kendall statistic = 4.

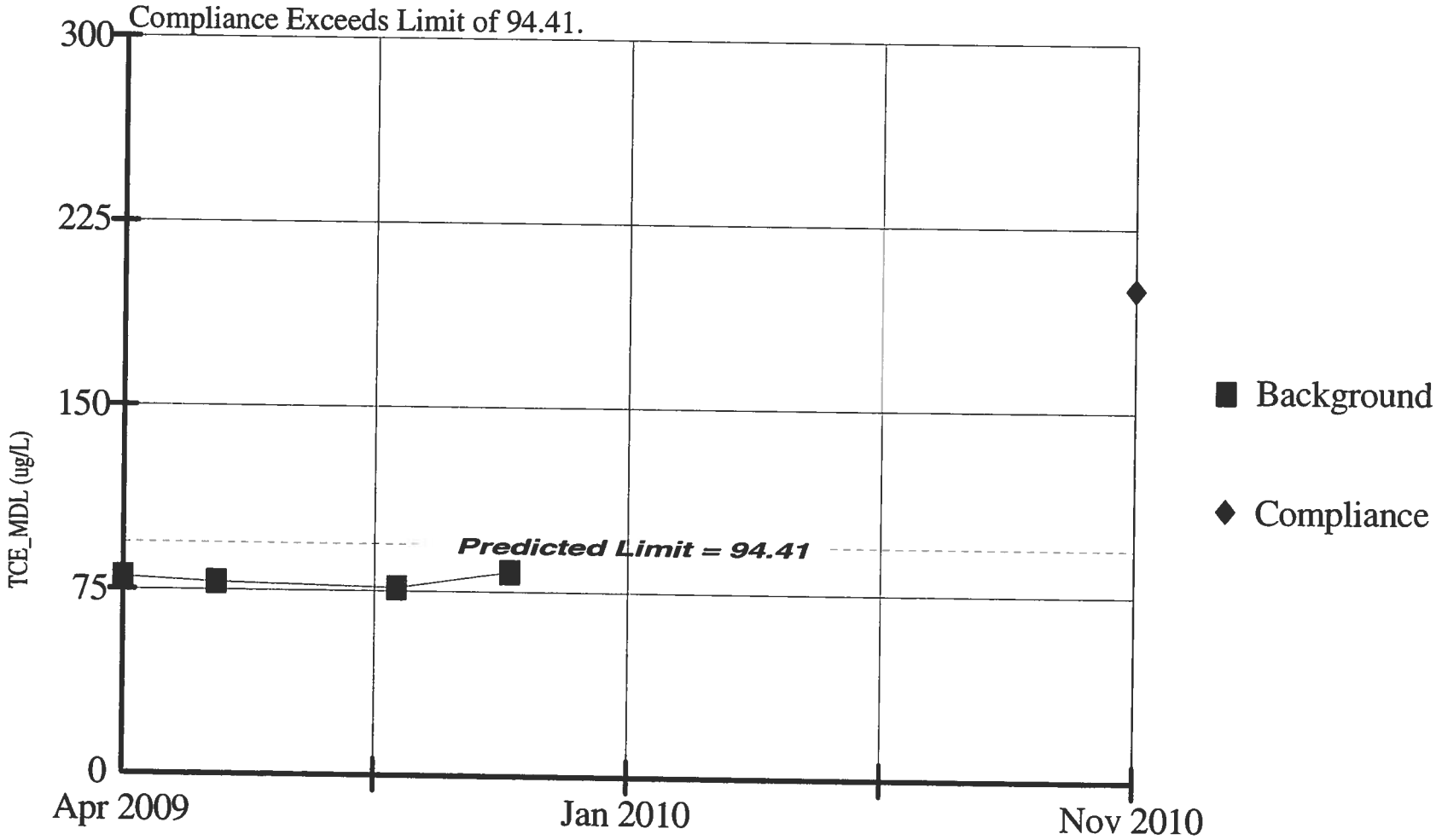
Trend not significant at 95% confidence level (two tailed). Critical value = 10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:55 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-134B



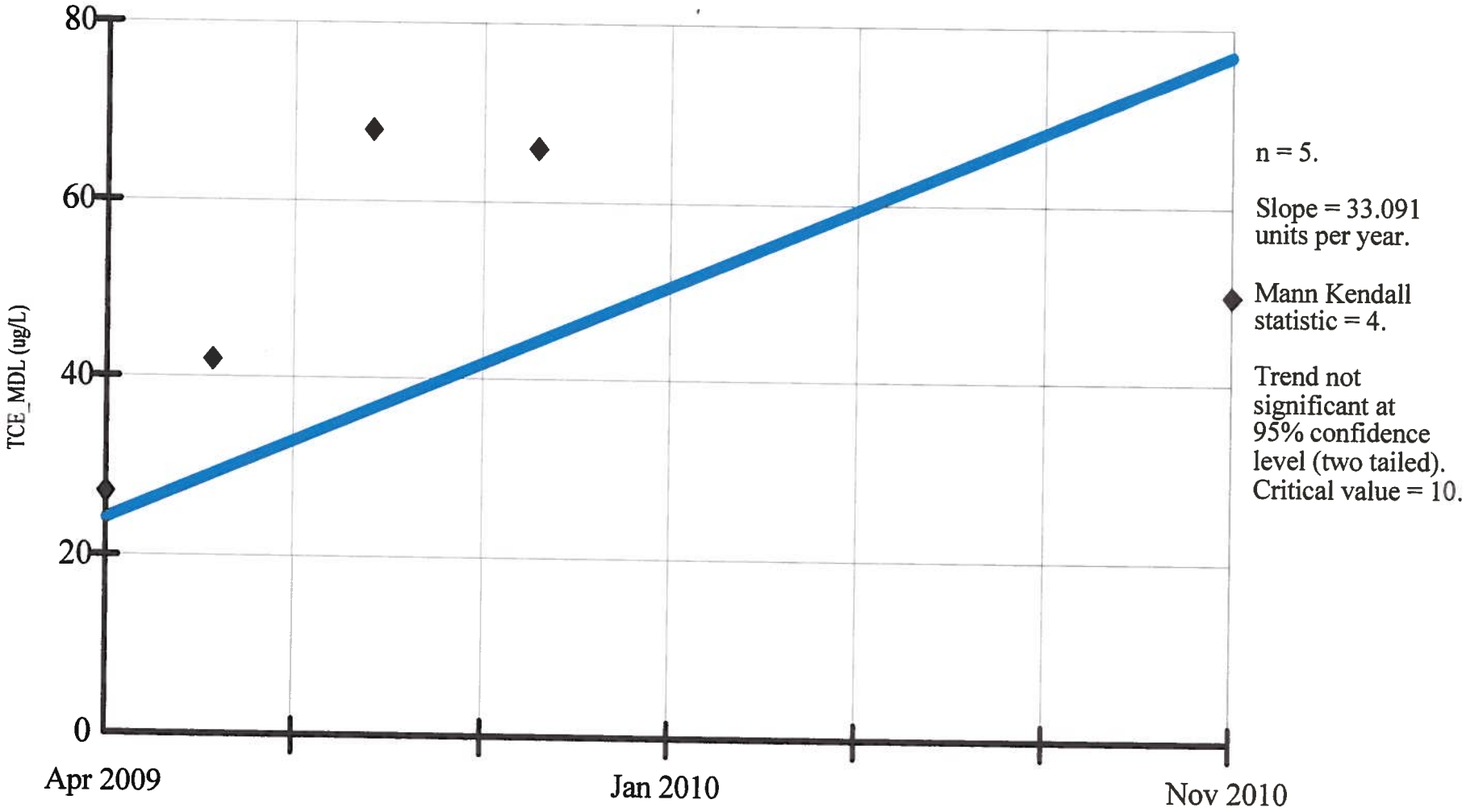
Background Data Summary: Mean=79.25, Std. Dev=2.986, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9899, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:30 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-134D

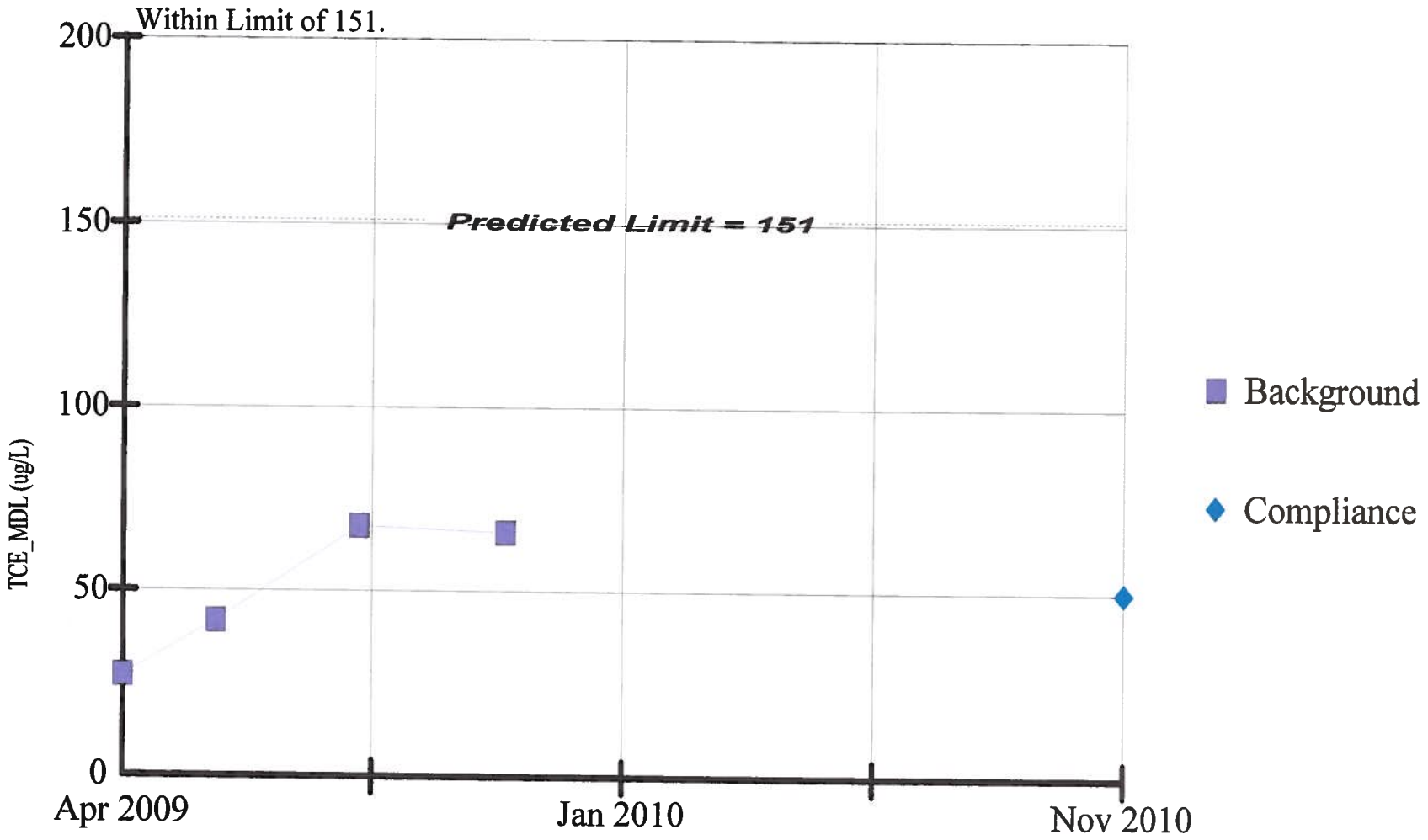


Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:11 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-134D



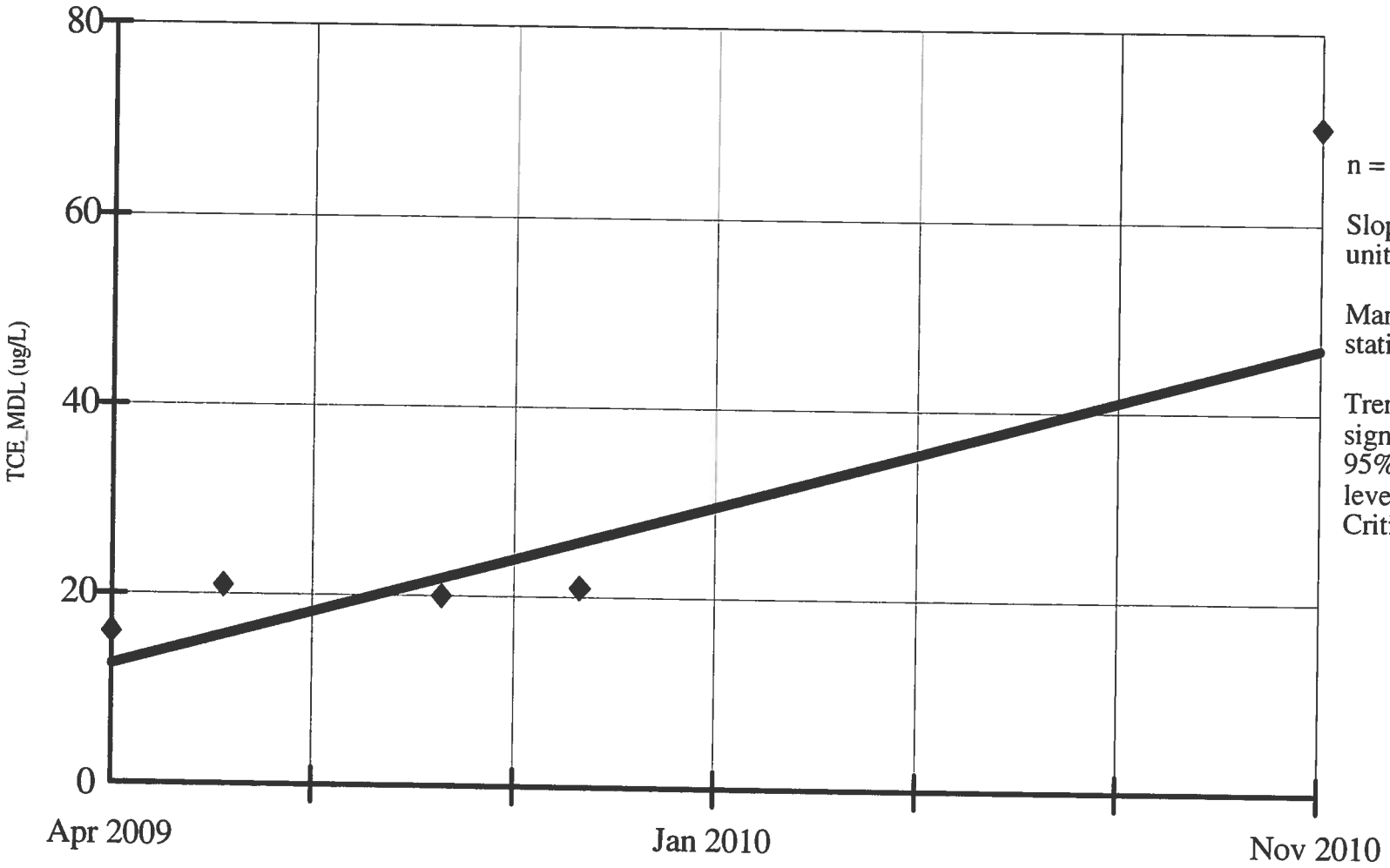
Background Data Summary: Mean=50.75, Std. Dev=19.76, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8856, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:22 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-135A



n = 5.

Slope = 21.404 units per year.

Mann Kendall statistic = 7.

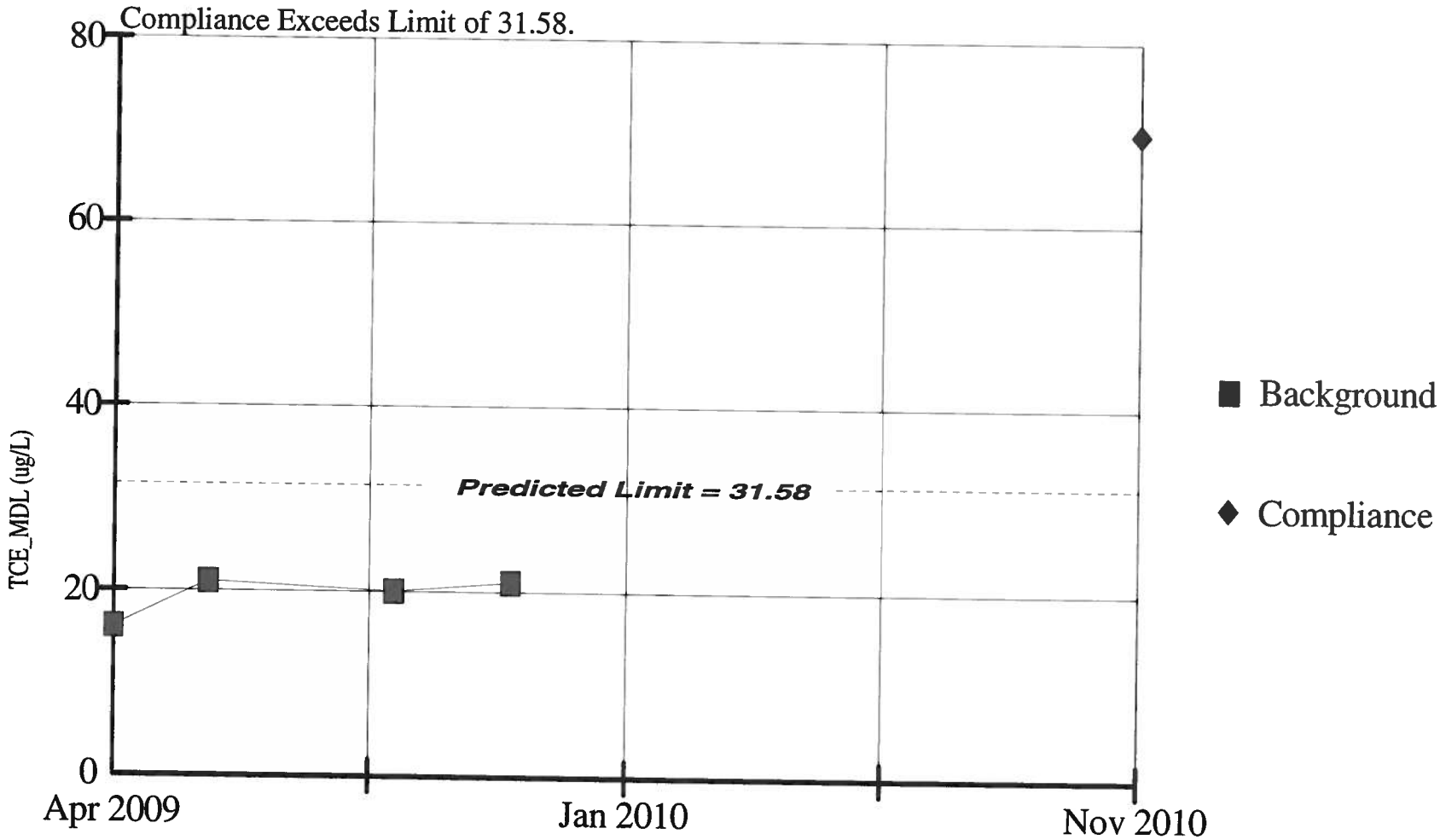
Trend not significant at 95% confidence level (two tailed). Critical value = 10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:55 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-135A



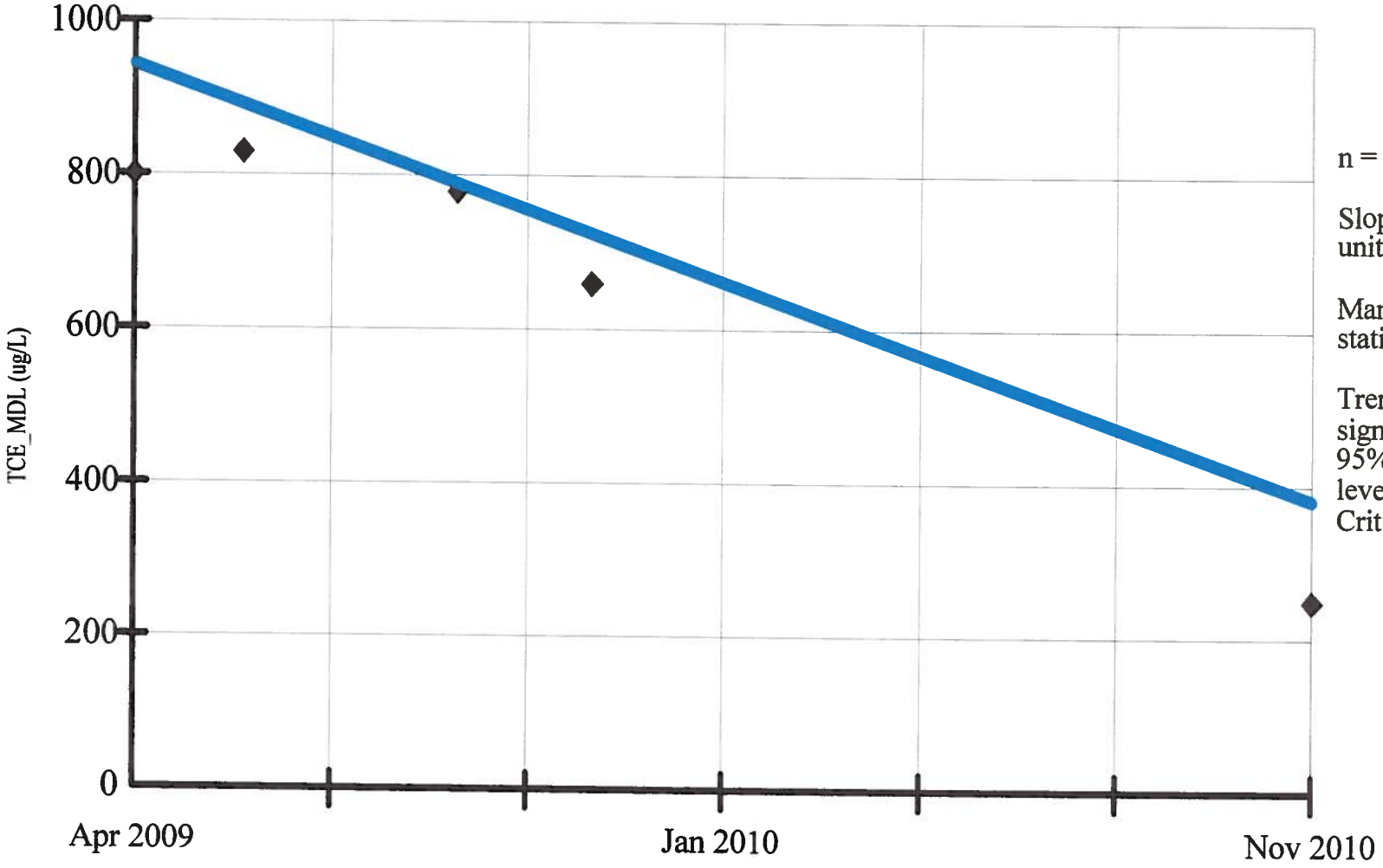
Background Data Summary: Mean=19.5, Std. Dev=2.38, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.7639, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:30 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-135B



n = 5.

Slope = -350.929 units per year.

Mann Kendall statistic = -8.

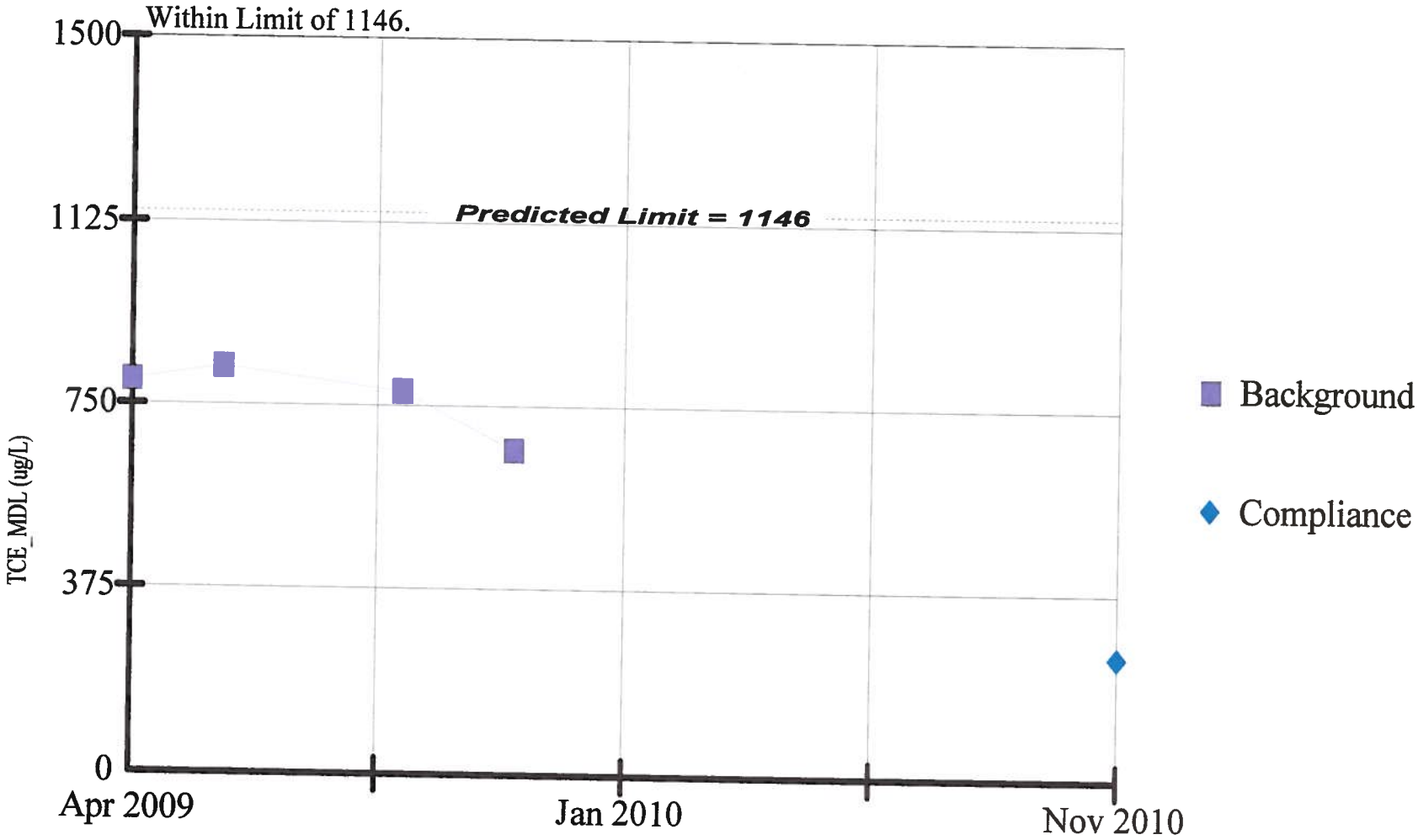
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:13 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-135B



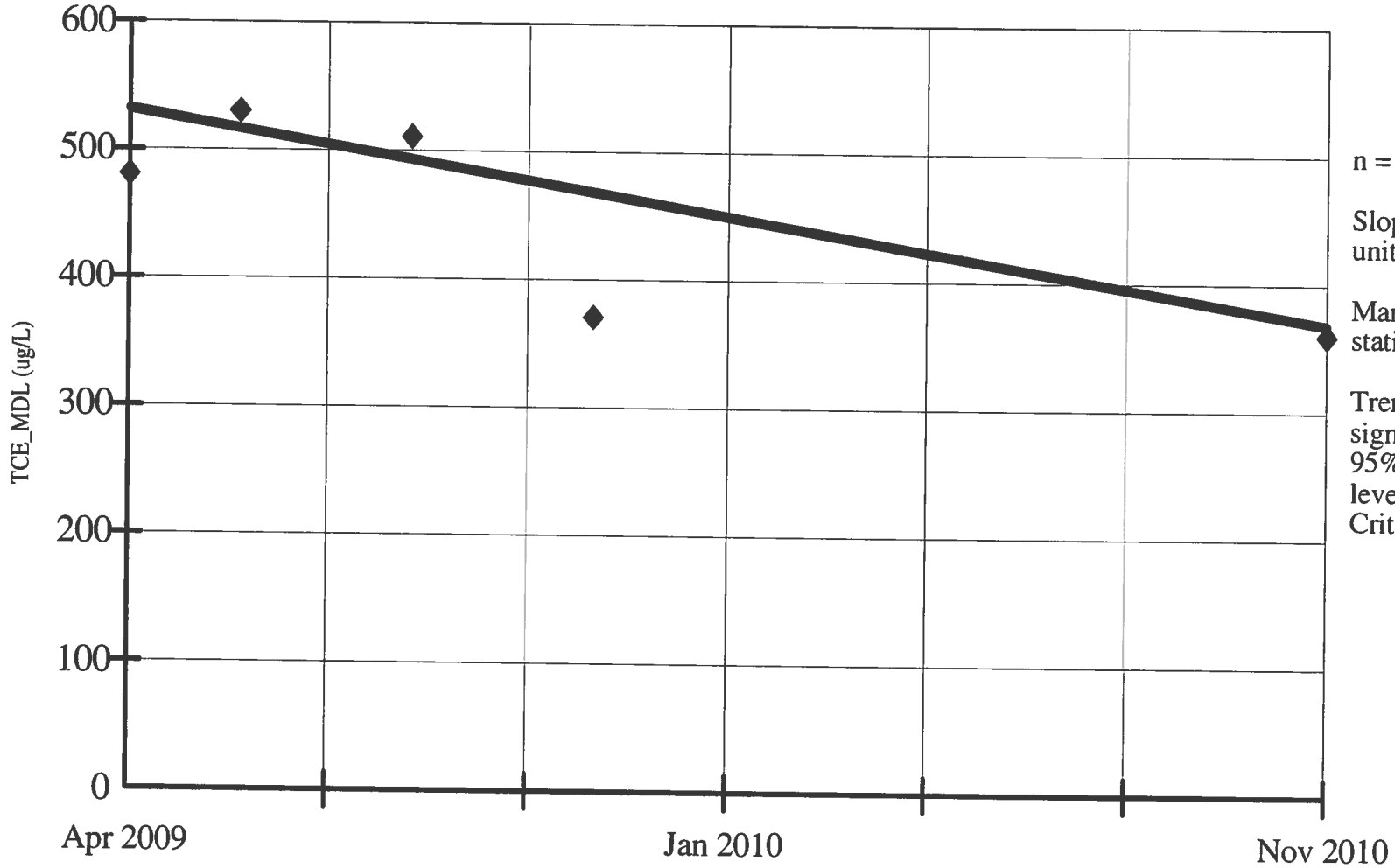
Background Data Summary: Mean=767.5, Std. Dev=74.55, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8661, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:46 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-135D



n = 5.

Slope = -101.89 units per year.

Mann Kendall statistic = -6.

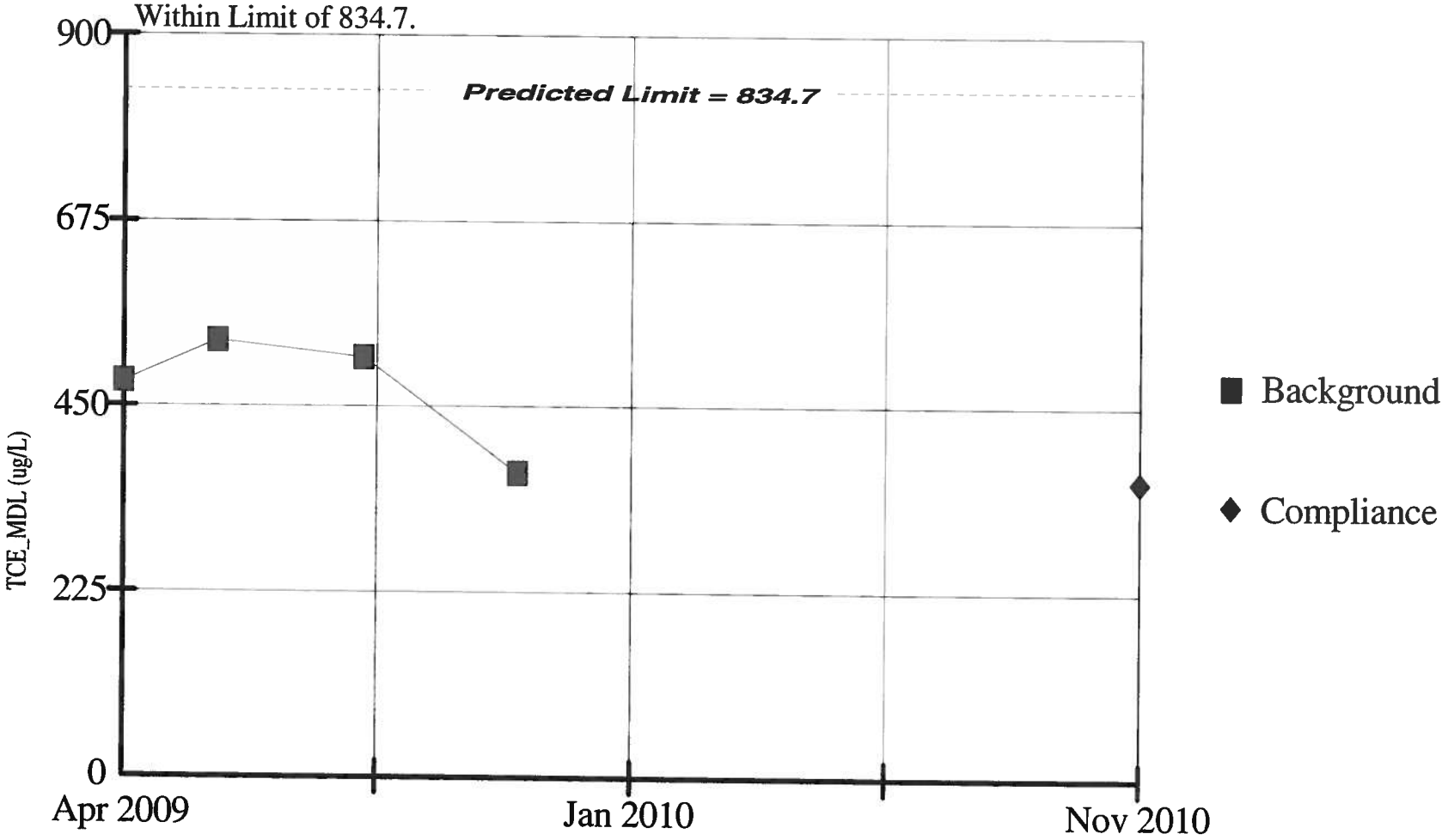
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:55 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-135D



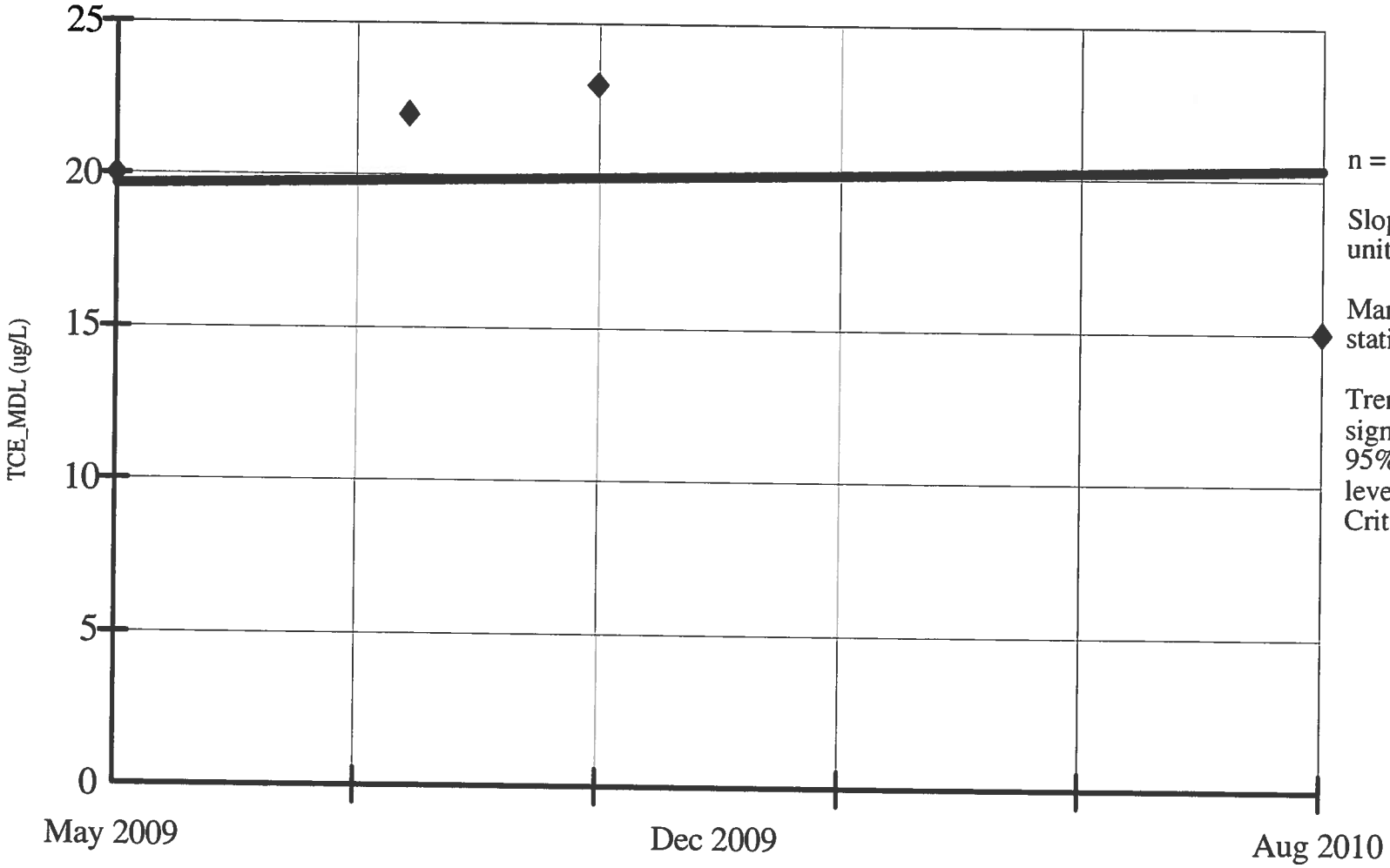
Background Data Summary: Mean=472.5, Std. Dev=71.36, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8655, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:30 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-136A



n = 4.

Slope = 0.582 units per year.

Mann Kendall statistic = 0.

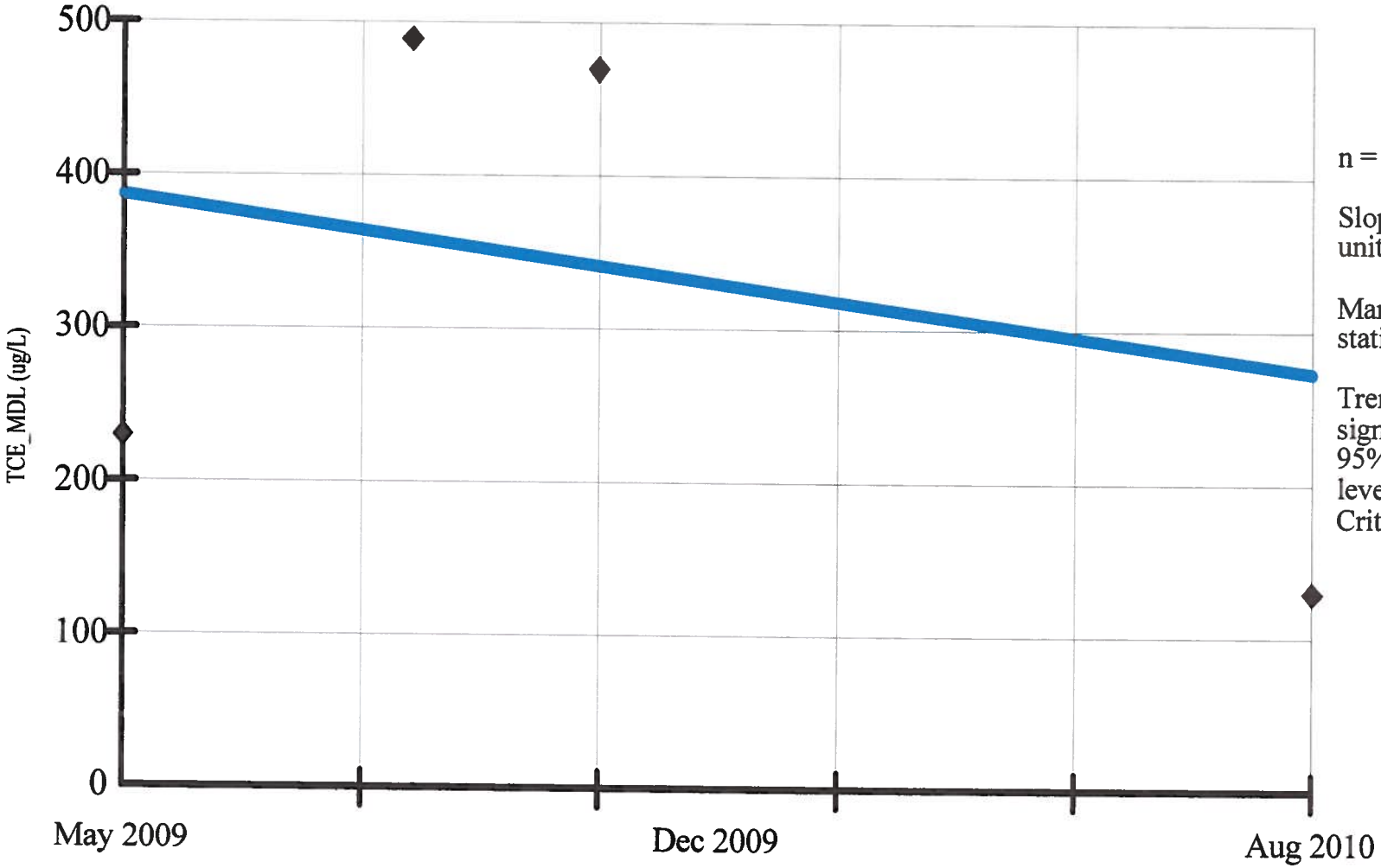
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:55 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-136B



n = 4.

Slope = -95.721 units per year.

Mann Kendall statistic = -2.

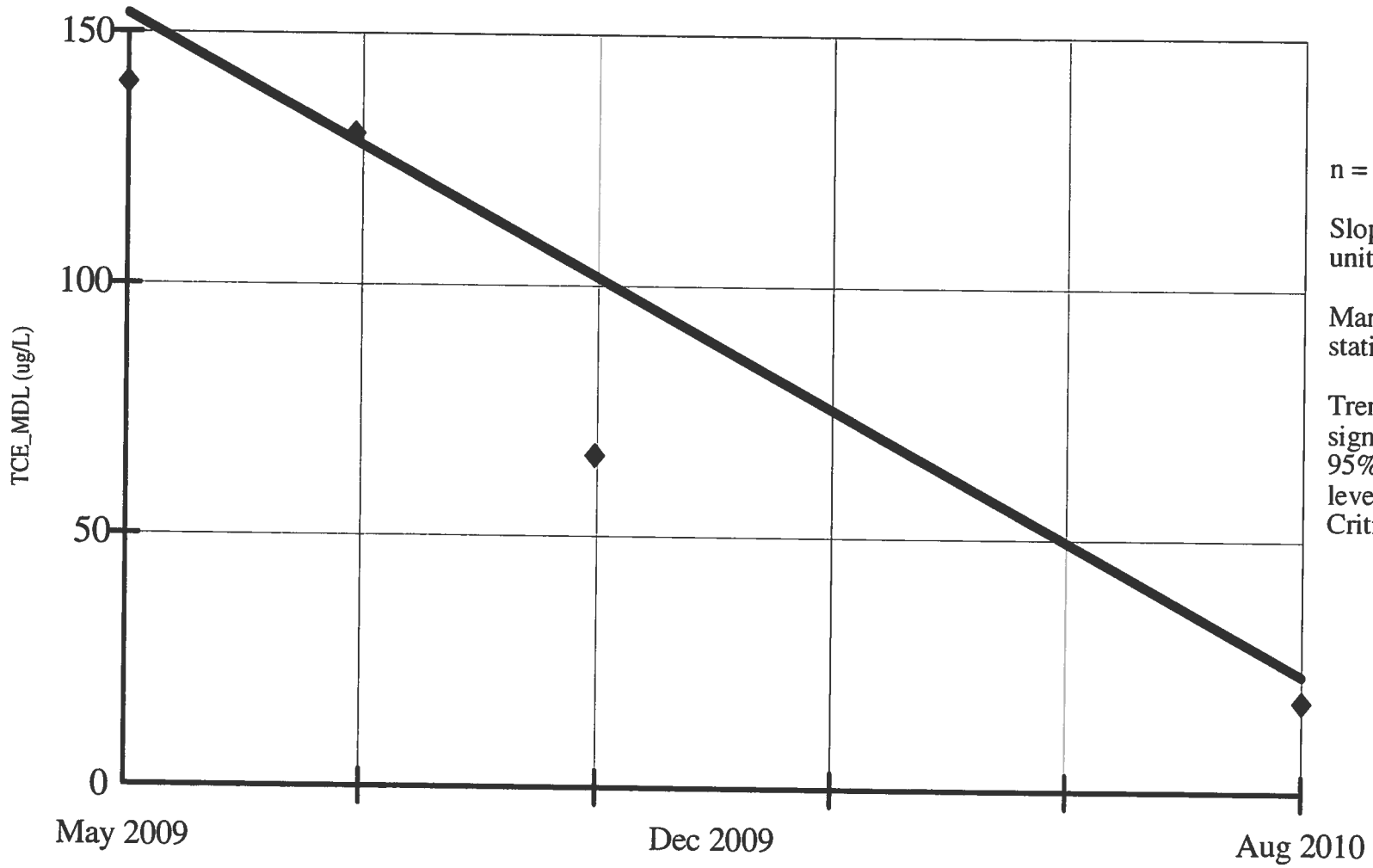
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:14 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-136D



n = 4.

Slope = -109.701 units per year.

Mann Kendall statistic = -6.

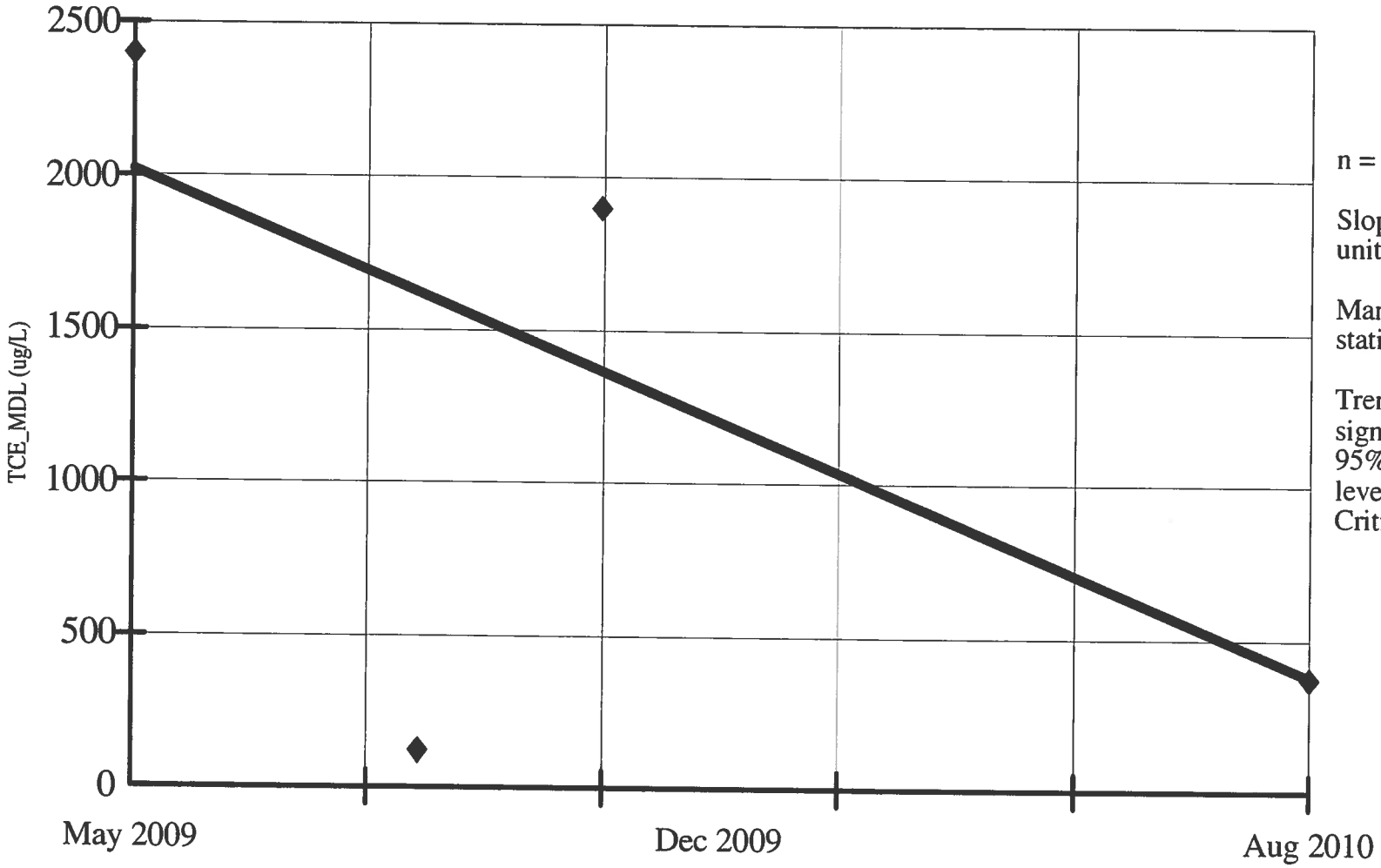
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:55 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-136E



n = 4.

Slope = -1379.153 units per year.

Mann Kendall statistic = -2.

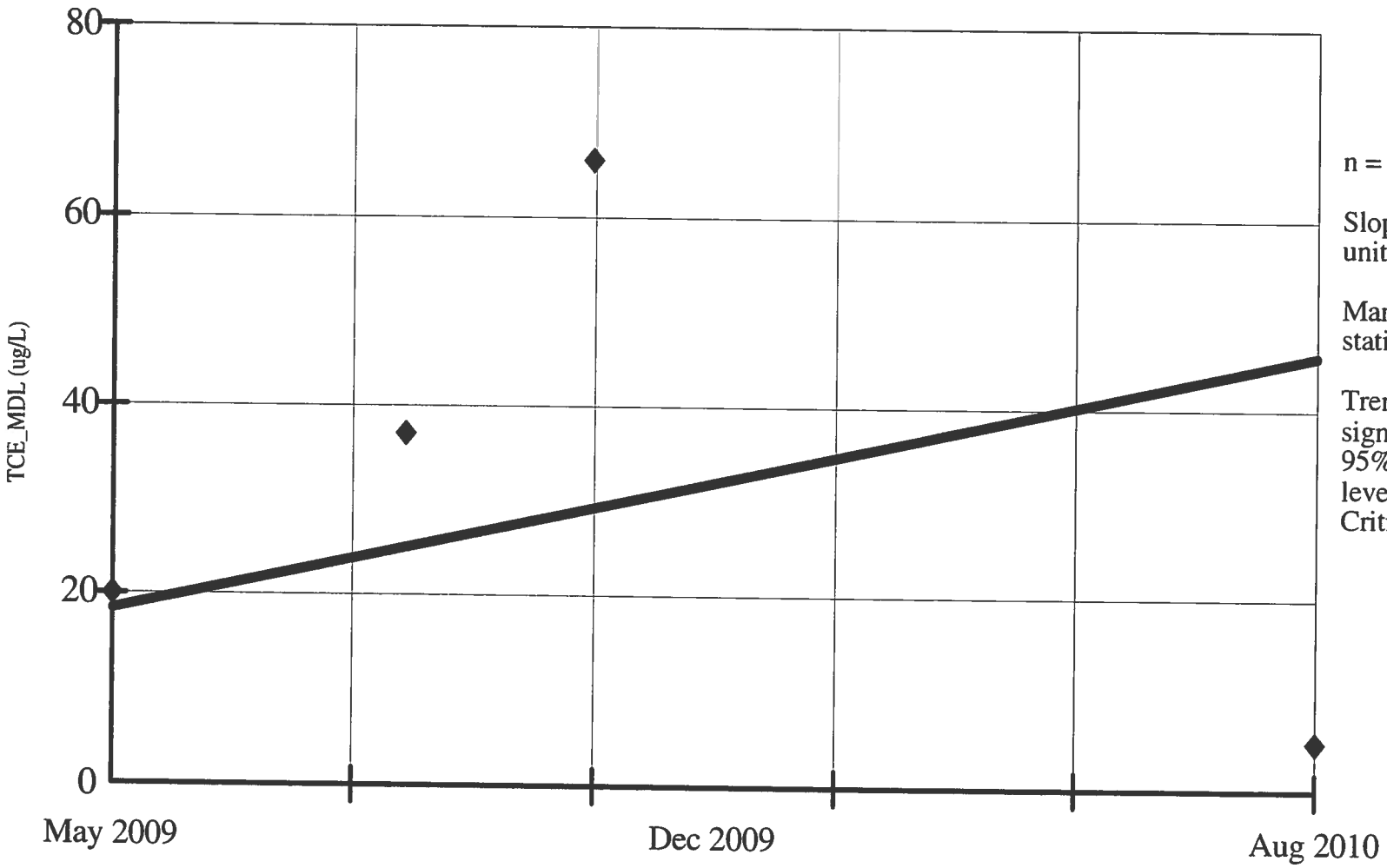
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:55 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-137A



n = 4.

Slope = 22.98 units per year.

Mann Kendall statistic = 0.

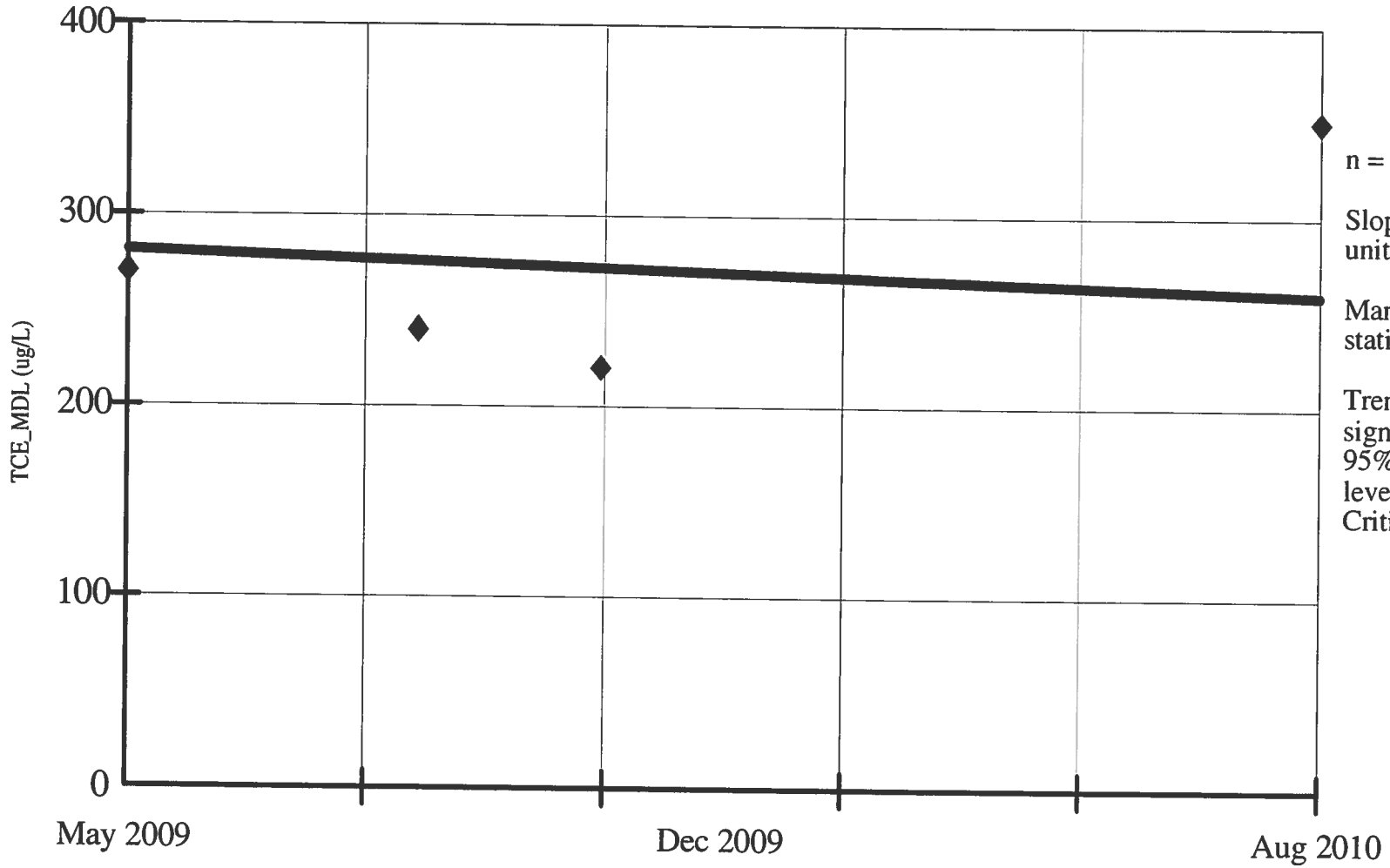
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:55 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-137B



n = 4.

Slope = -18.086 units per year.

Mann Kendall statistic = 0.

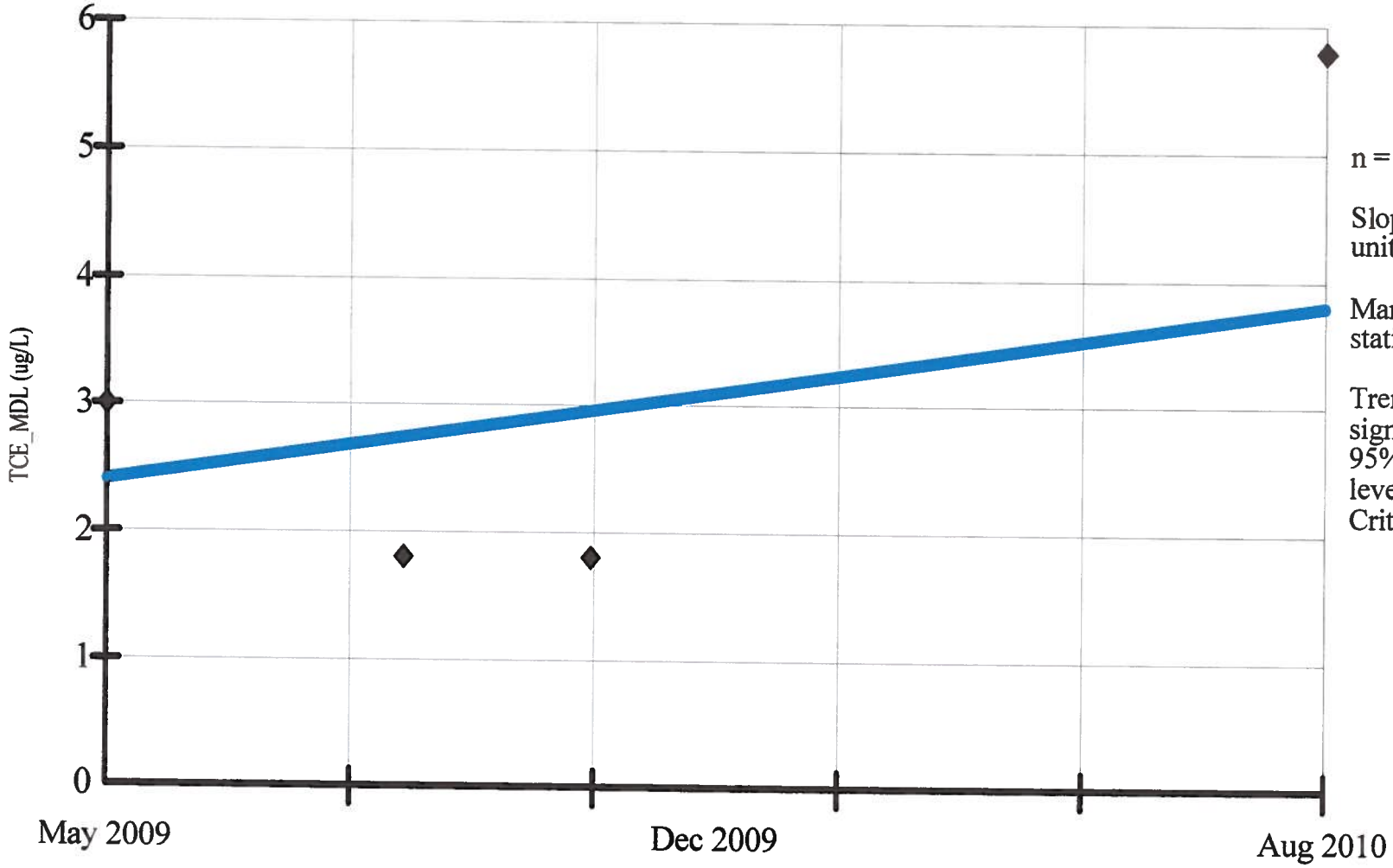
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:55 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-137D



n = 4.

Slope = 1.175 units per year.

Mann Kendall statistic = 1.

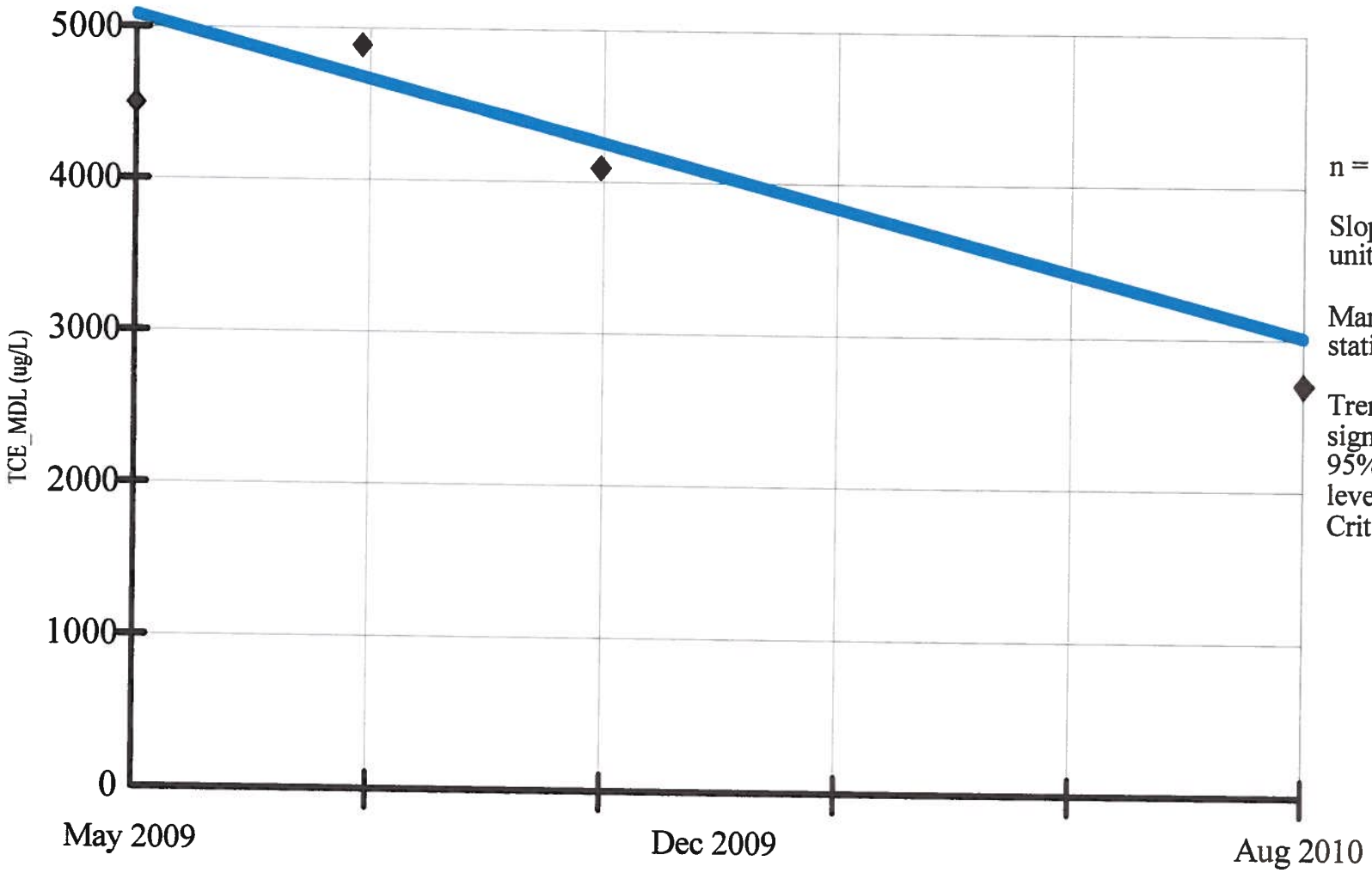
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:16 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-137E



n = 4.

Slope = -1730.465 units per year.

Mann Kendall statistic = -4.

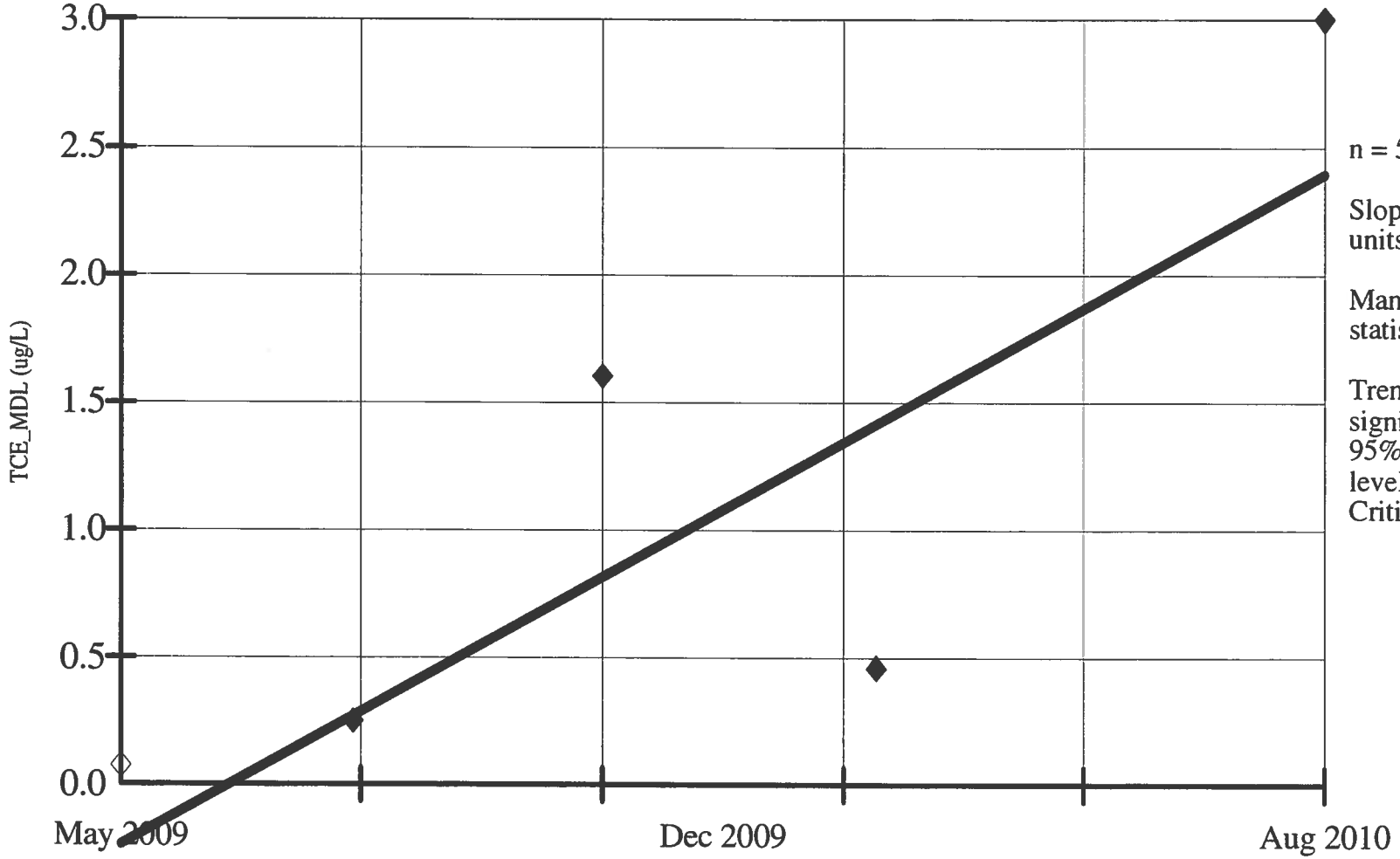
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 7:18 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-138A



n = 5.

Slope = 2.206 units per year.

Mann Kendall statistic = 8.

Trend not significant at 95% confidence level (two tailed). Critical value = 10.

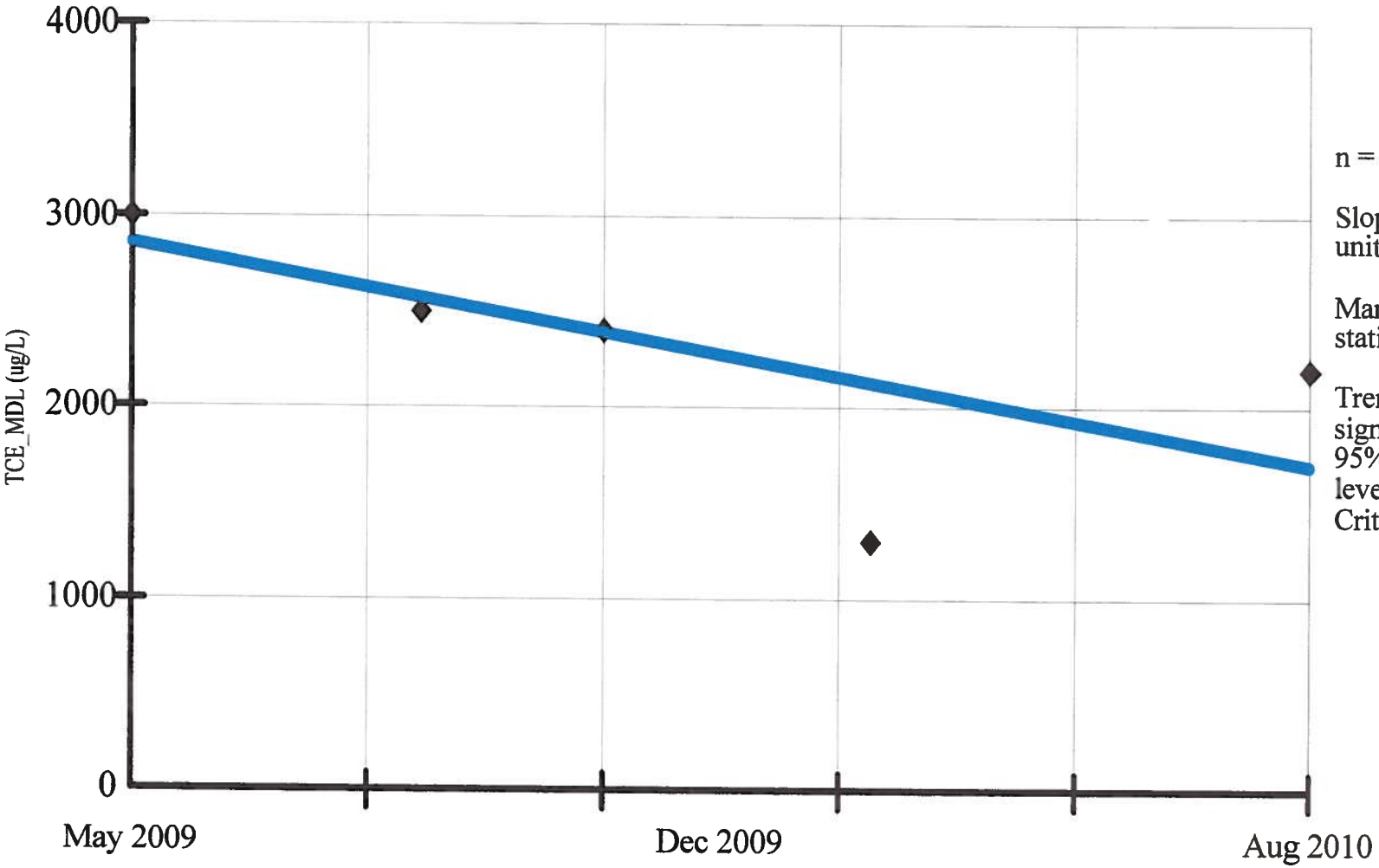
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:56 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-138B



n = 5.

Slope = -964.878 units per year.

Mann Kendall statistic = -8.

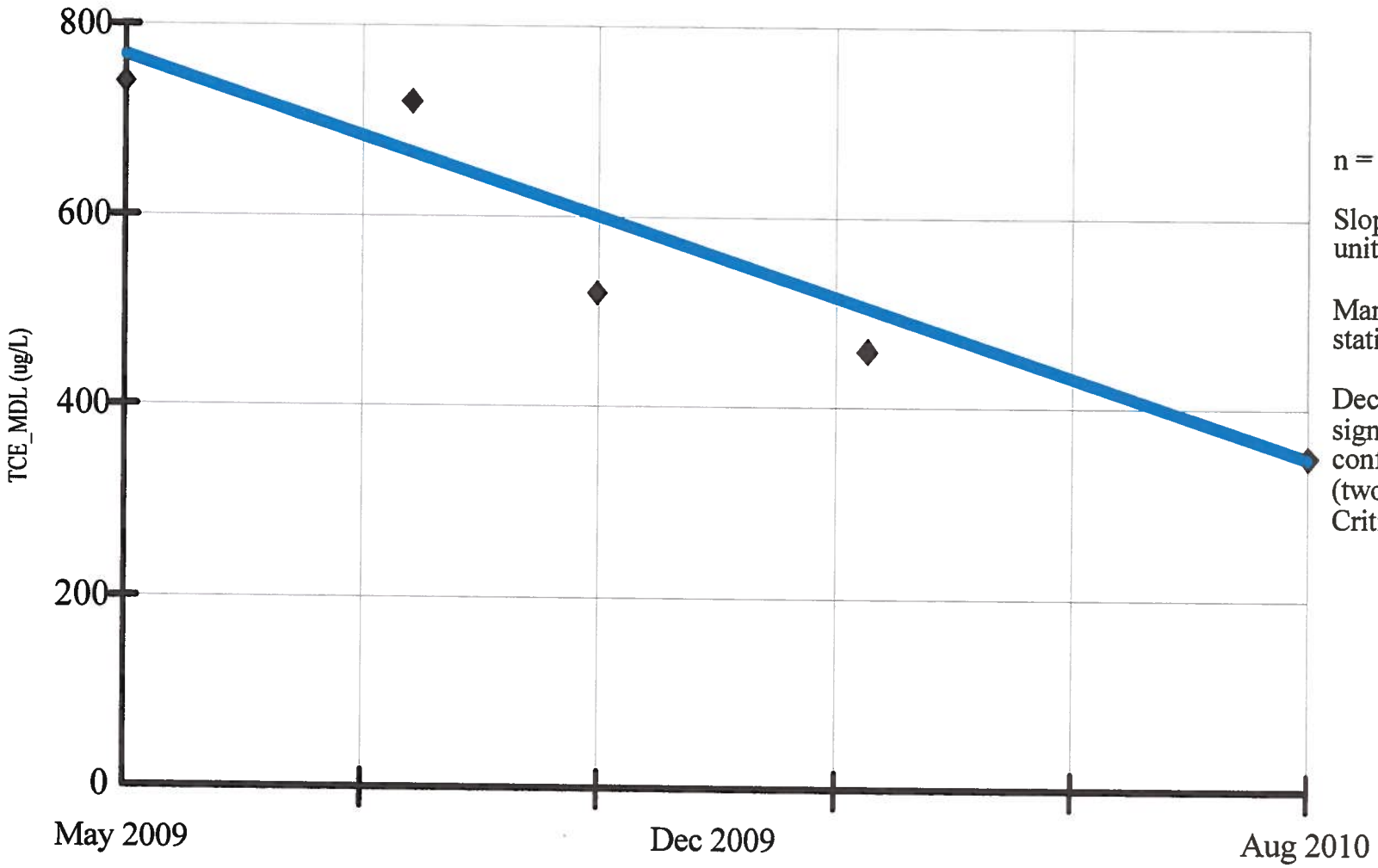
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 8:44 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-139B



n = 5.

Slope = -351.787 units per year.

Mann Kendall statistic = -10.

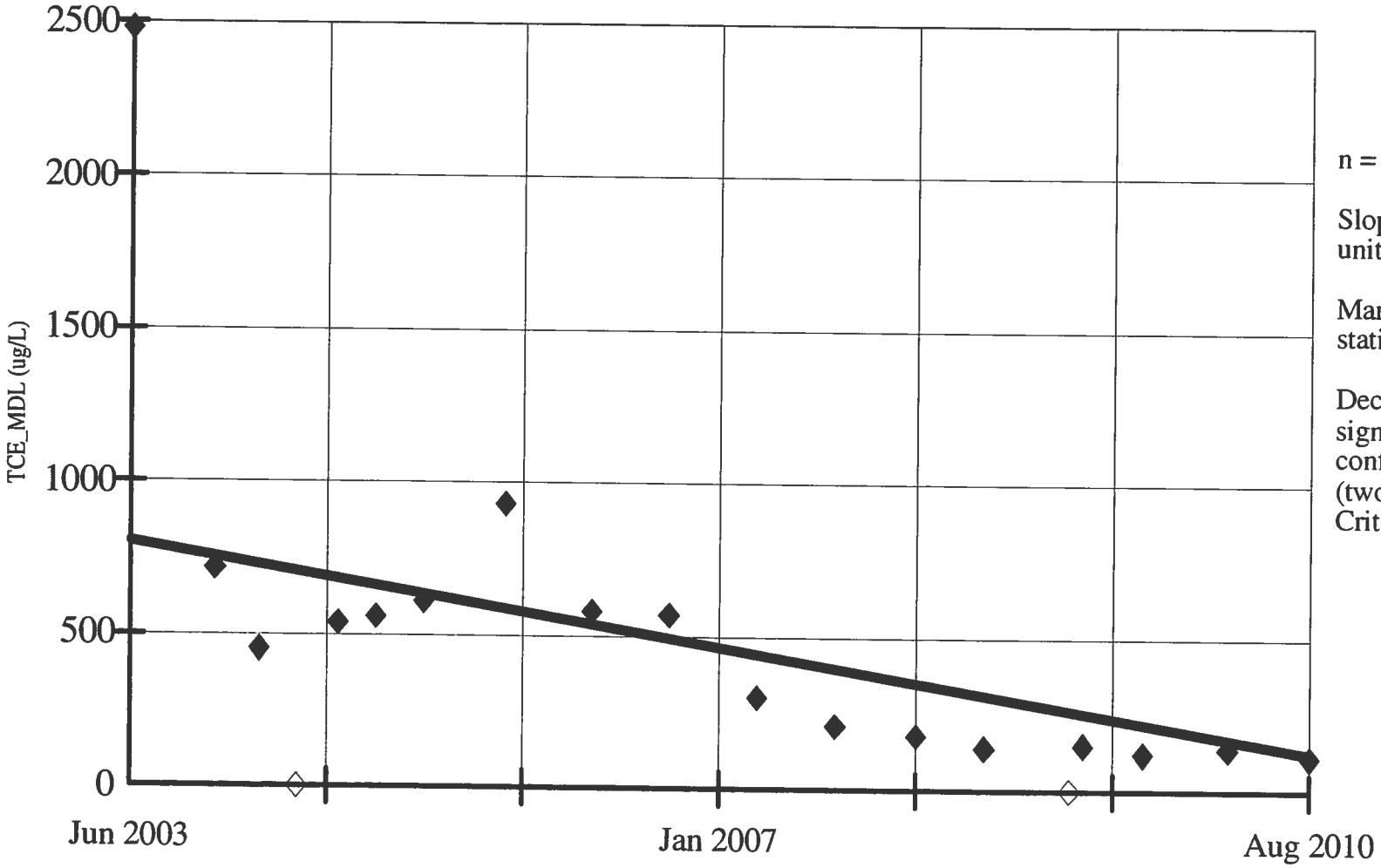
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: TCE_MDL (ug/L)
Date: 1/30/11, 8:44 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
WSW-52C-B



n = 19.

Slope = -94.024 units per year.

Mann Kendall statistic = -95.

Decreasing trend significant at 95% confidence level (two tailed). Critical value = -58.

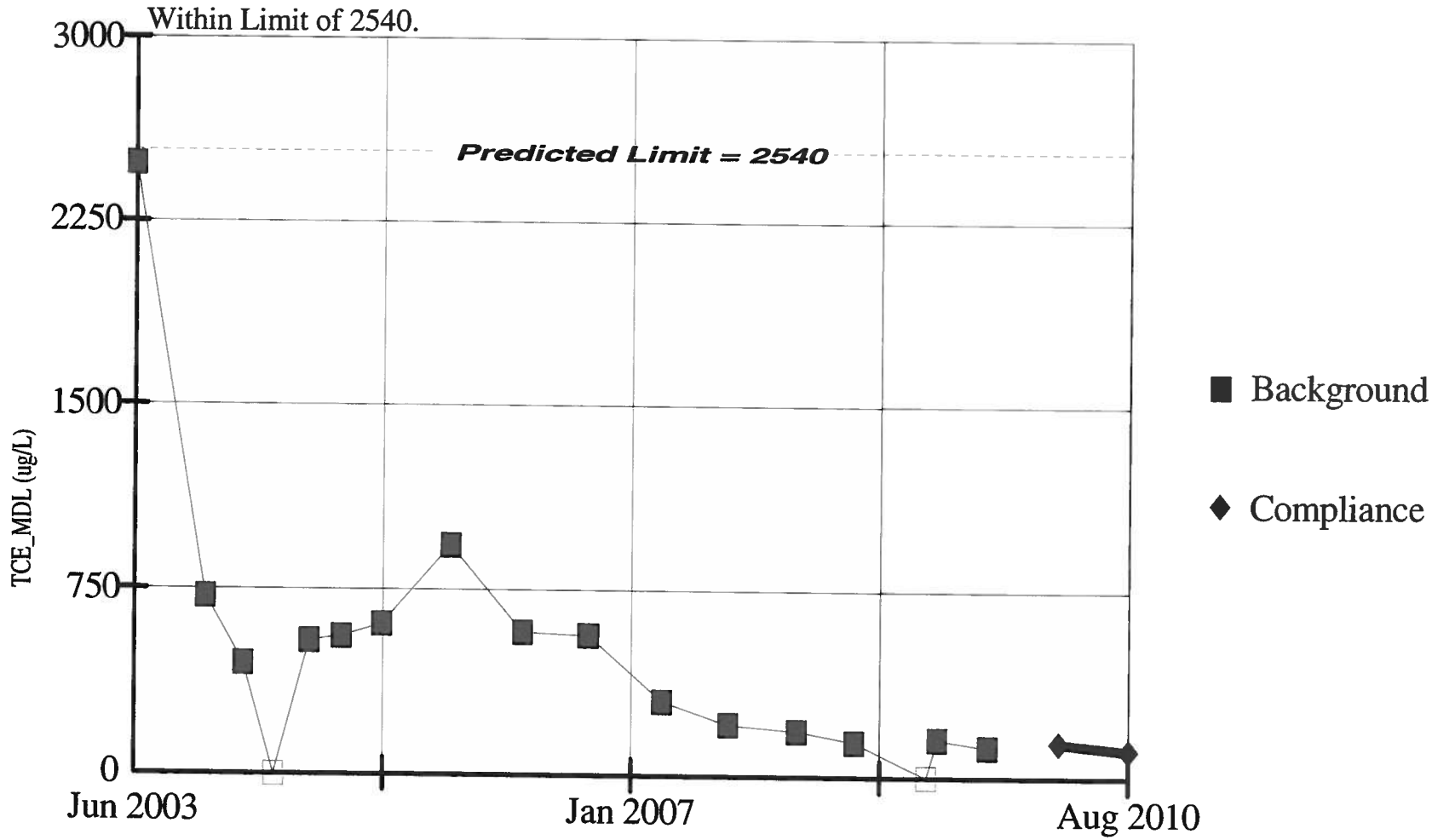
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:59 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
WSW-52C-B



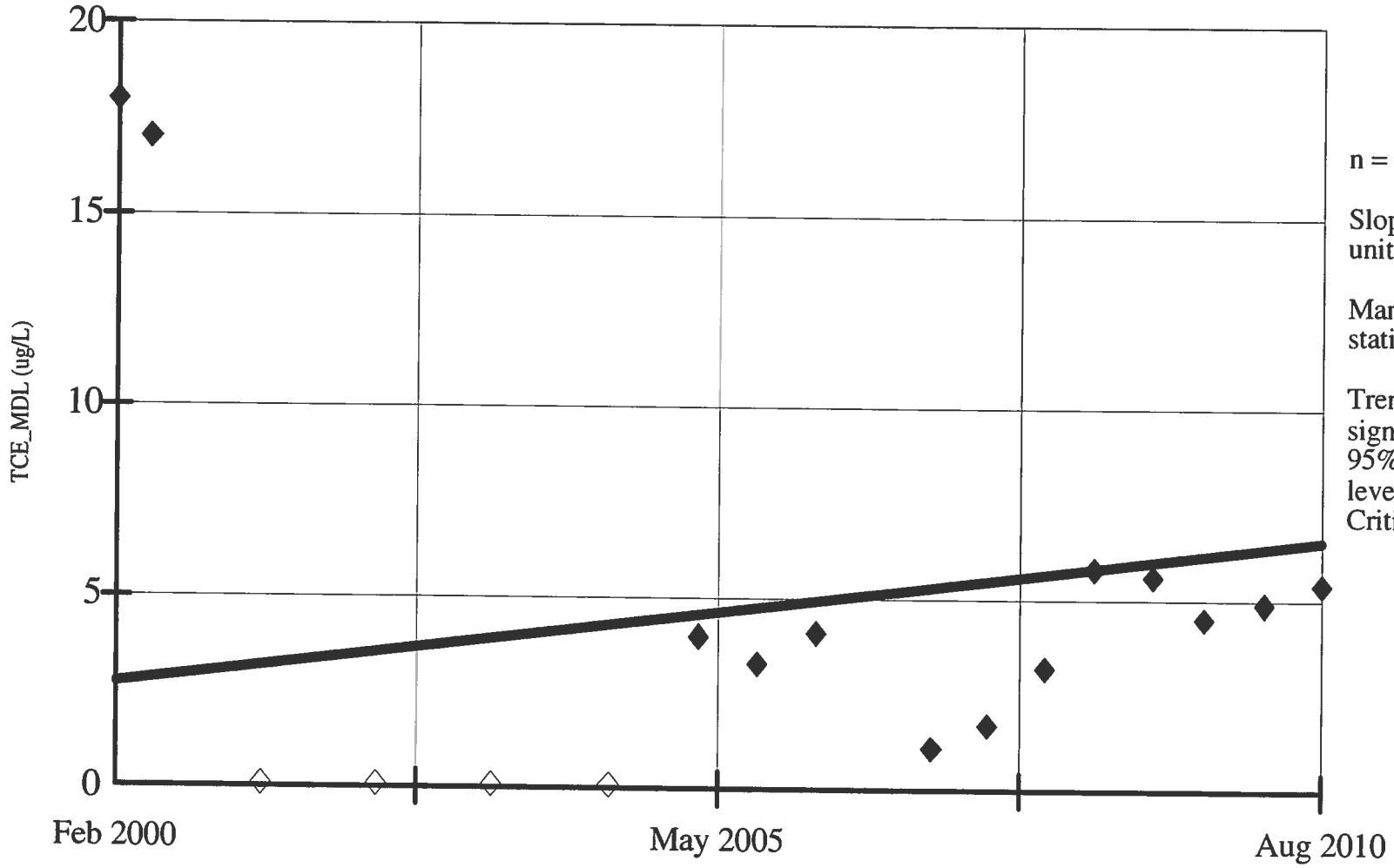
Background Data Summary: (based on square root(x) transformed data) Mean=19.33, Std. Dev=11.69, 11.76% nds, 17 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9236, W Quantile = 0.892 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit. Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:31 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
WSW-053-B



n = 17.

Slope = 0.365 units per year.

Mann Kendall statistic = 34.

Trend not significant at 95% confidence level (two tailed). Critical value = 49.

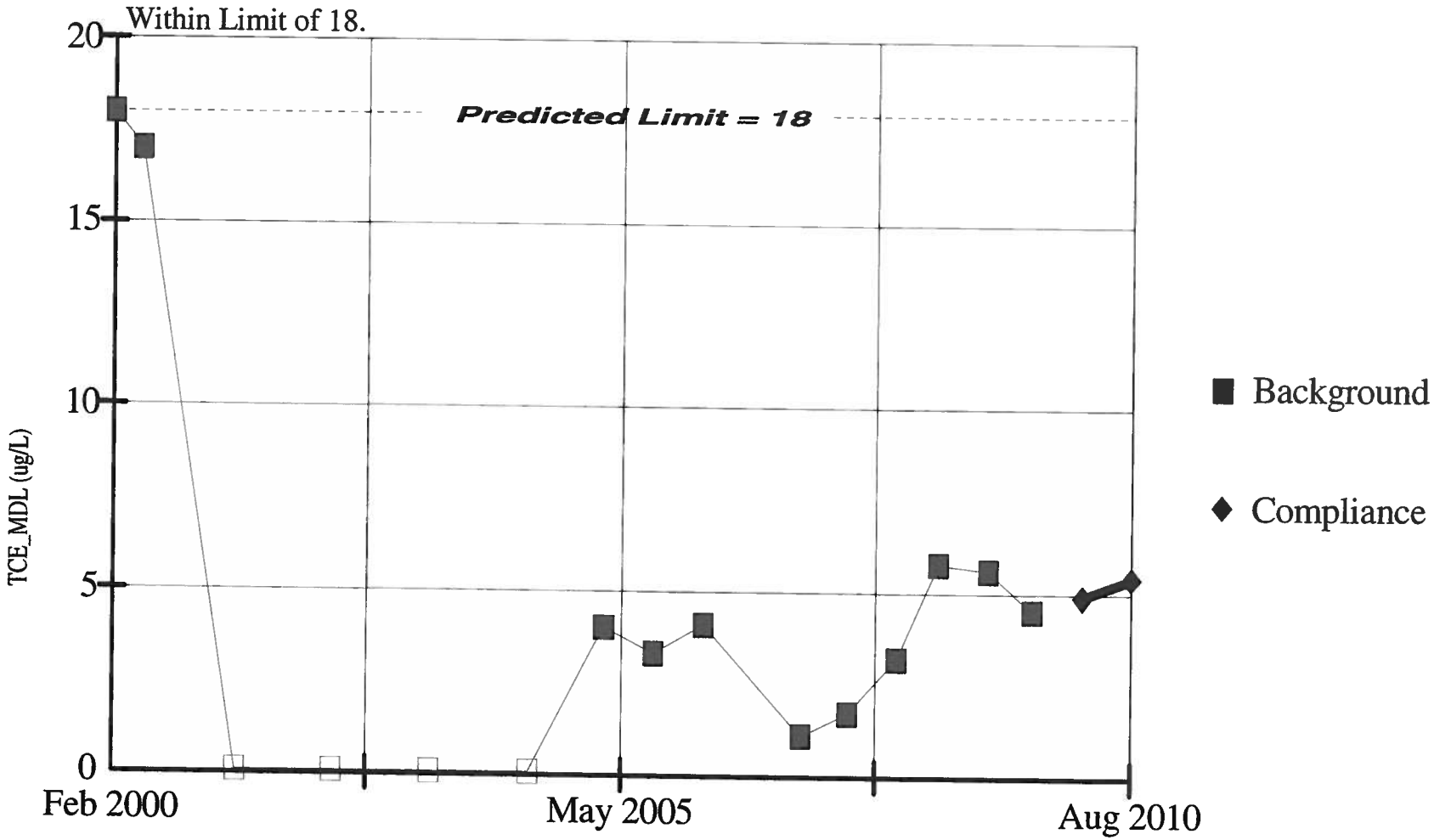
Hollow symbols indicate censored values.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:59 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
WSW-053-B



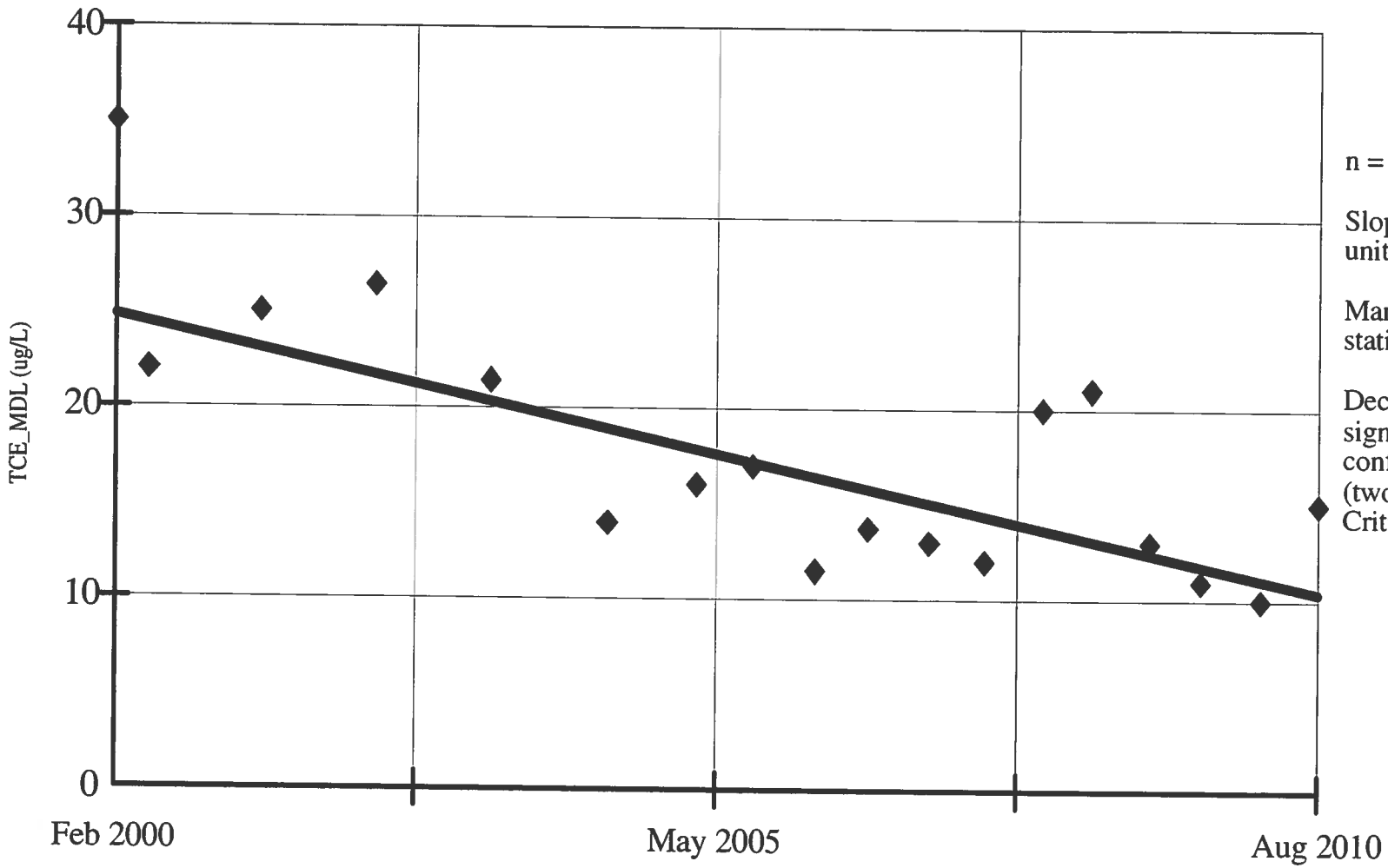
15 background obs. Testwise alpha = 0.0625 Most recent point compared to limit. Hollow symbols indicate censored values. Non-P test used in lieu of Parametric Intra-Well Prediction Limit because required power transformation and adjustment for non-detects are incompatible. NDs = 26.67%.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:31 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
WSW-054-B



n = 18.

Slope = -1.376 units per year.

Mann Kendall statistic = -84.

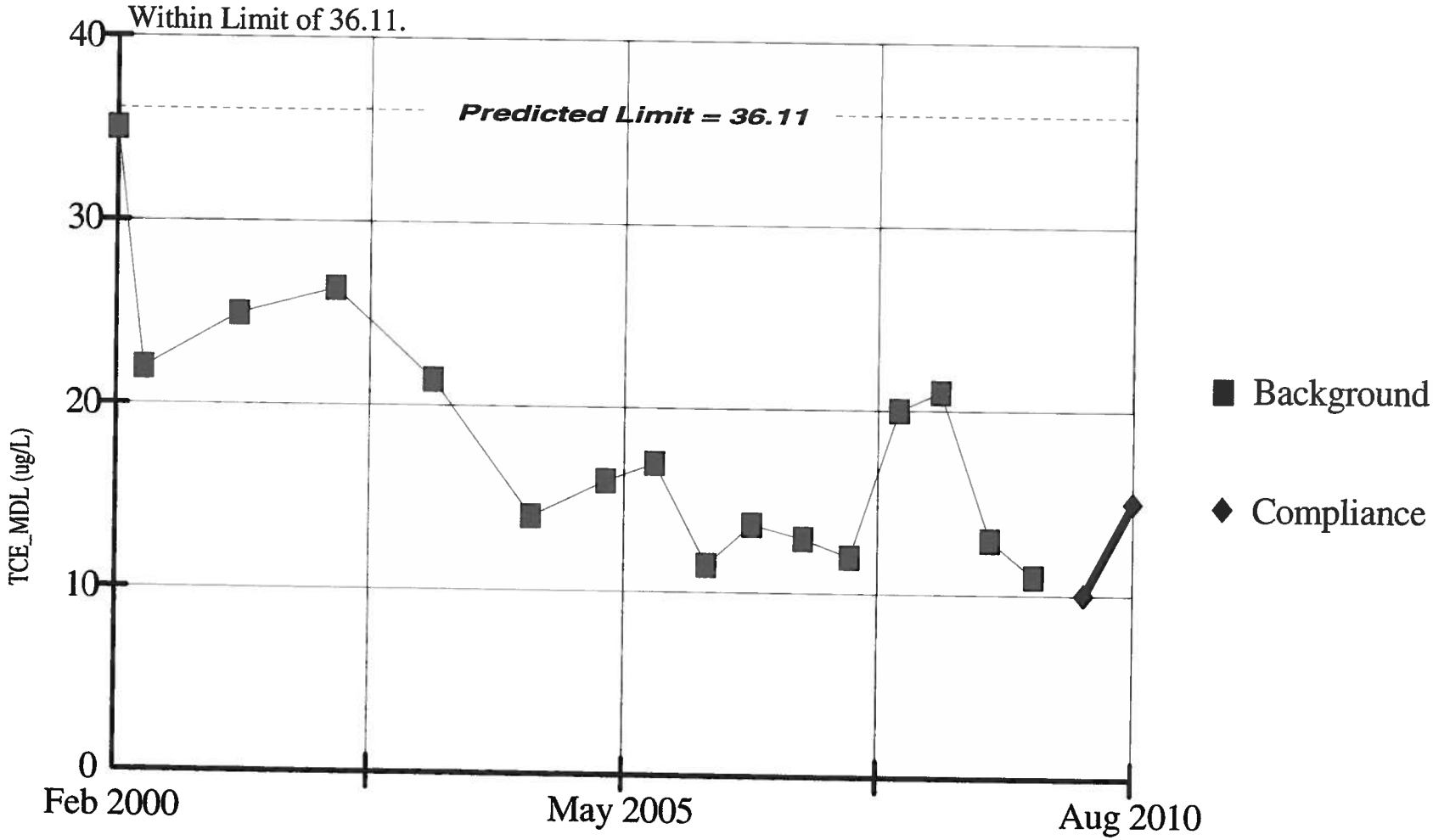
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -53.

Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:59 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
WSW-054-B



Background Data Summary: Mean=18.25, Std. Dev=6.658, 0% nds, 16 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8943, W Quantile = 0.887 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

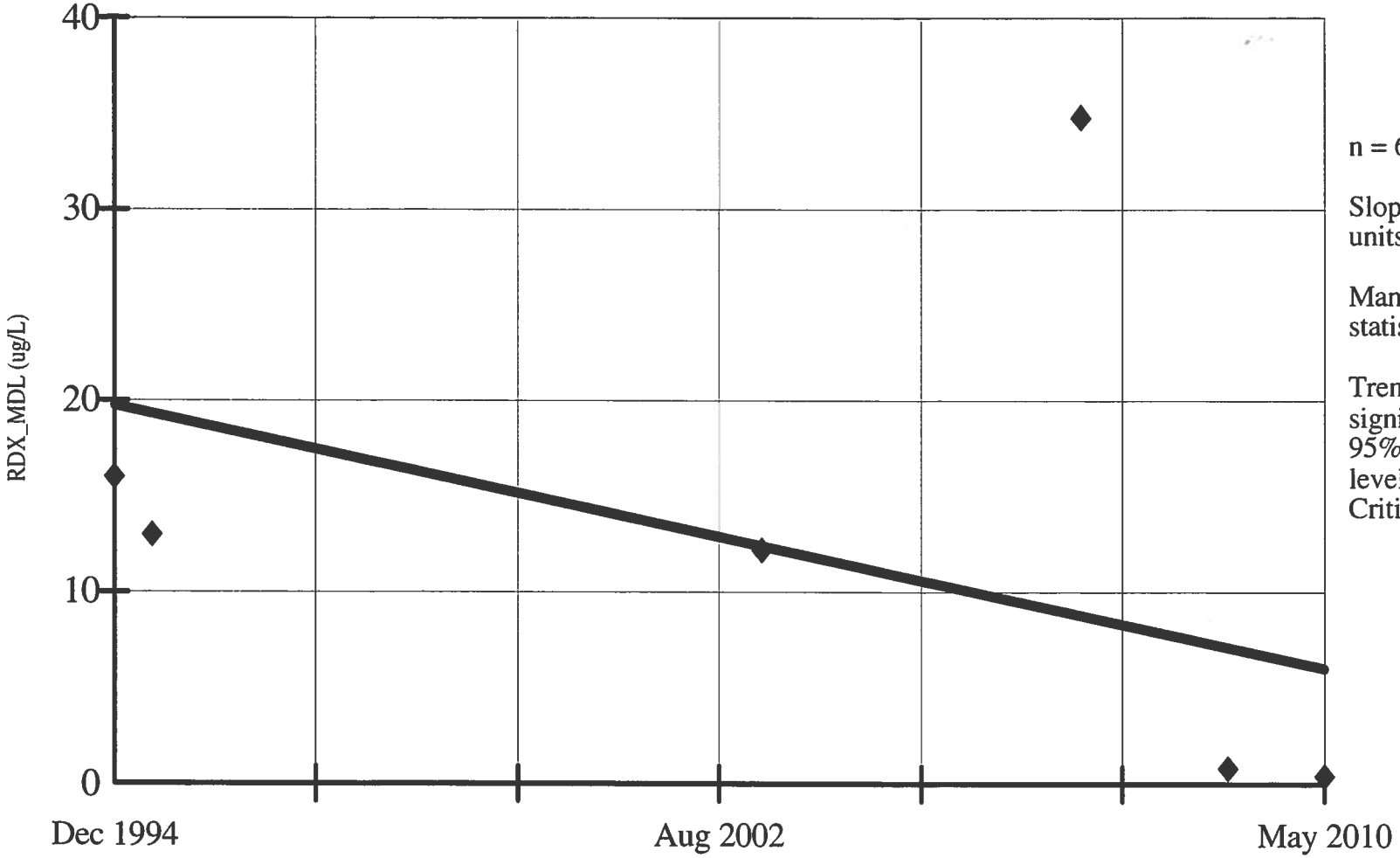
Constituent: TCE_MDL (ug/L)
Date: 1/28/11, 1:32 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

RDX

SEN'S SLOPE ESTIMATOR
MW-005B



n = 6.

Slope = -0.892 units per year.

Mann Kendall statistic = -9.

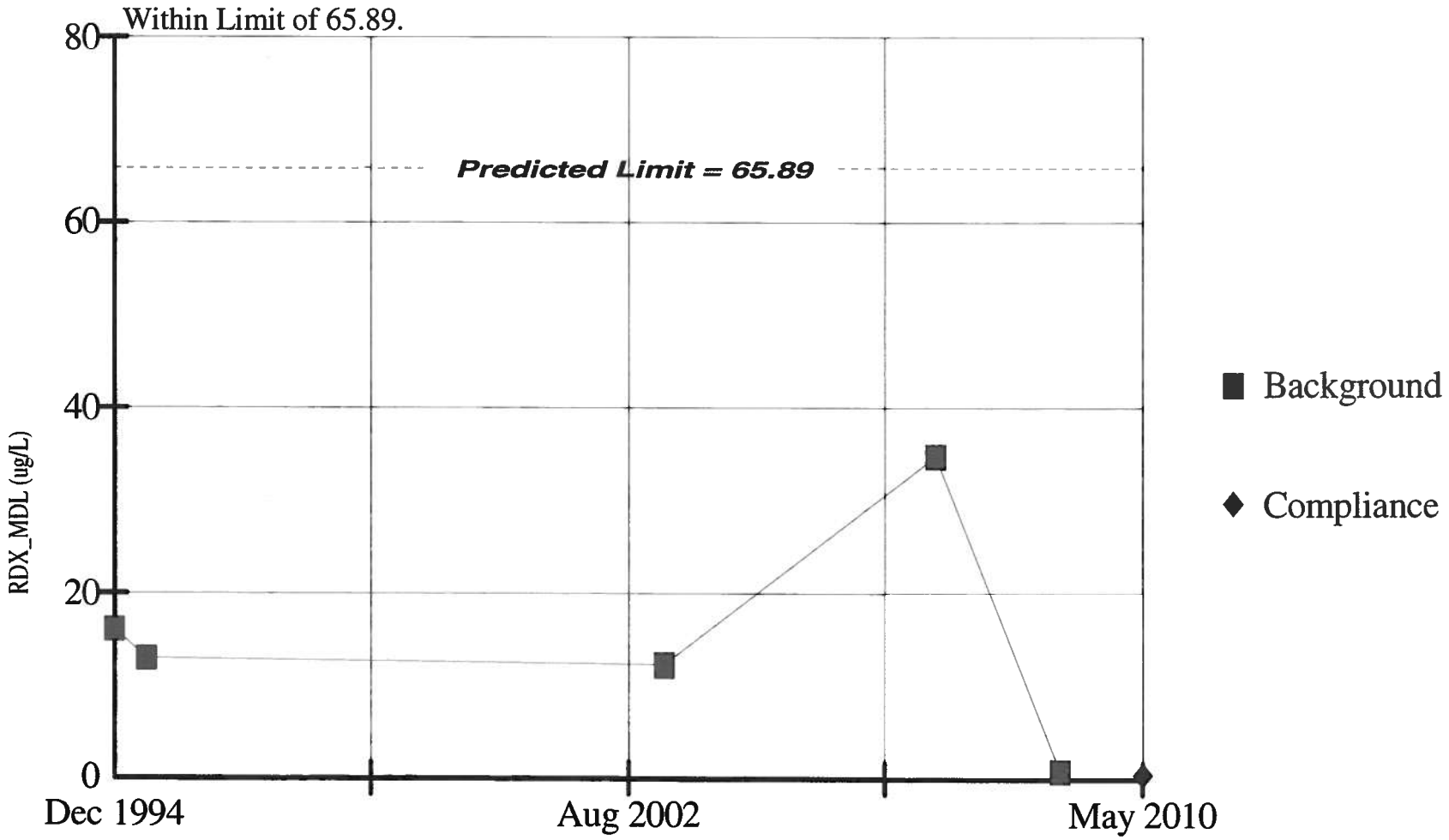
Trend not significant at 95% confidence level (two tailed). Critical value = -12.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:17 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-005B



Background Data Summary: Mean=15.36, Std. Dev=12.31, 0% nds, 5 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9126, W Quantile = 0.762 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L)

Date: 1/28/11, 12:59 PM

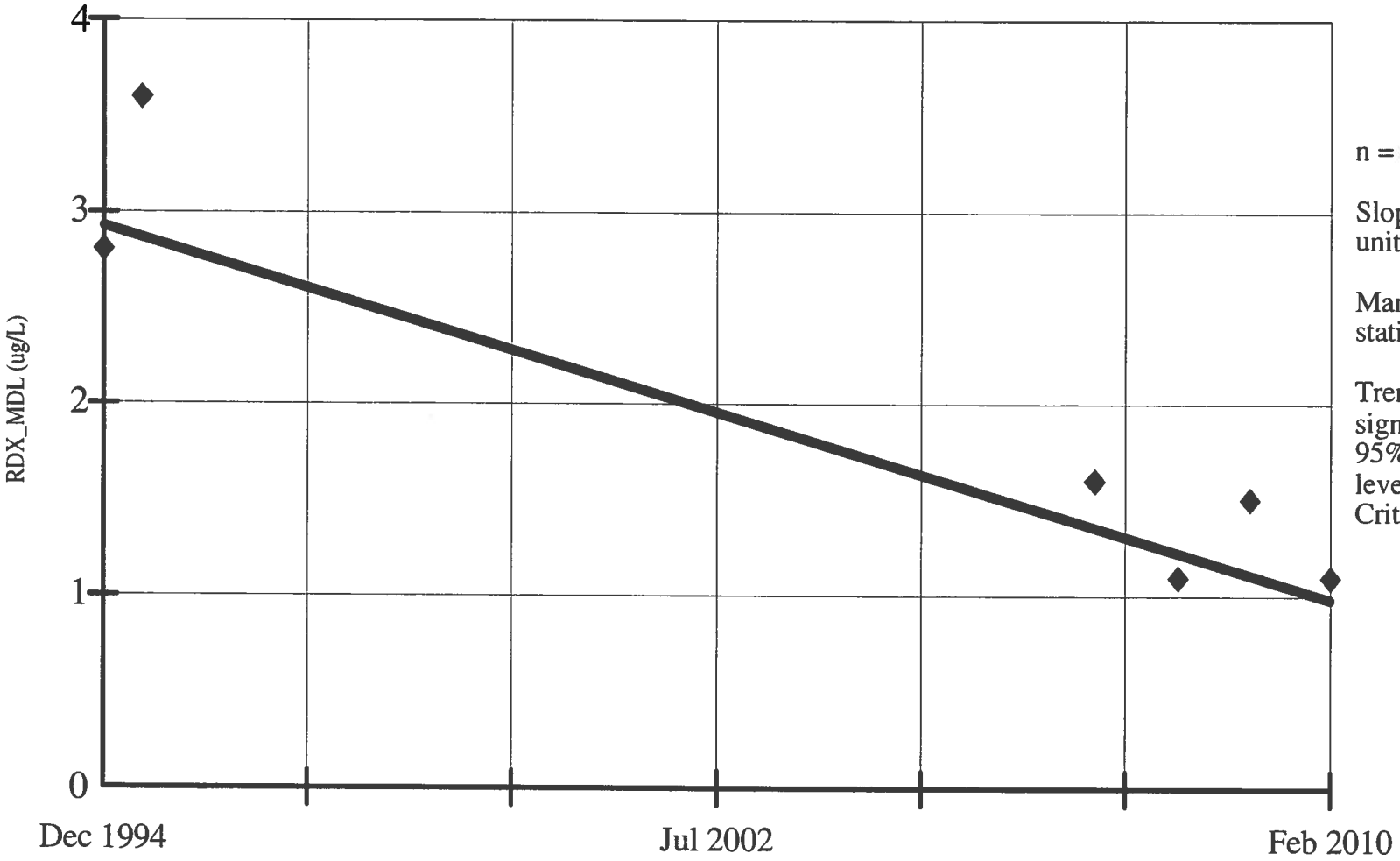
Facility: Mead FNOP

Client: ECC

Data File: Mead 2010 Annual Sanitas 2

View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-008B



n = 6.

Slope = -0.128 units per year.

Mann Kendall statistic = -10.

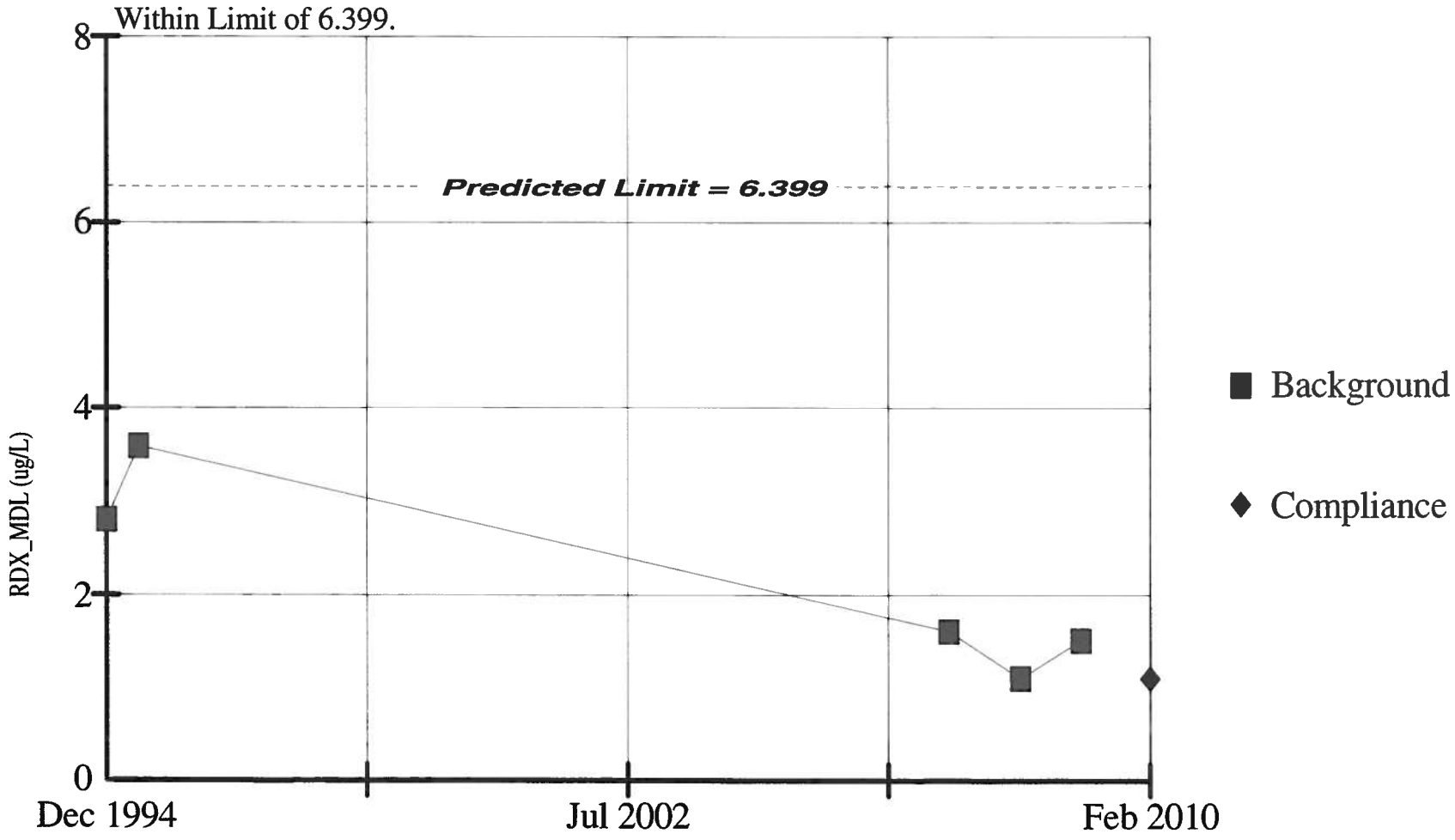
Trend not significant at 95% confidence level (two tailed). Critical value = -12.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:18 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-008B

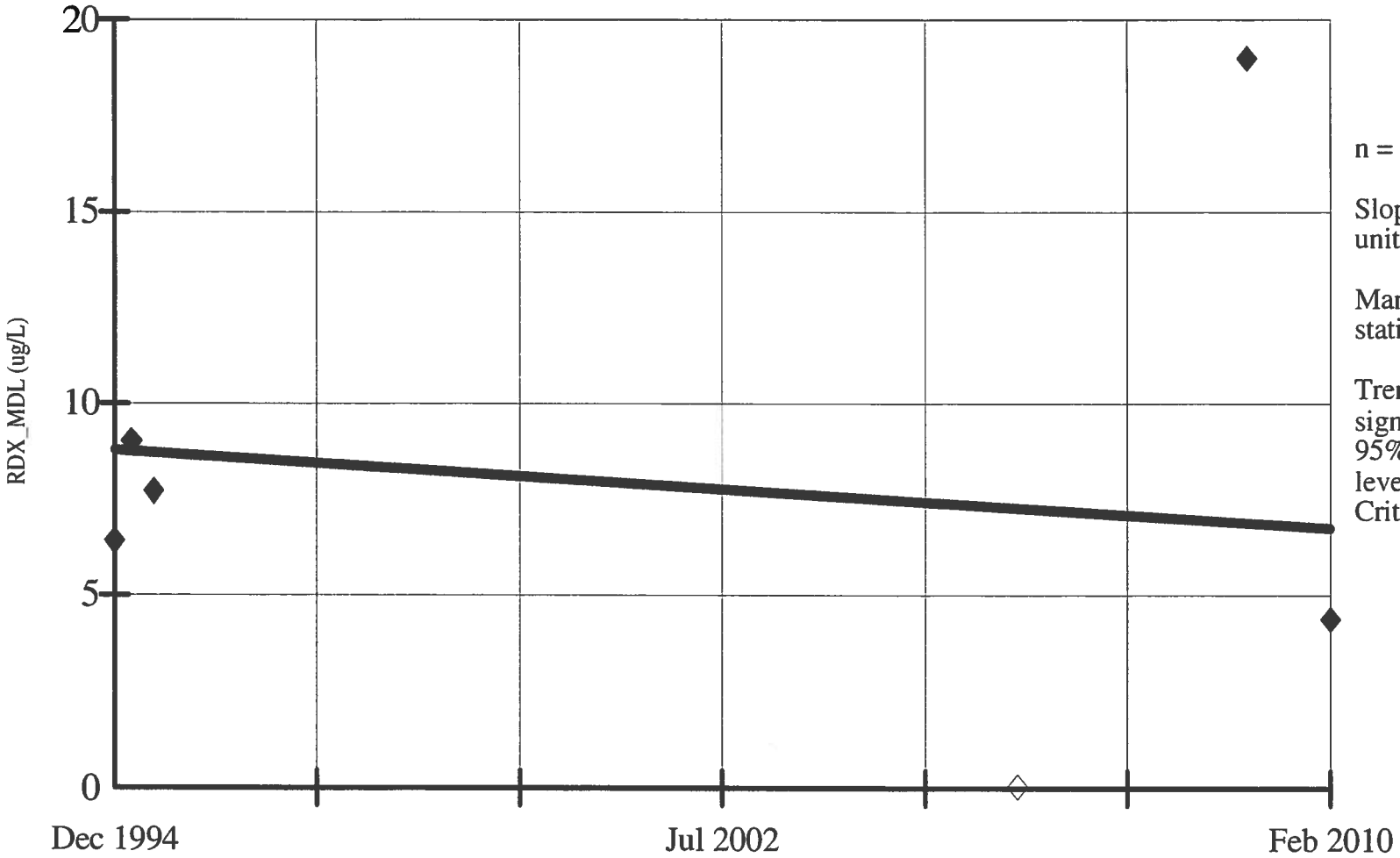


Background Data Summary: Mean=2.12, Std. Dev=1.043, 0% nds, 5 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8973, W Quantile = 0.762 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 12:59 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-011



n = 6.

Slope = -0.132 units per year.

Mann Kendall statistic = -1.

Trend not significant at 95% confidence level (two tailed). Critical value = -12.

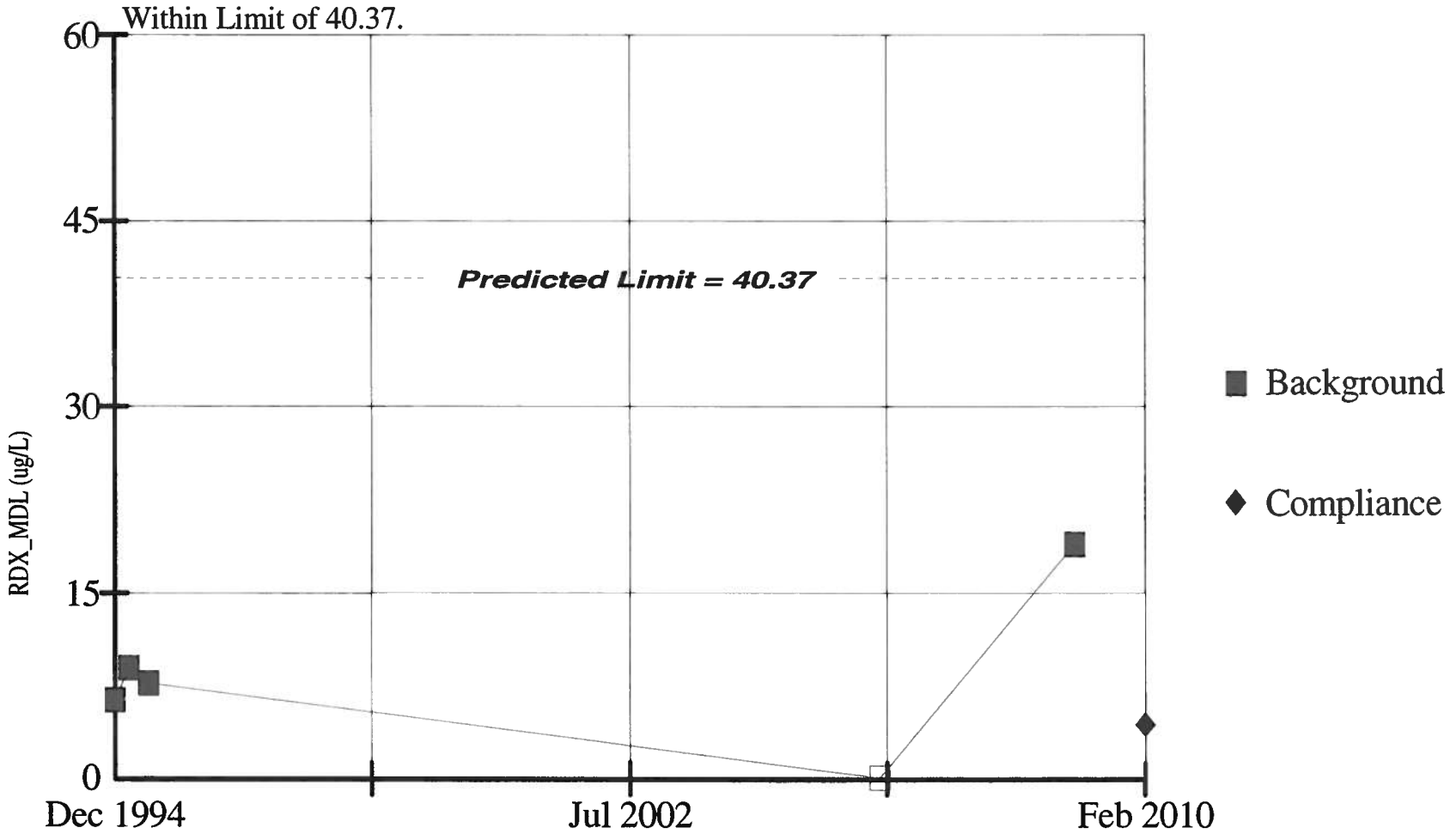
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:18 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-011

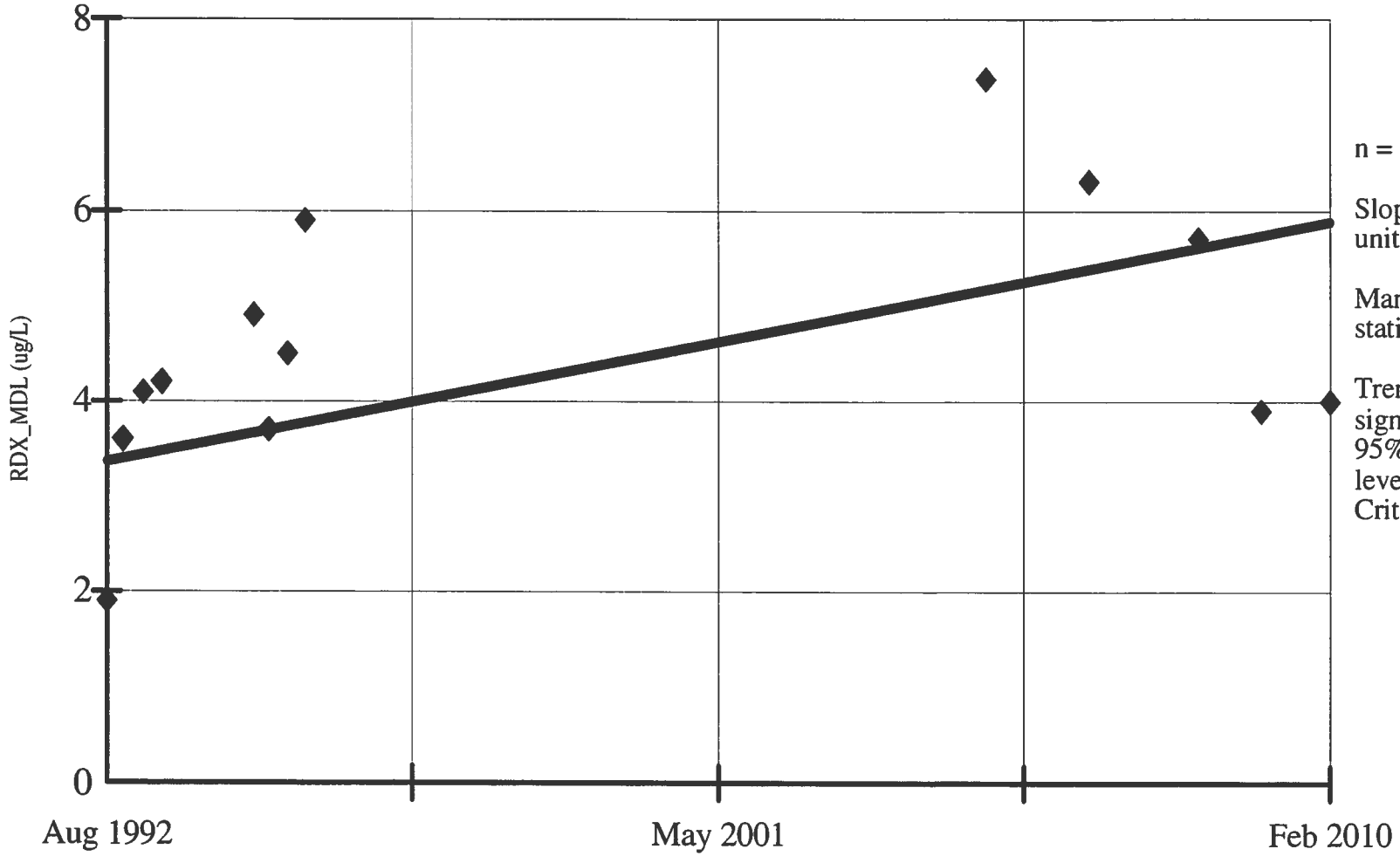


Background Data Summary: (after Cohen's adjustment) Mean=7.578, Std. Dev=7.99, 20% nds, 5 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9353, W Quantile = 0.762 at alpha = 0.05. Testwise alpha = 0.01 Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 12:59 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-018C



n = 13.

Slope = 0.143 units per year.

Mann Kendall statistic = 30.

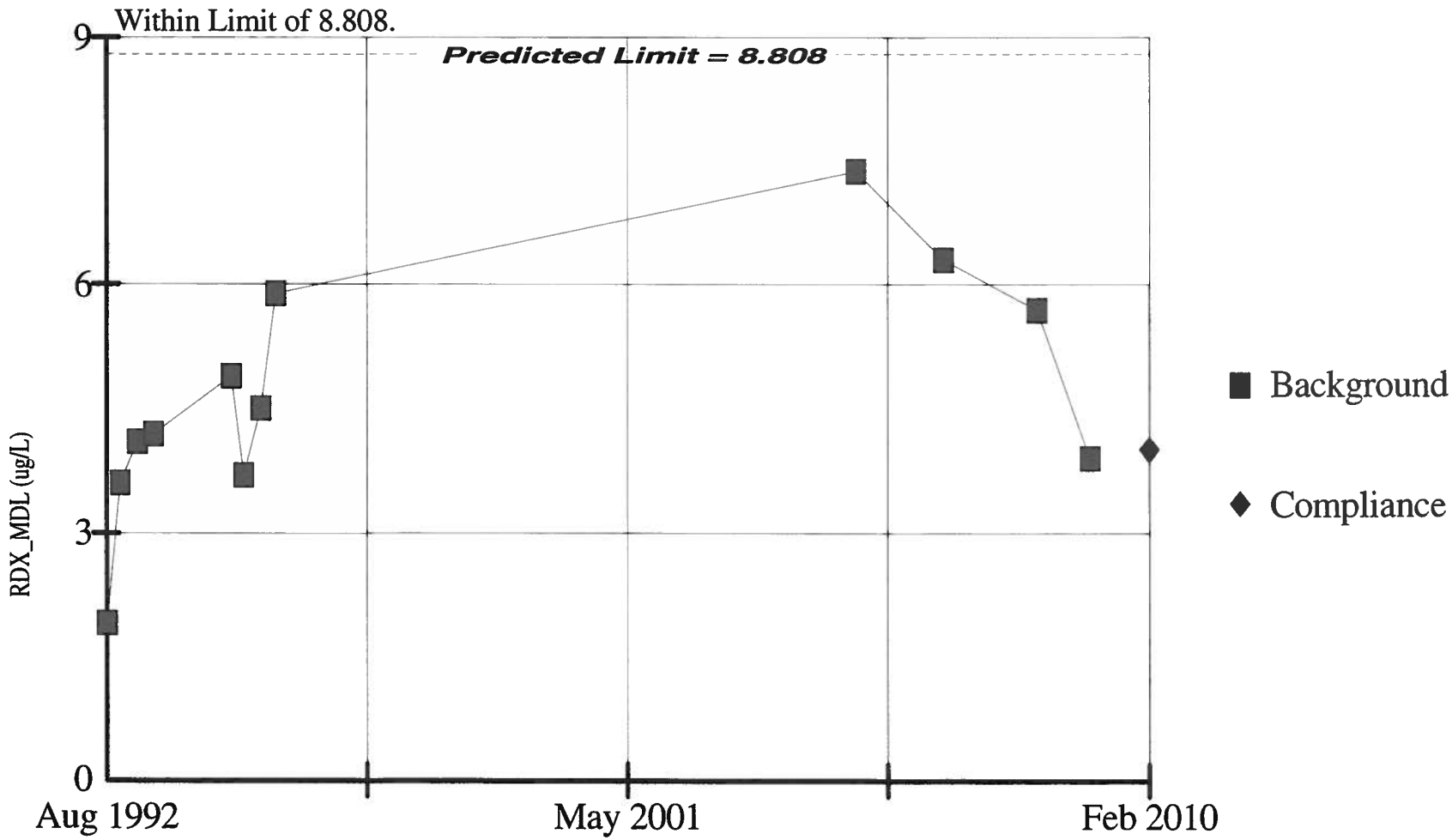
Trend not significant at 95% confidence level (two tailed). Critical value = 34.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:18 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-018C

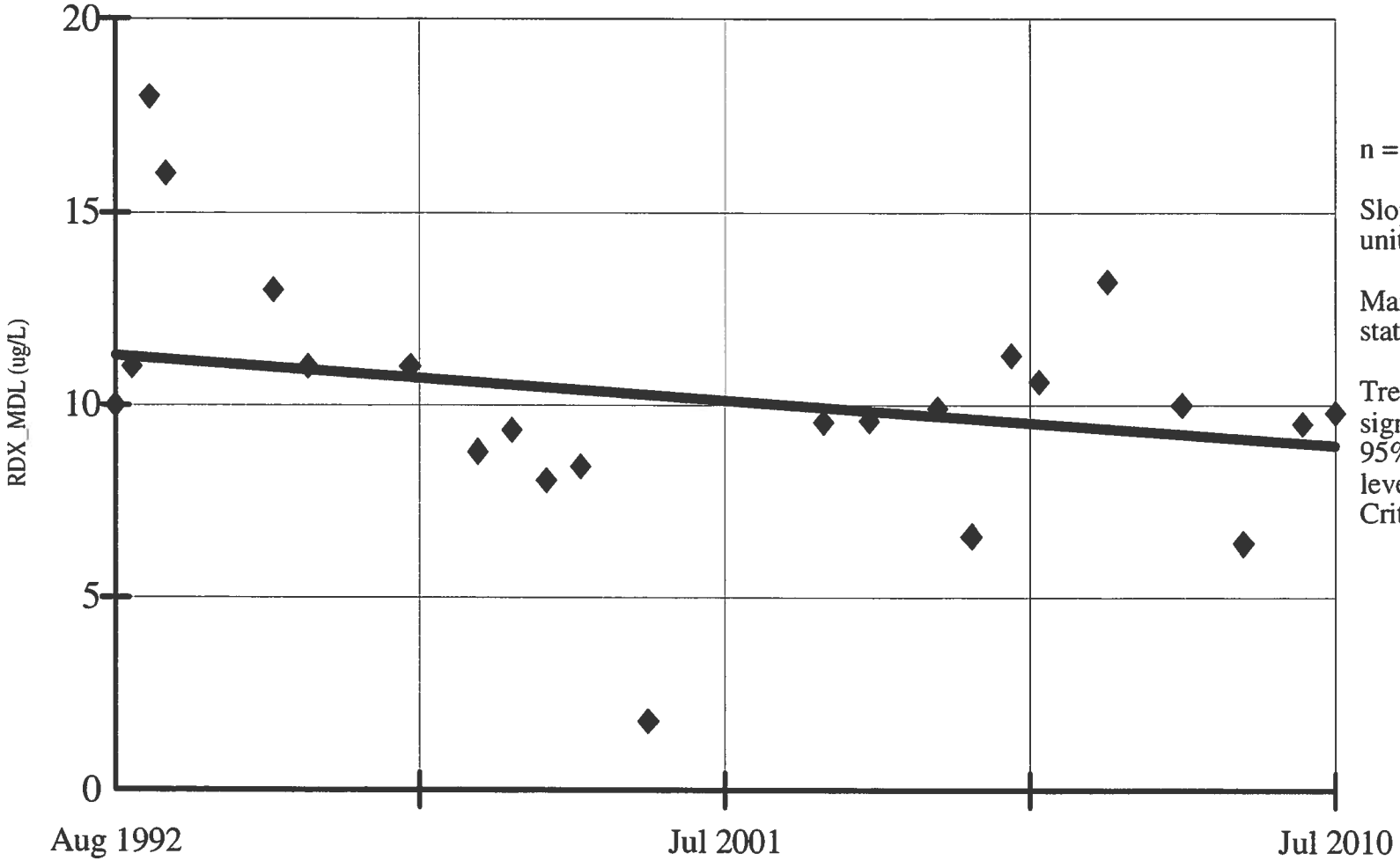


Background Data Summary: Mean=4.673, Std. Dev=1.462, 0% nds, 12 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9712, W Quantile = 0.859 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 12:59 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-021B



n = 23.

Slope = -0.132 units per year.

Mann Kendall statistic = -57.

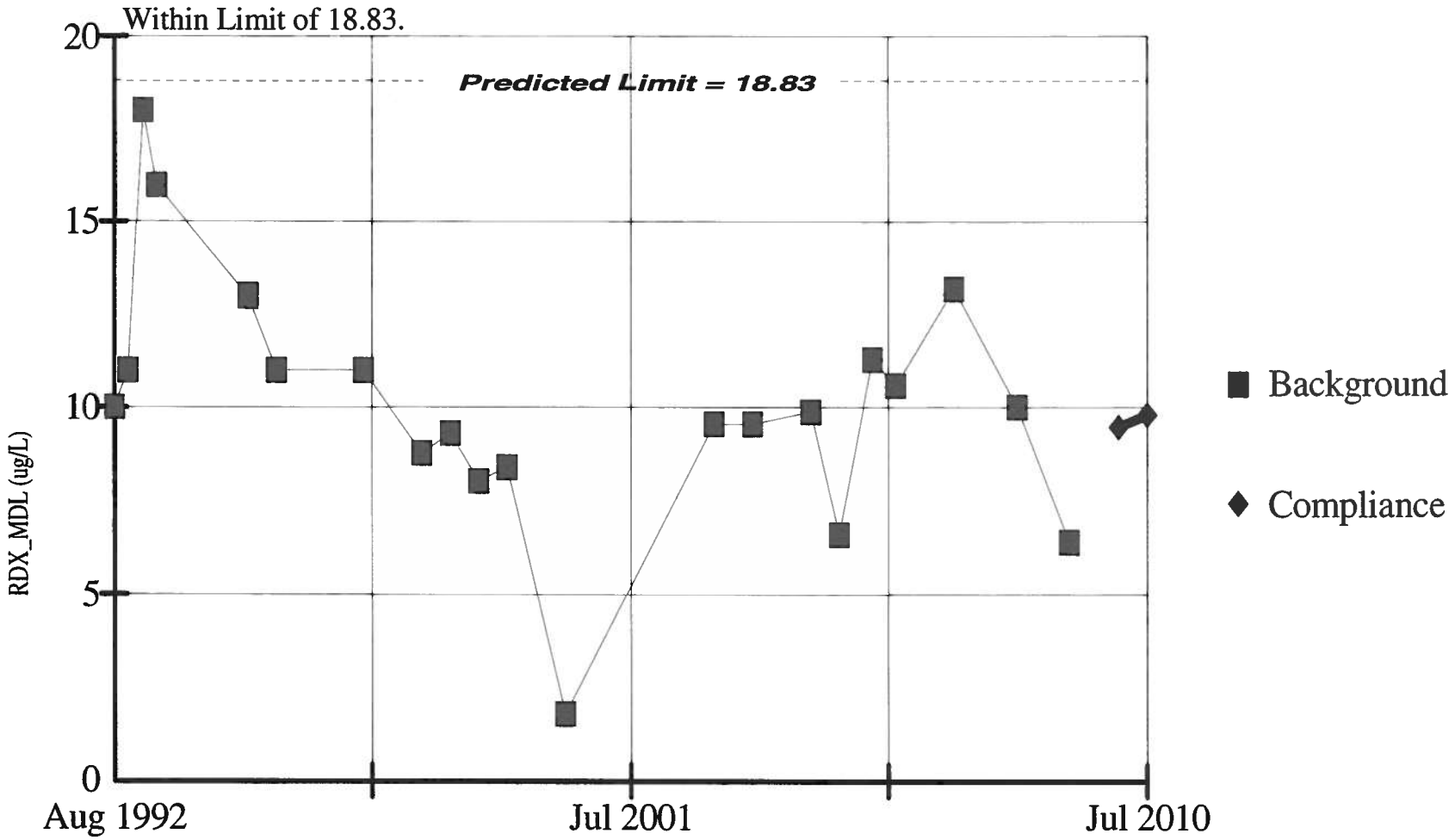
Trend not significant at 95% confidence level (two tailed). Critical value = -76.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:18 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-021B

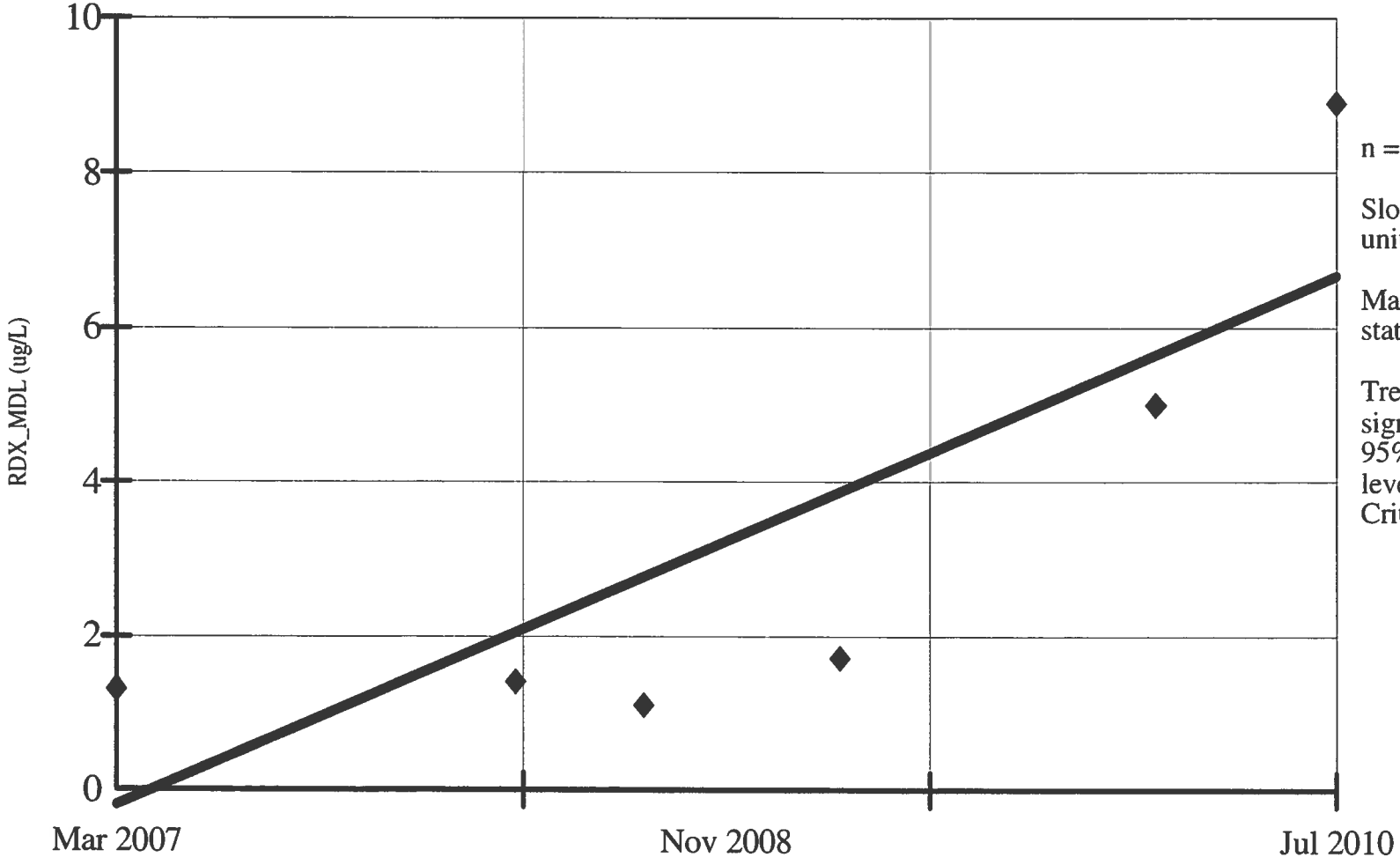


Background Data Summary: Mean=10.17, Std. Dev=3.348, 0% nds, 21 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9378, W Quantile = 0.908 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 12:59 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-024B



n = 6.

Slope = 2.031 units per year.

Mann Kendall statistic = 11.

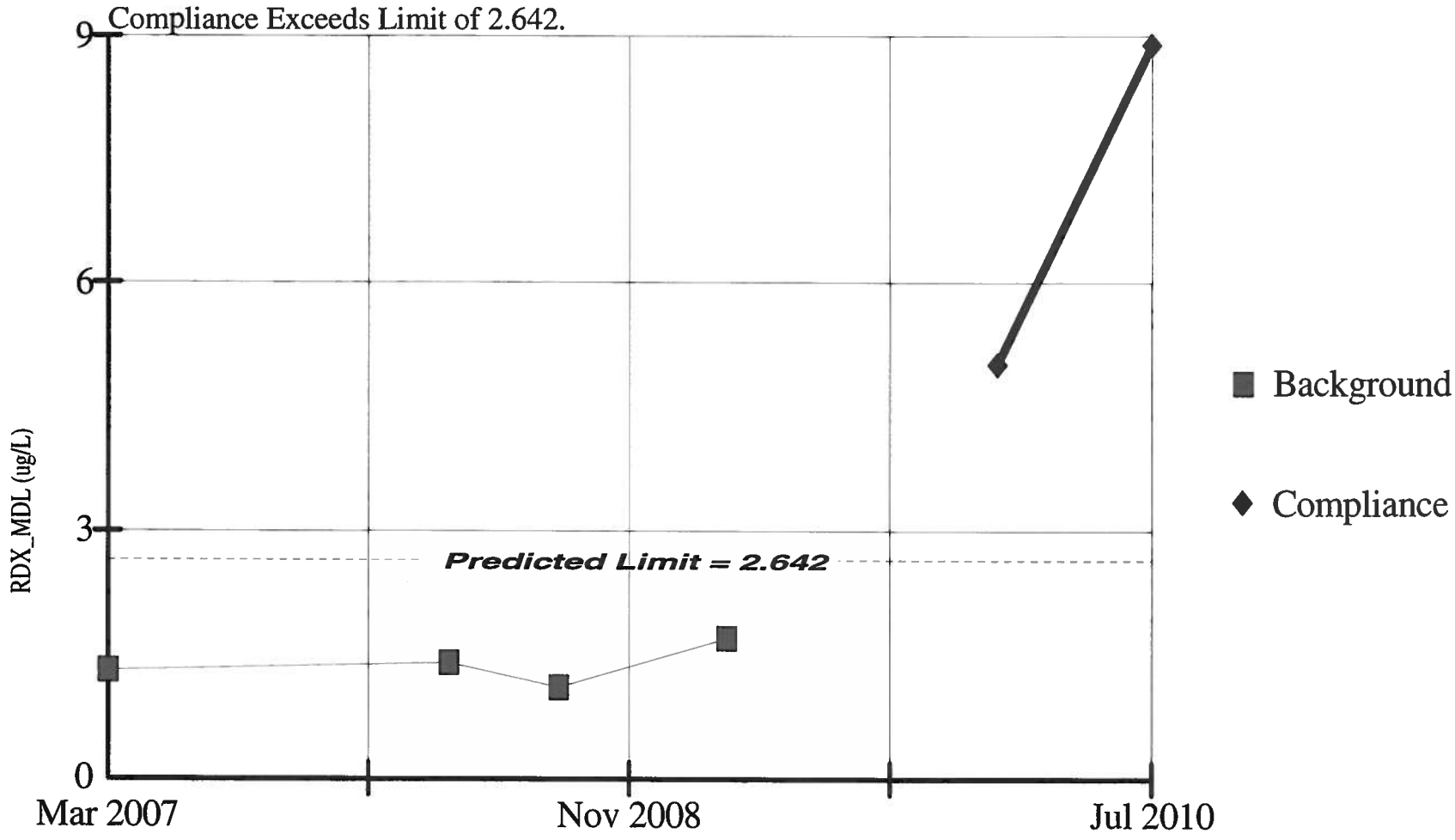
Trend not significant at 95% confidence level (two tailed). Critical value = 12.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:18 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-024B

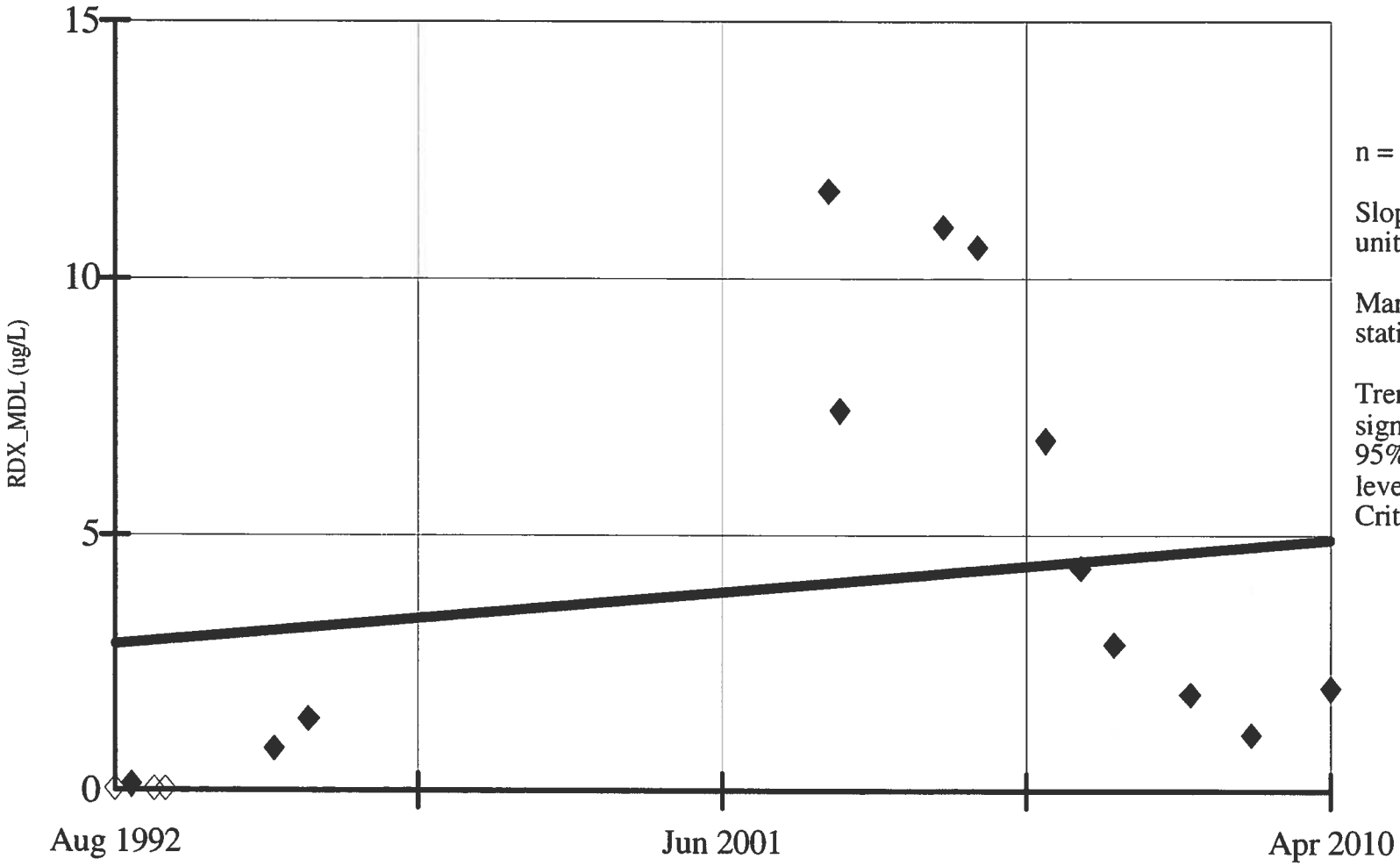


Background Data Summary: Mean=1.378, Std. Dev=0.249, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9818, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 12:59 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-028B



n = 16.

Slope = 0.115 units per year.

Mann Kendall statistic = 29.

Trend not significant at 95% confidence level (two tailed). Critical value = 45.

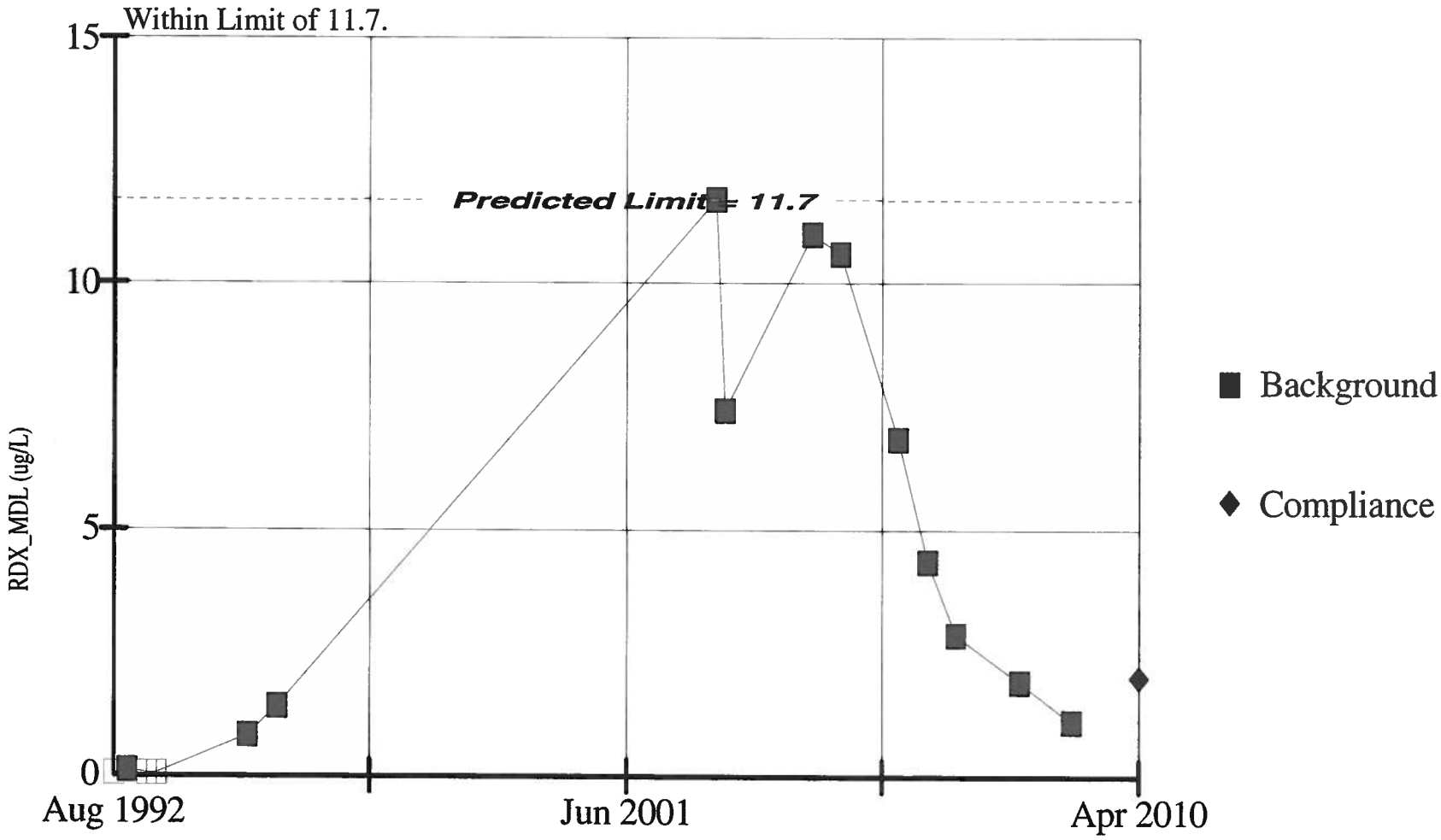
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:18 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-028B

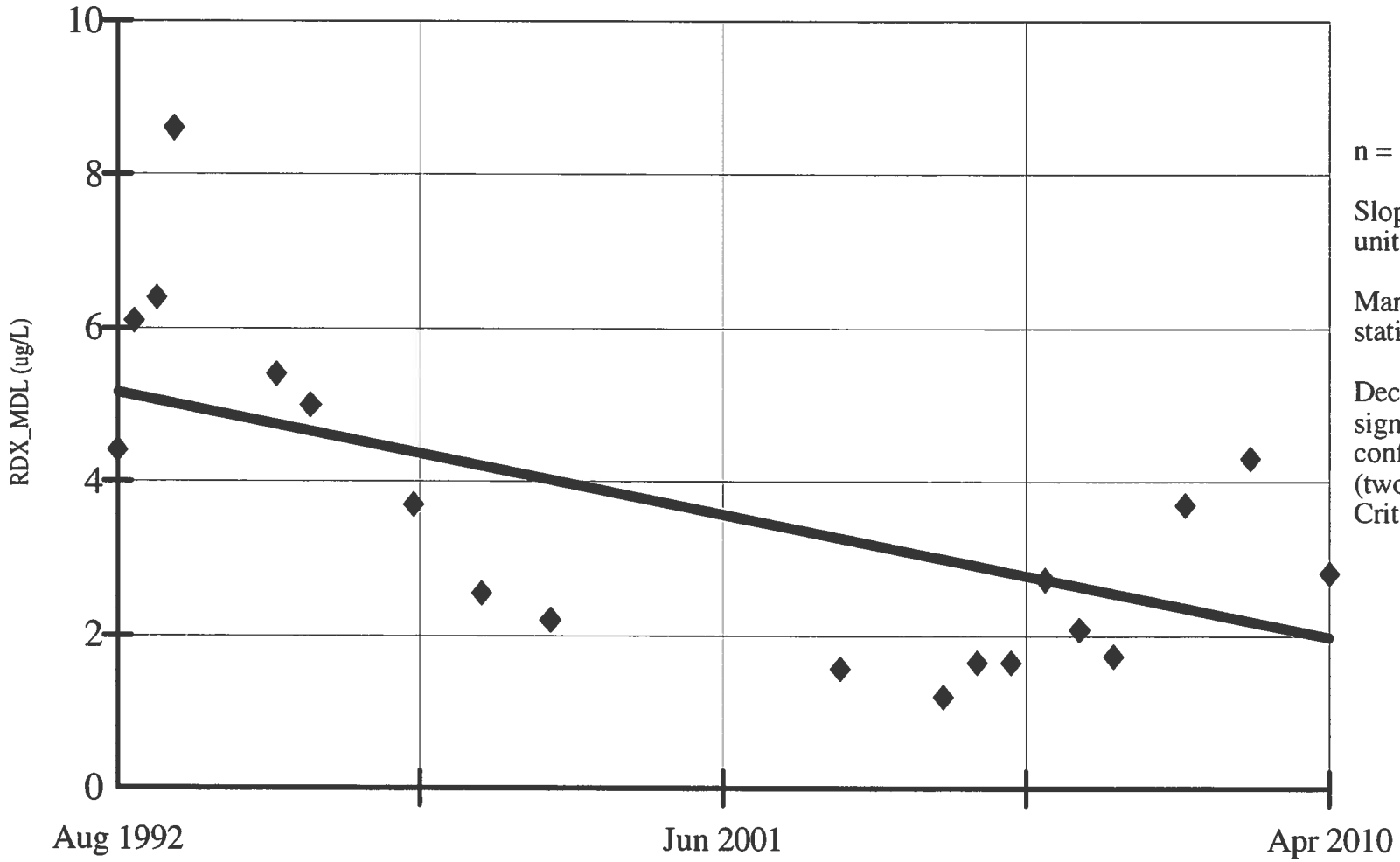


15 background obs. Testwise alpha = 0.0625 Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit because required power transformation and adjustment for non-detects are incompatible. NDs = 20%.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:00 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-029A



n = 19.

Slope = -0.179 units per year.

Mann Kendall statistic = -58.

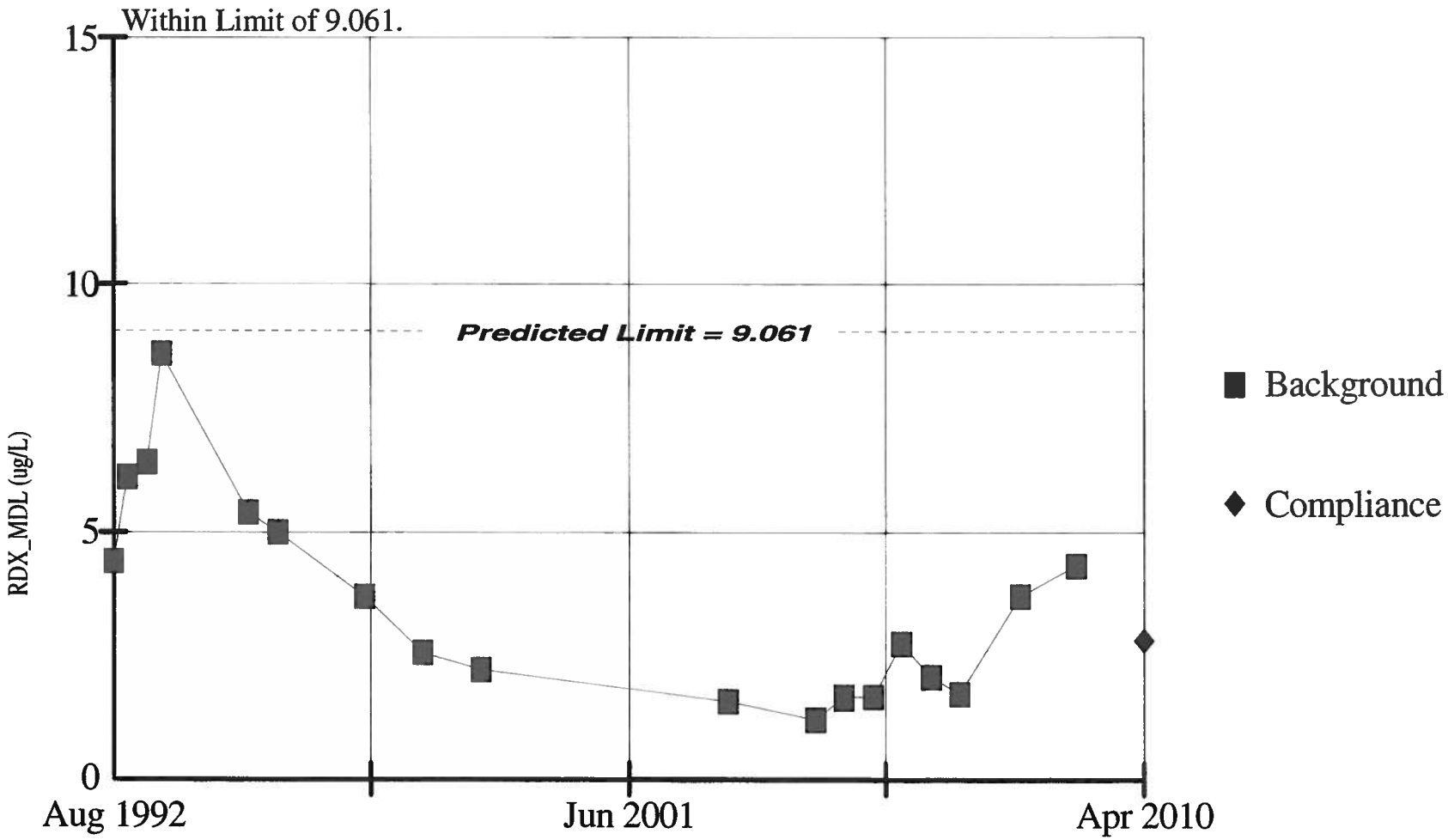
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -58.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:19 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-029A

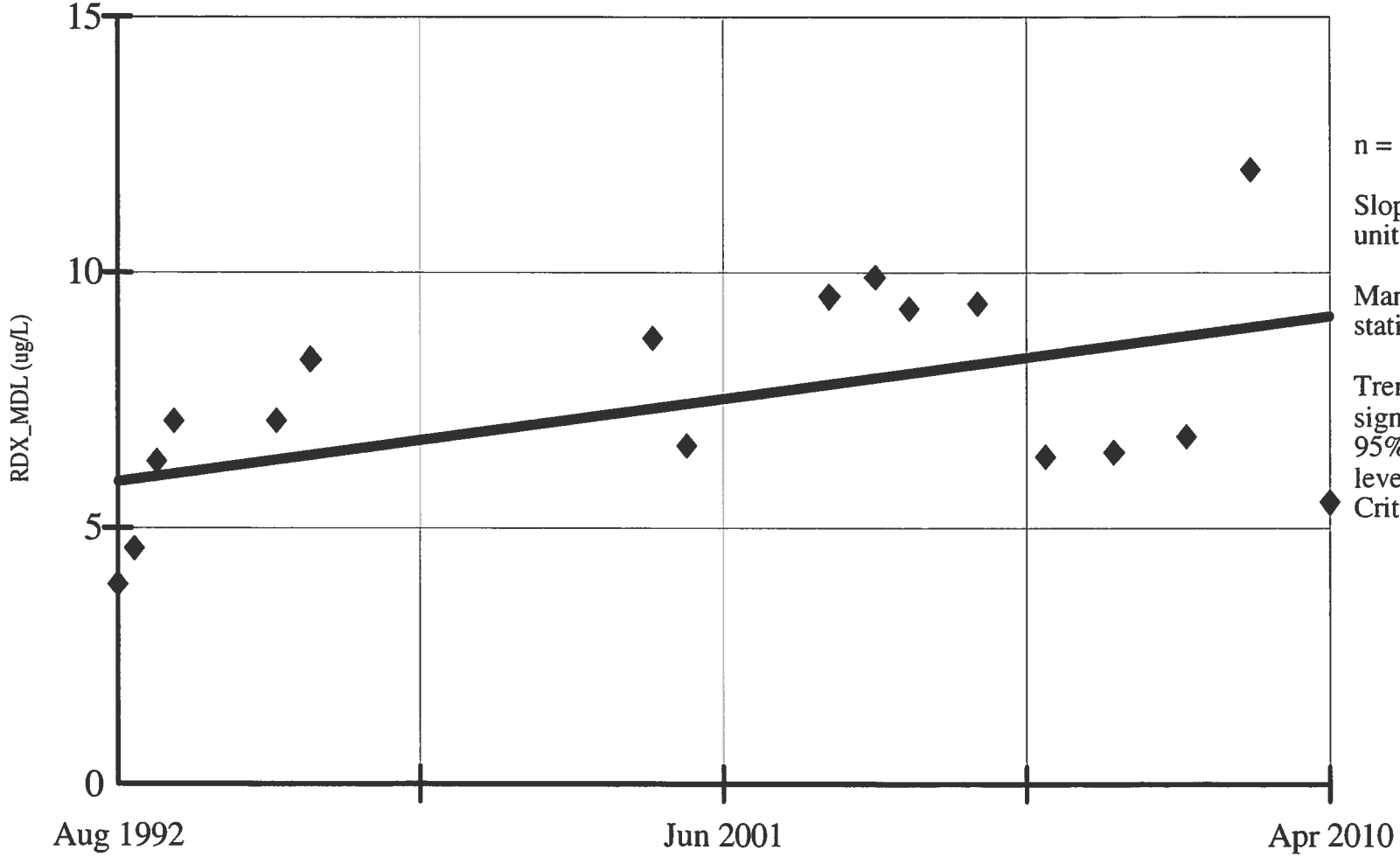


Background Data Summary: Mean=3.606, Std. Dev=2.068, 0% nds, 18 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9106, W Quantile = 0.897 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:00 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-032A



n = 17.

Slope = 0.18 units per year.

Mann Kendall statistic = 39.

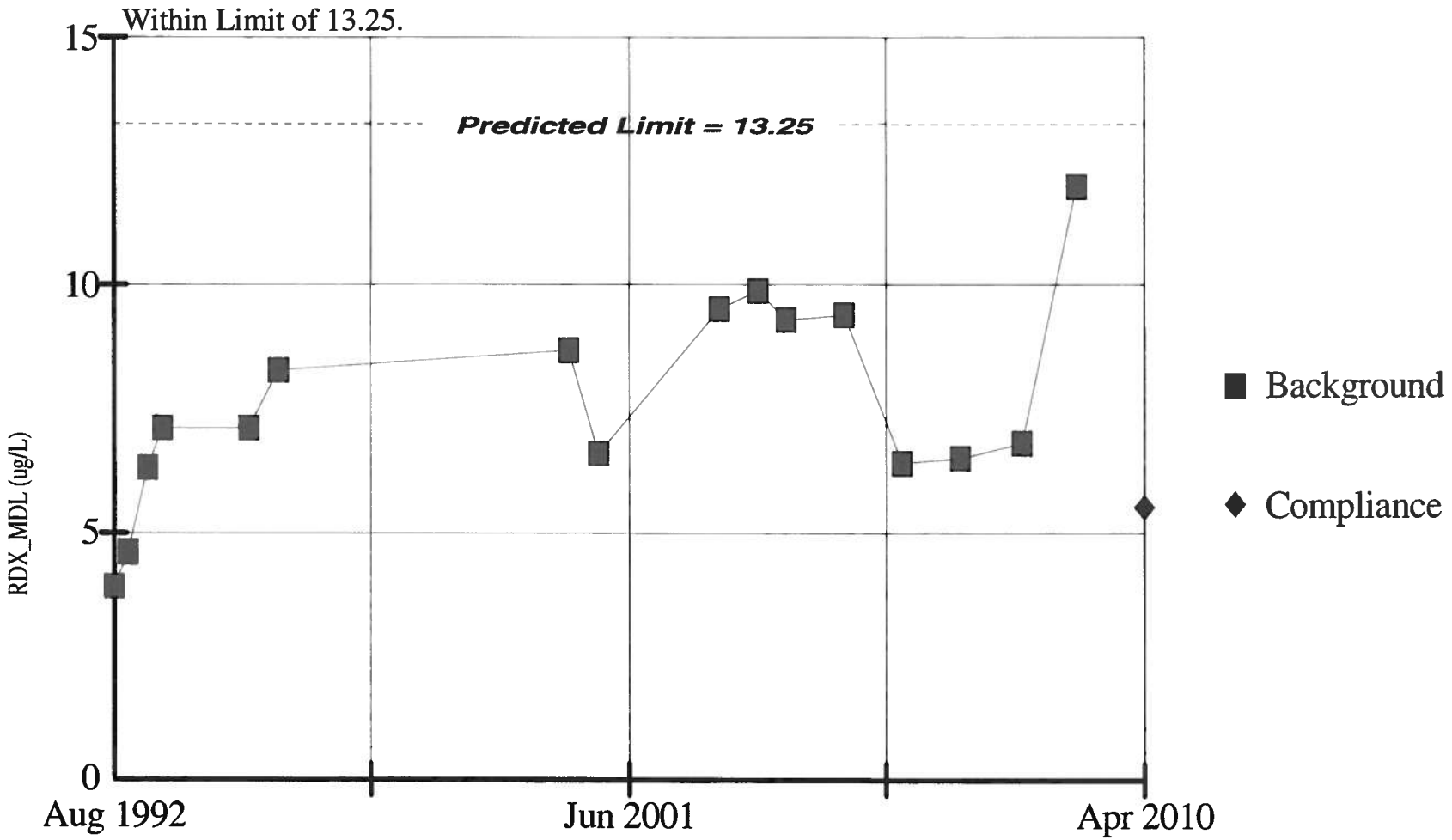
Trend not significant at 95% confidence level (two tailed). Critical value = 49.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:19 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-032A

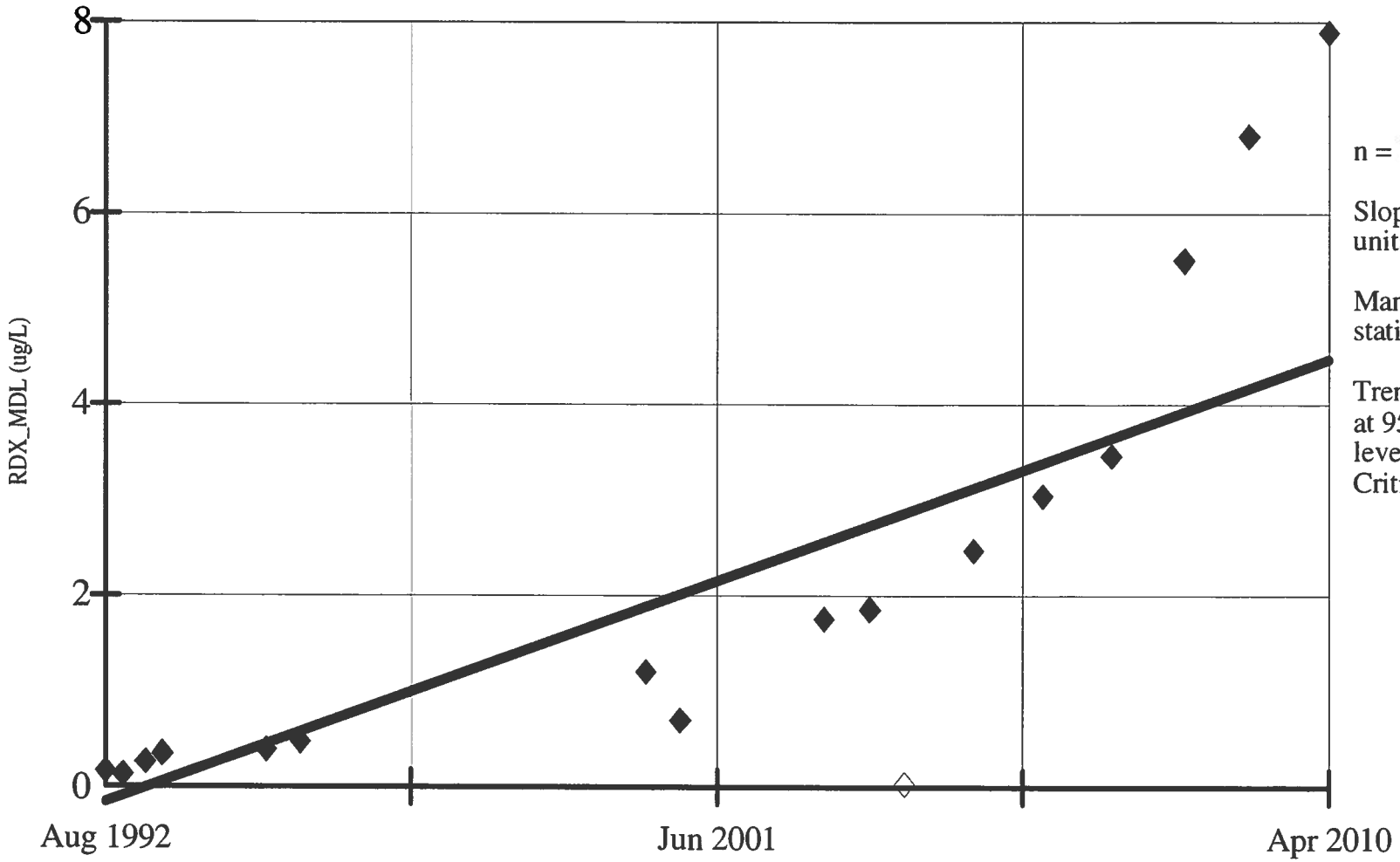


Background Data Summary: Mean=7.649, Std. Dev=2.087, 0% nds, 16 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9651, W Quantile = 0.887 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:00 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-032B



n = 17.

Slope = 0.261 units per year.

Mann Kendall statistic = 112.

Trend significant at 95% confidence level (two tailed). Critical value = 49.

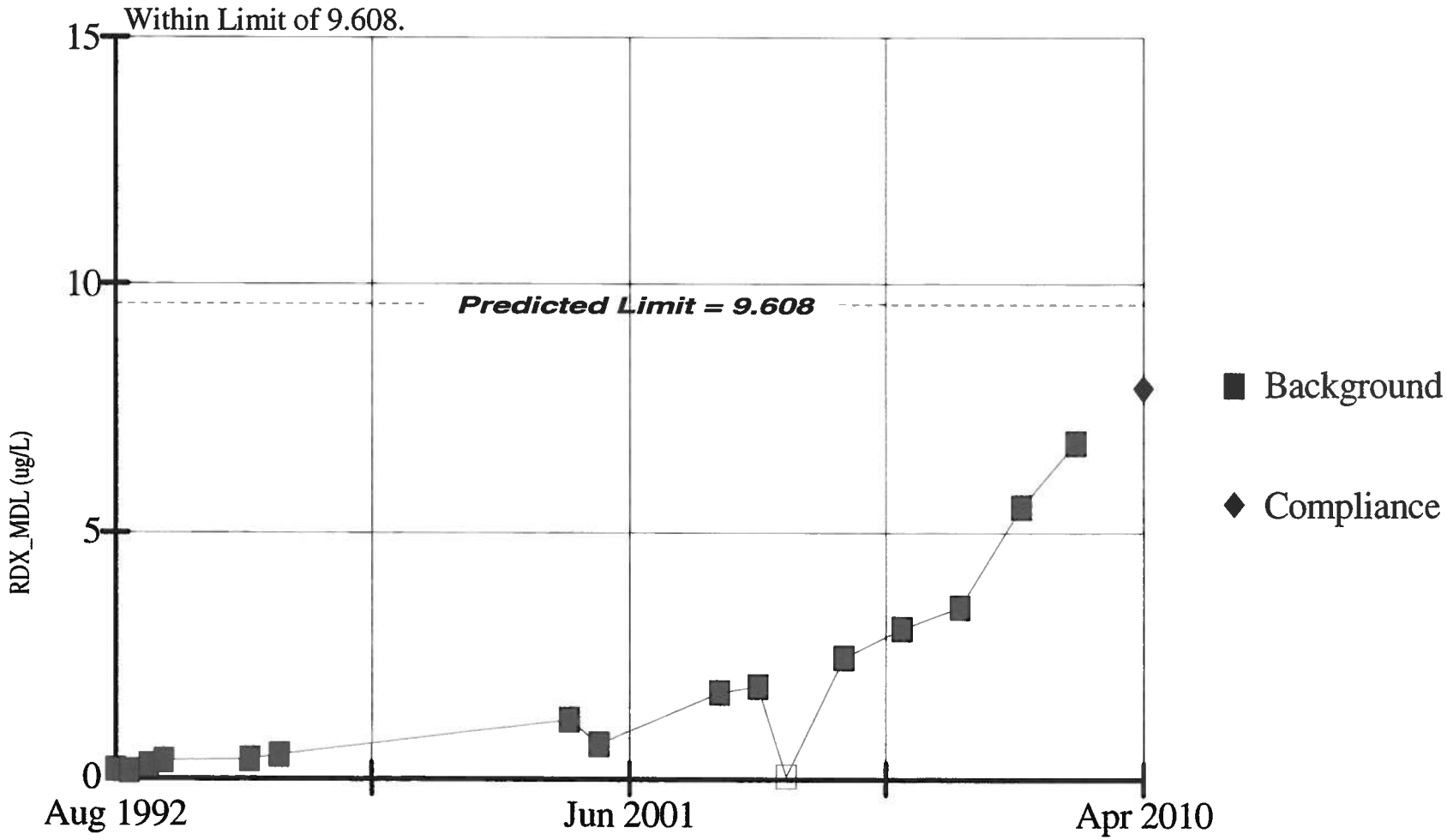
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:19 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-032B

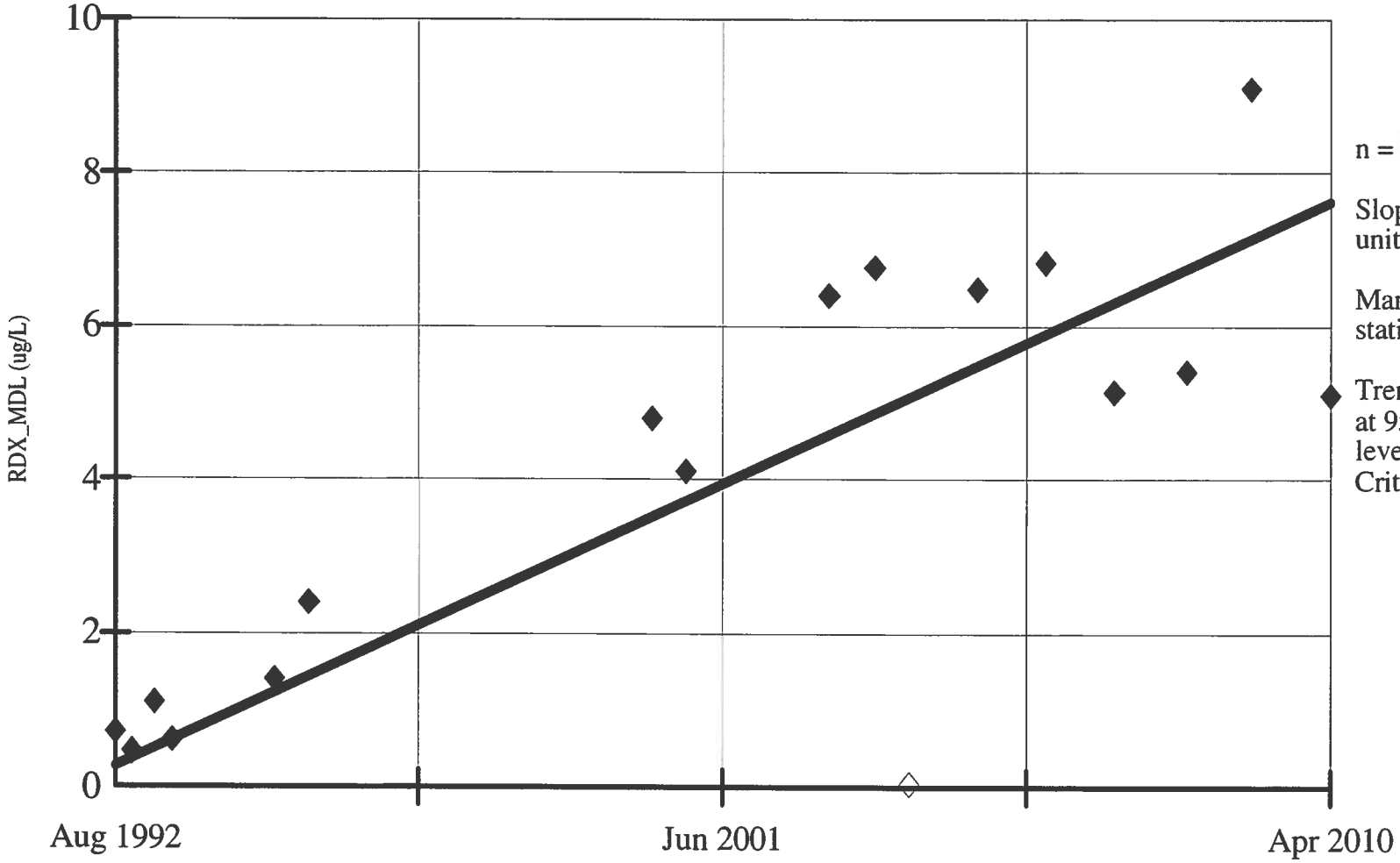


Background Data Summary: (based on square root(x) transformed data) Mean=1.133, Std. Dev=0.733, 6.25% nds, 16 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9291, W Quantile = 0.887 at alpha = 0.05. Testwise alpha = 0.01 Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:00 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-032D



n = 17.

Slope = 0.414 units per year.

Mann Kendall statistic = 76.

Trend significant at 95% confidence level (two tailed). Critical value = 49.

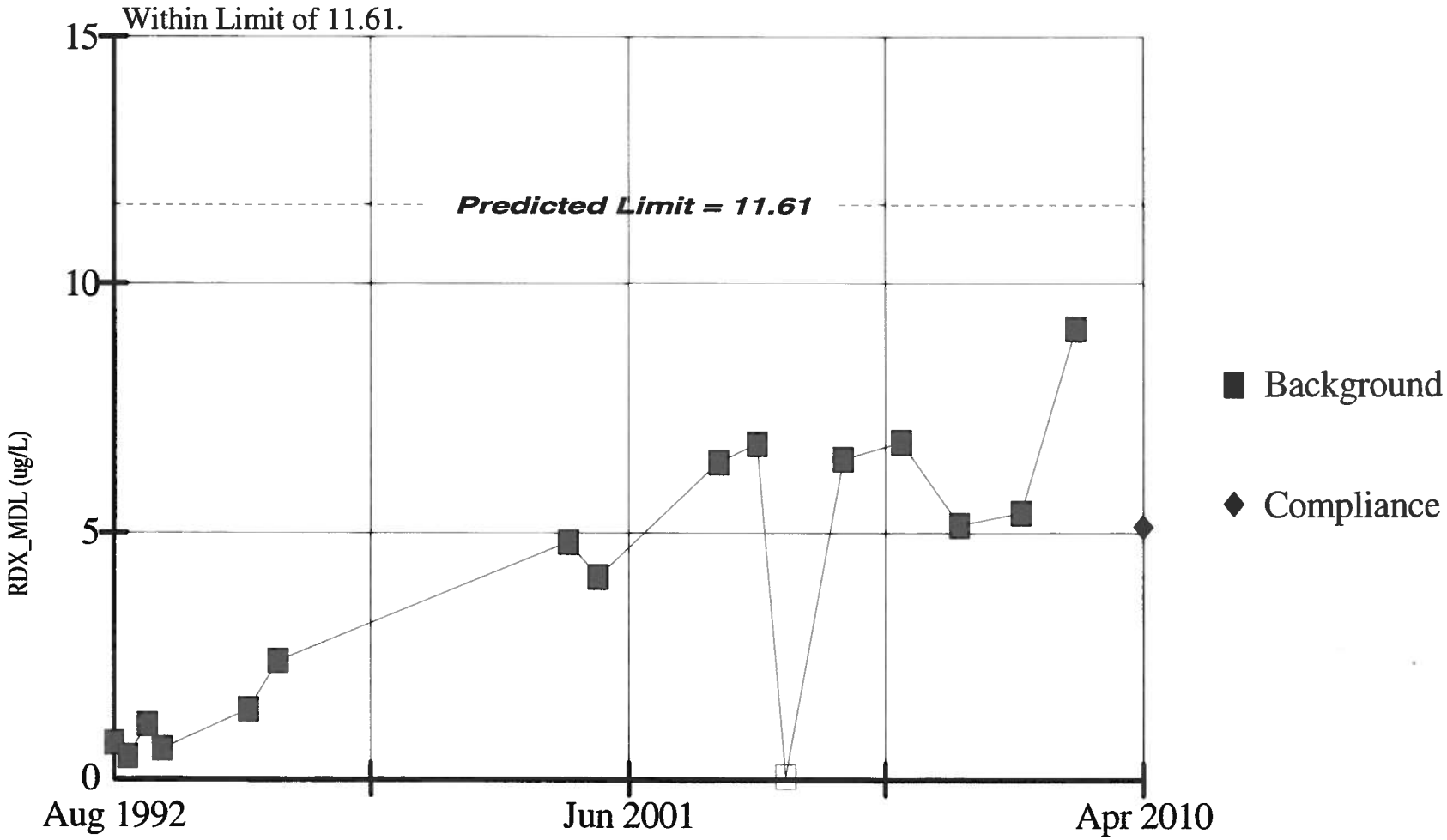
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:19 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-032D

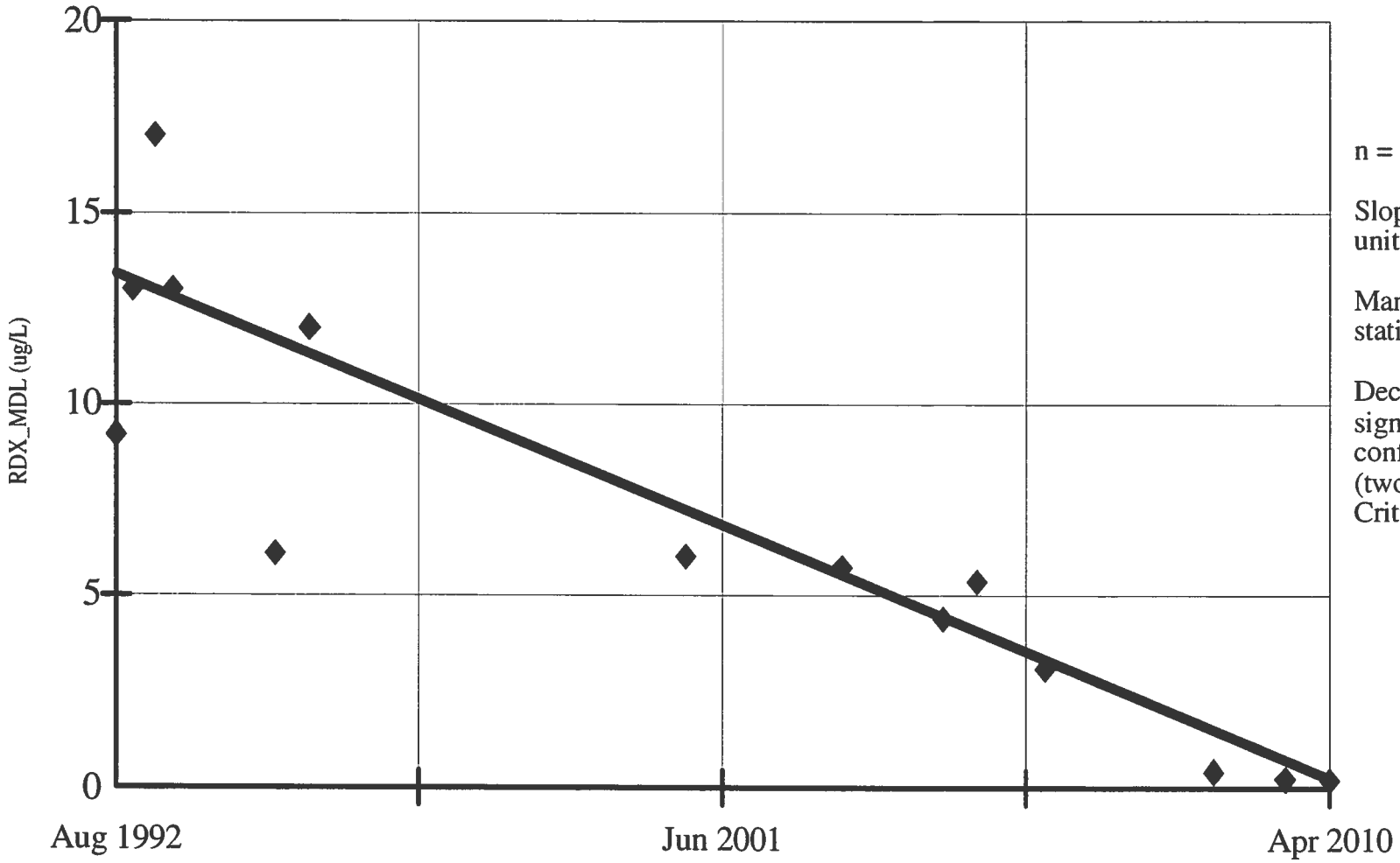


Background Data Summary: Mean=3.857, Std. Dev=2.889, 6.25% nds, 16 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9115, W Quantile = 0.887 at alpha = 0.05. Testwise alpha = 0.01 Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:00 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-033A



n = 14.

Slope = -0.742 units per year.

Mann Kendall statistic = -76.

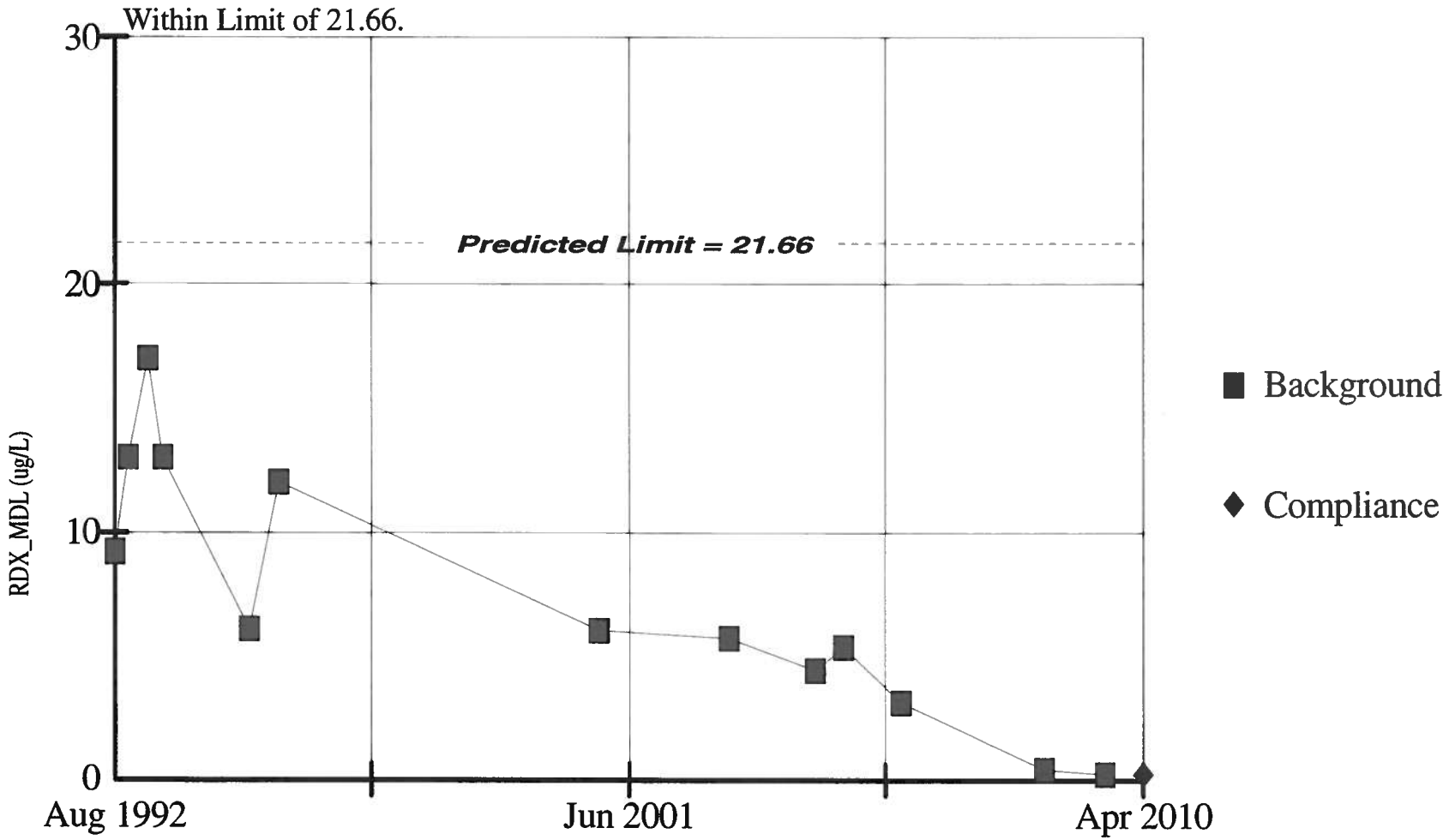
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -37.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:19 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-033A

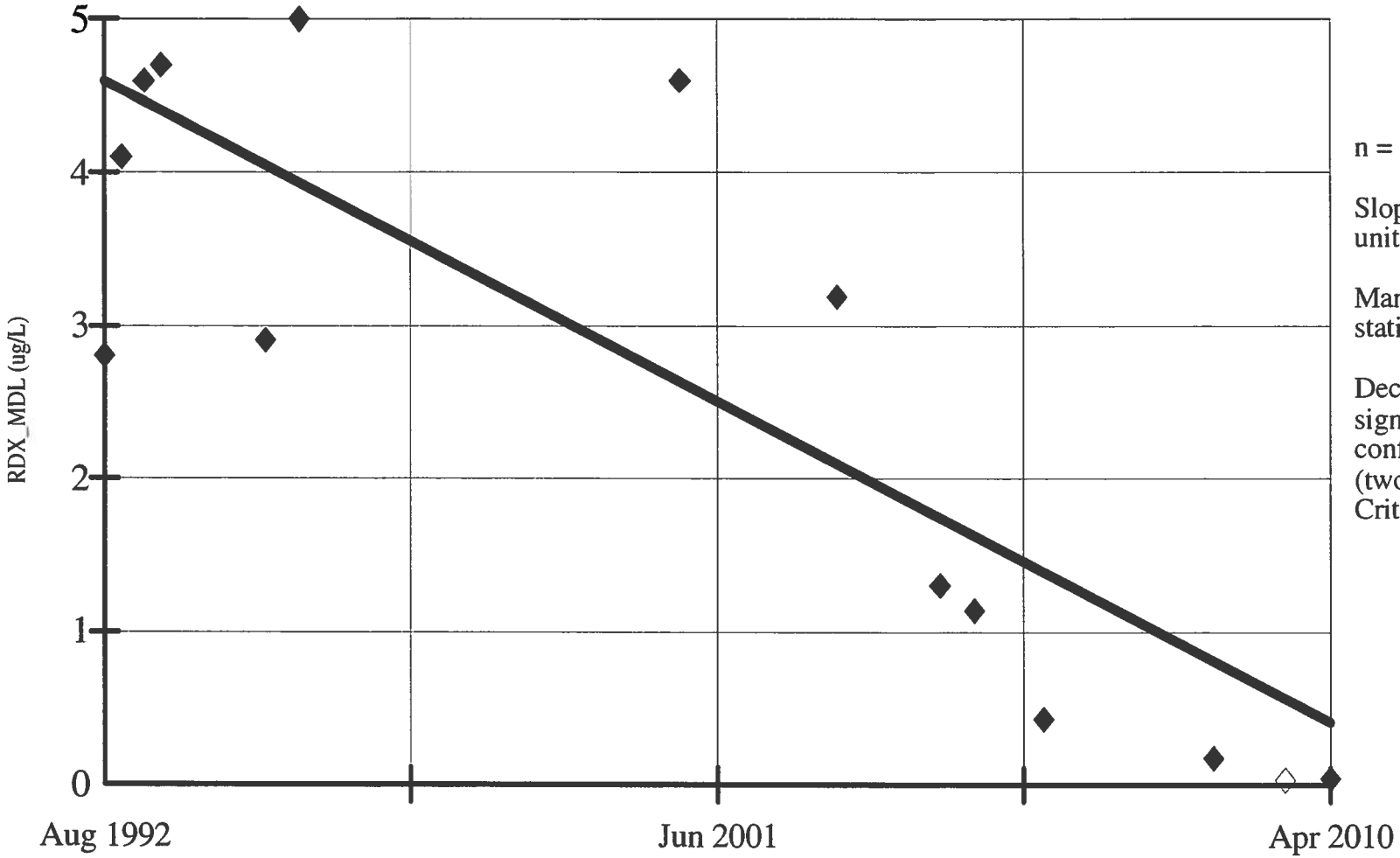


Background Data Summary: Mean=7.351, Std. Dev=5.142, 0% nds, 13 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9425, W Quantile = 0.866 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:00 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-033B



n = 14.

Slope = -0.236 units per year.

Mann Kendall statistic = -54.

Decreasing trend significant at 95% confidence level (two tailed). Critical value = -37.

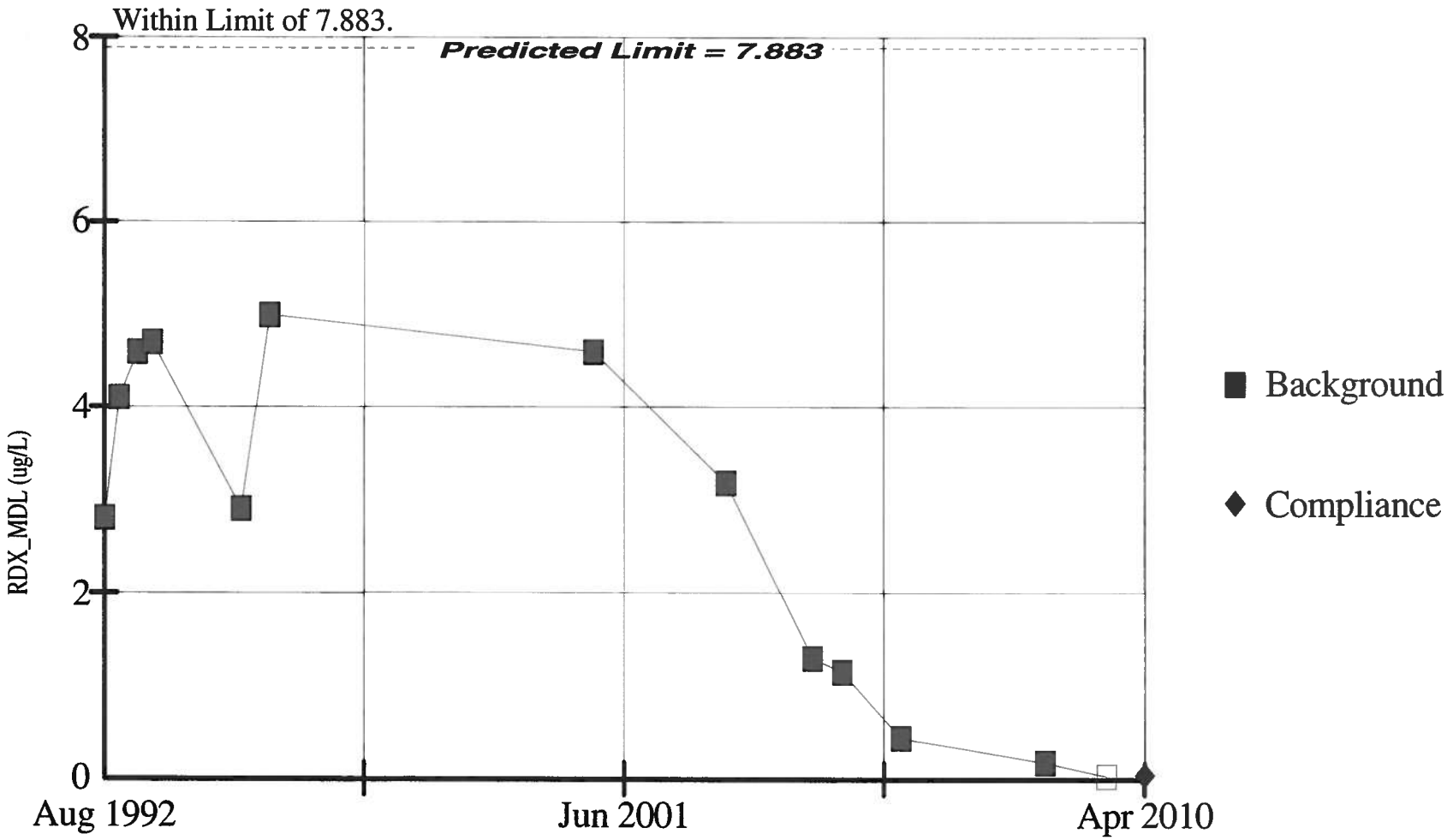
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:19 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-033B

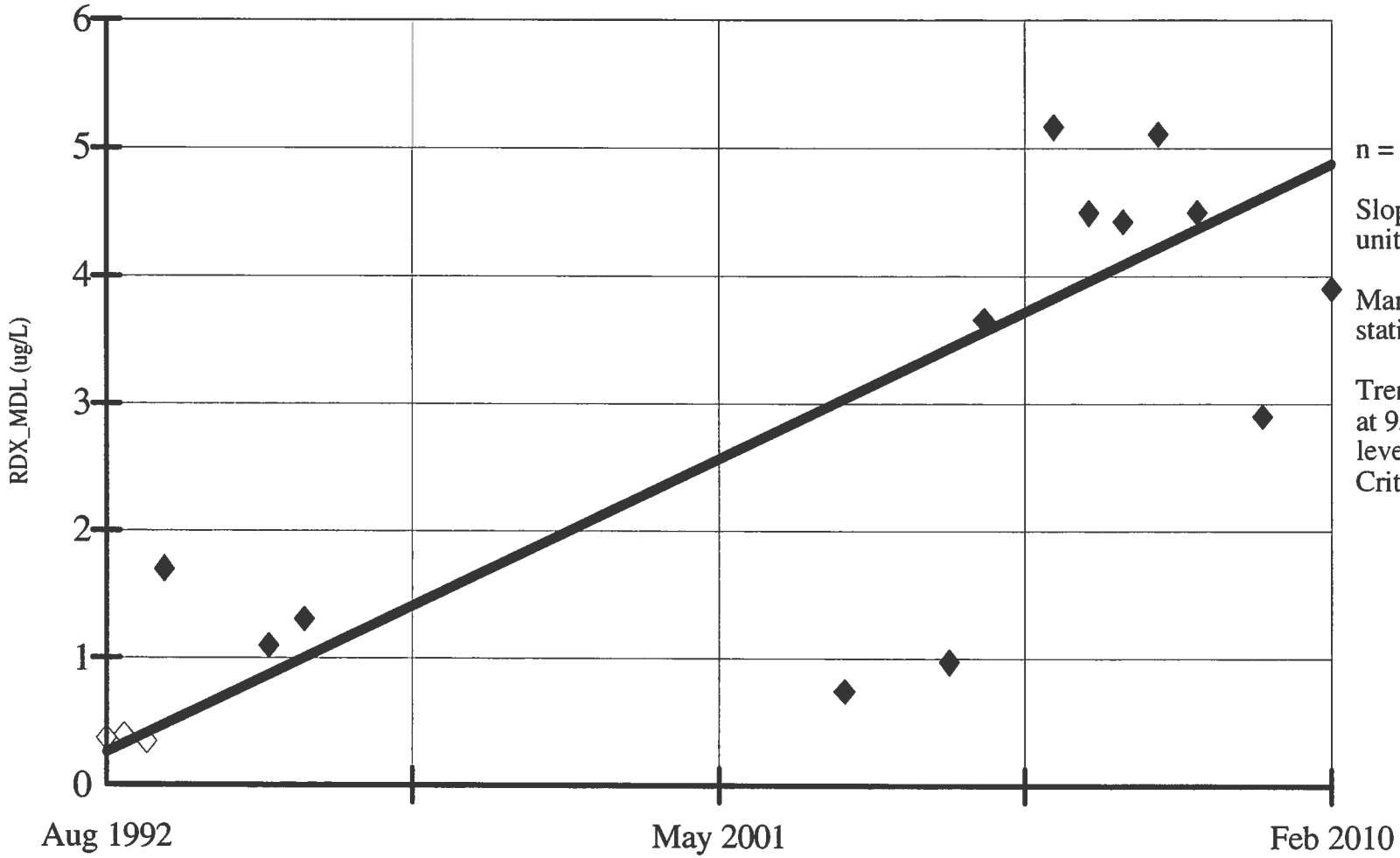


Background Data Summary: Mean=2.69, Std. Dev=1.867, 7.692% nds, 13 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8878, W Quantile = 0.866 at alpha = 0.05. Testwise alpha = 0.01 Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:00 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-042A



n = 16.

Slope = 0.263 units per year.

Mann Kendall statistic = 66.

Trend significant at 95% confidence level (two tailed). Critical value = 45.

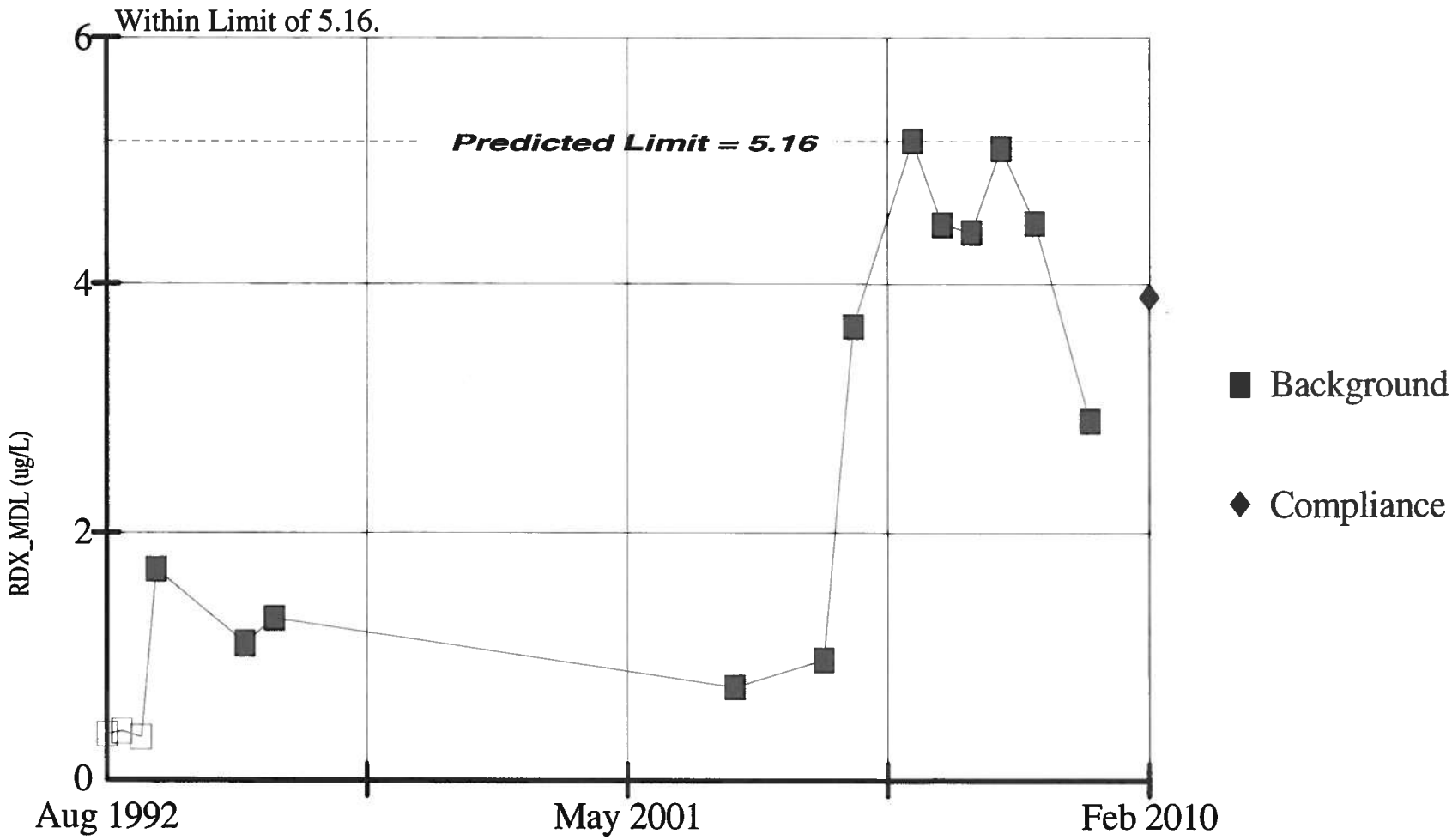
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:20 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-042A

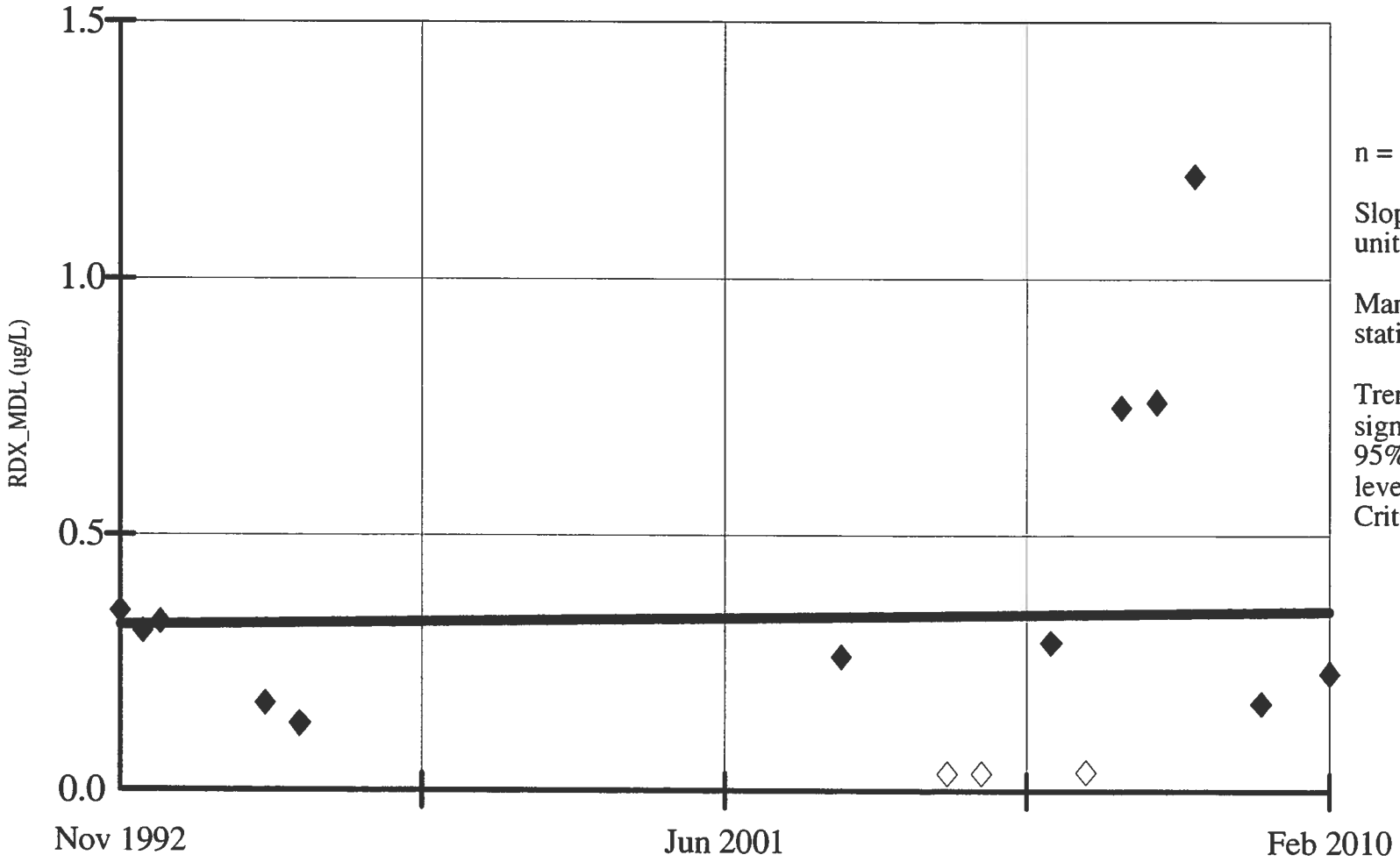


15 background obs. Testwise alpha = 0.0625 Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit after ladder of powers failed to adequately normalize data.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:01 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-042B



n = 15.

Slope = 0.002 units per year.

Mann Kendall statistic = 3.

Trend not significant at 95% confidence level (two tailed). Critical value = 41.

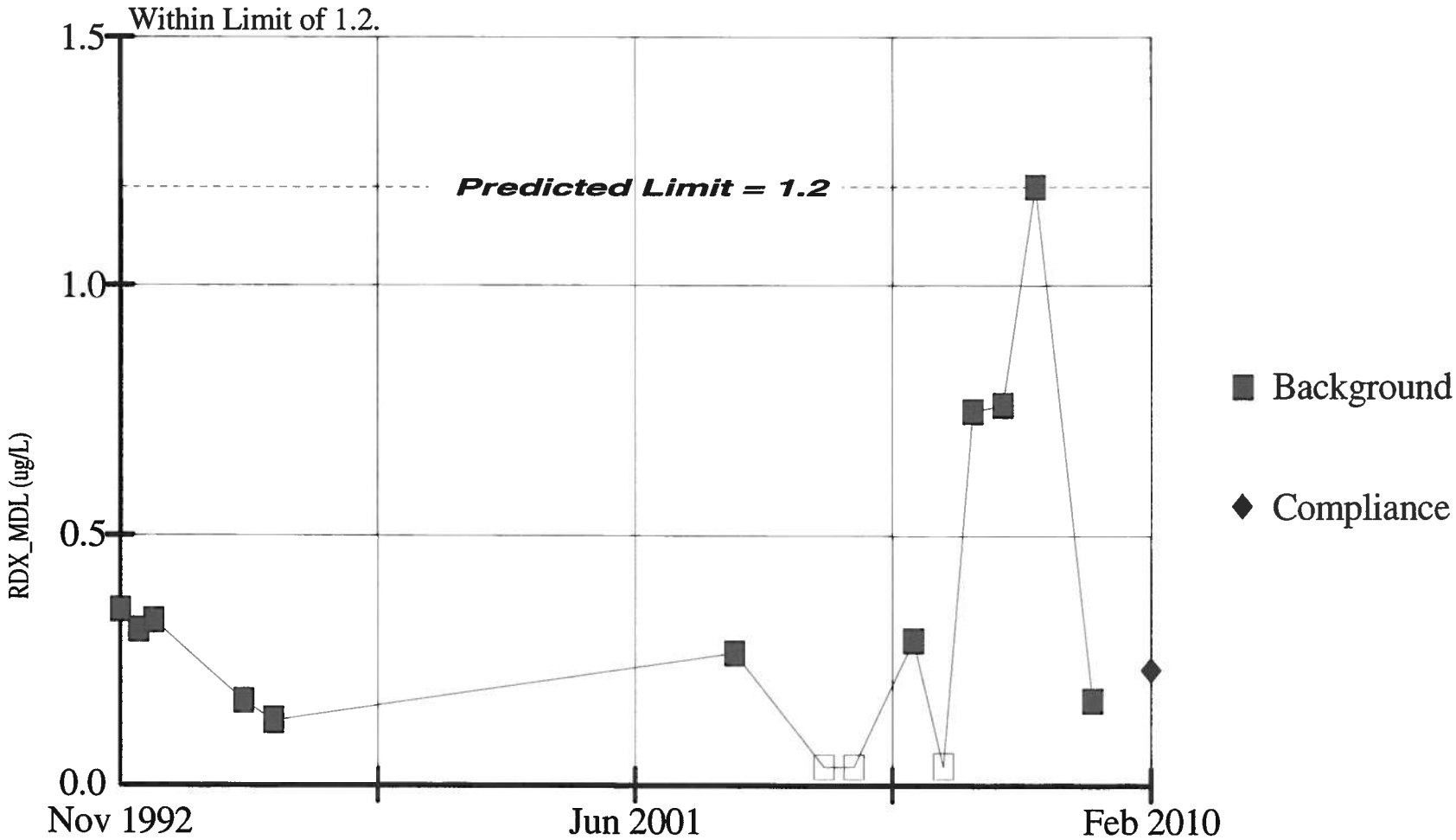
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:20 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-042B

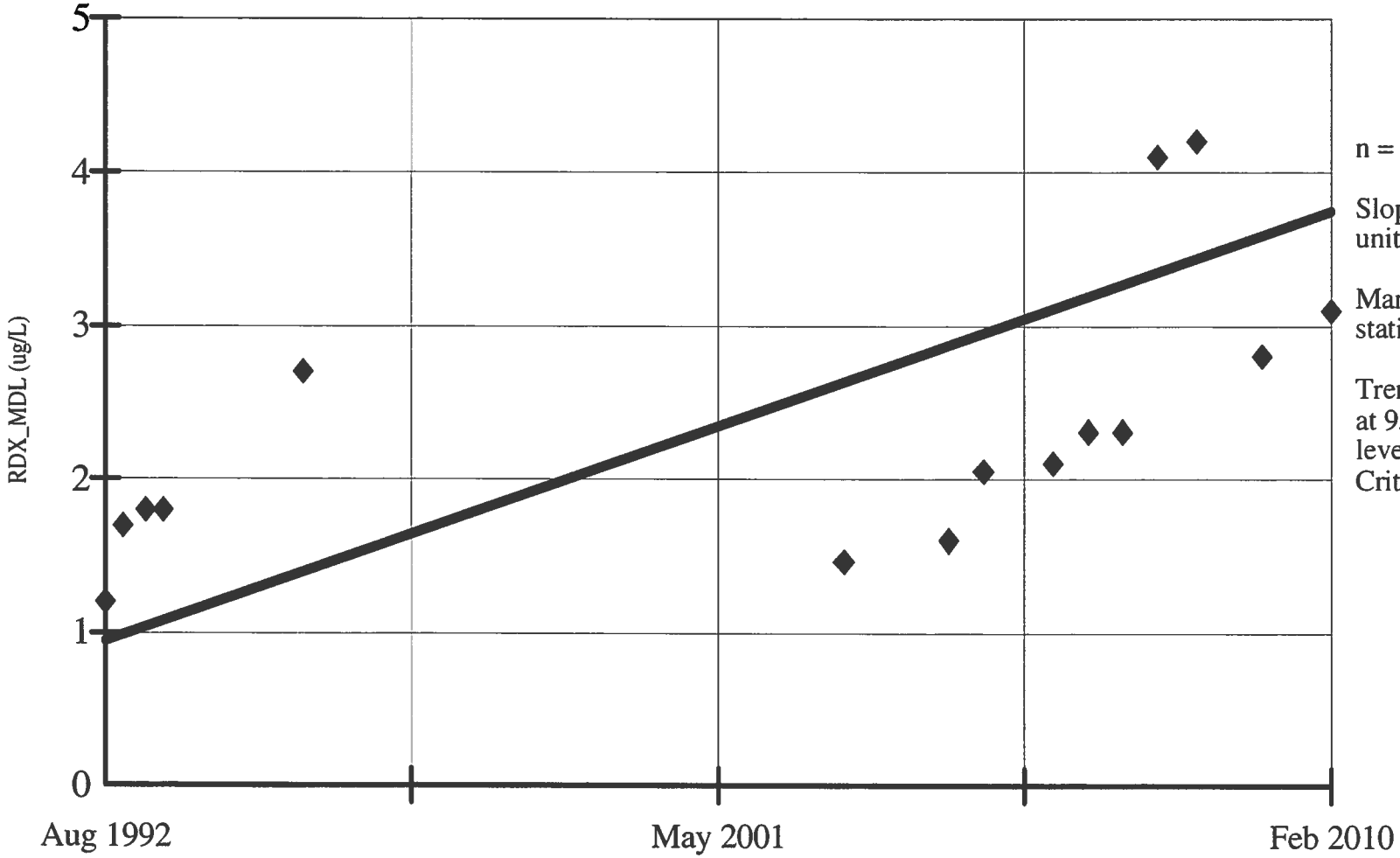


14 background obs. Testwise alpha = 0.06667 Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit because required power transformation and adjustment for non-detects are incompatible. NDs = 21.43%.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:01 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-042D



n = 15.

Slope = 0.159 units per year.

Mann Kendall statistic = 71.

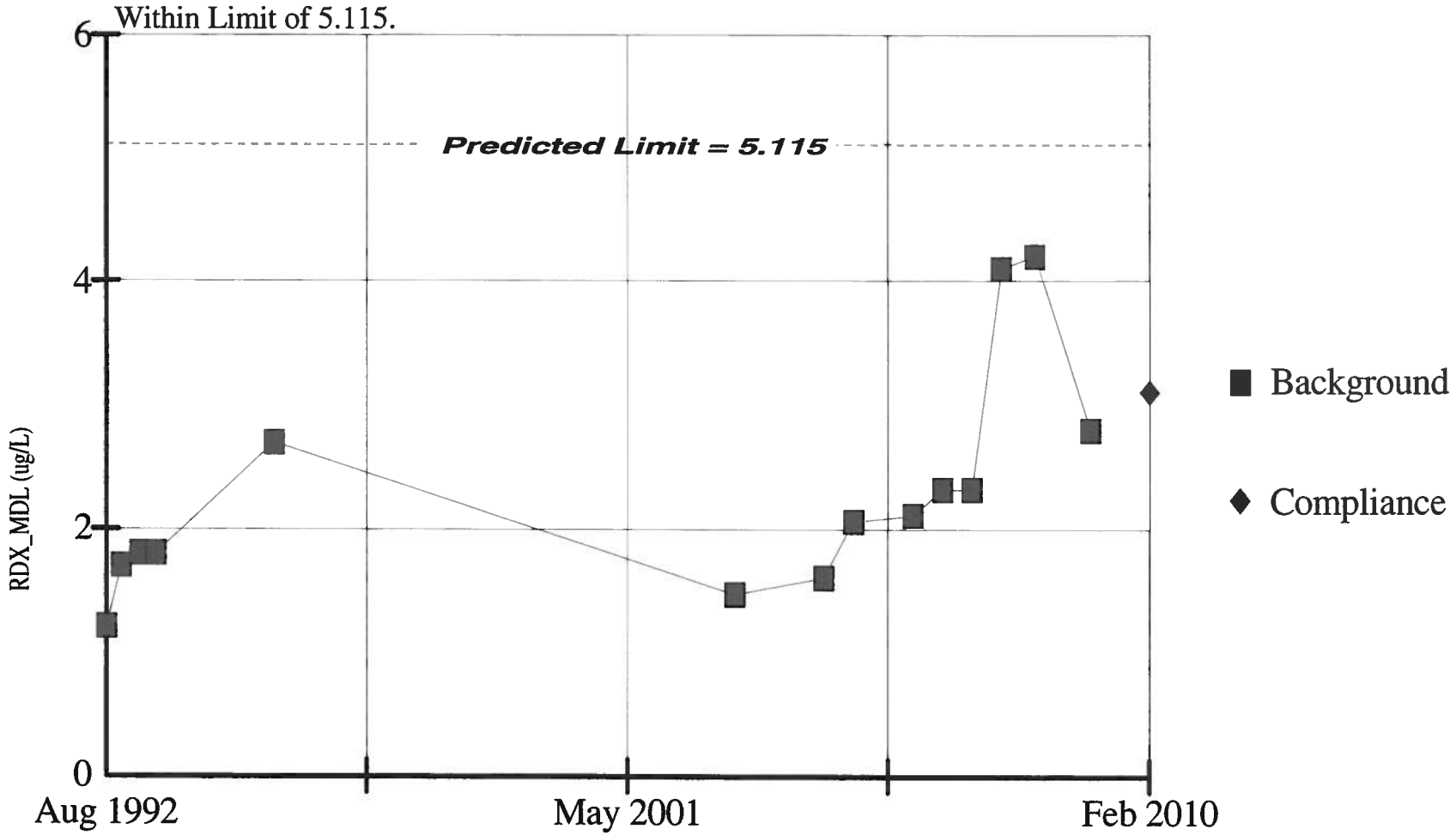
Trend significant at 95% confidence level (two tailed). Critical value = 41.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:20 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-042D



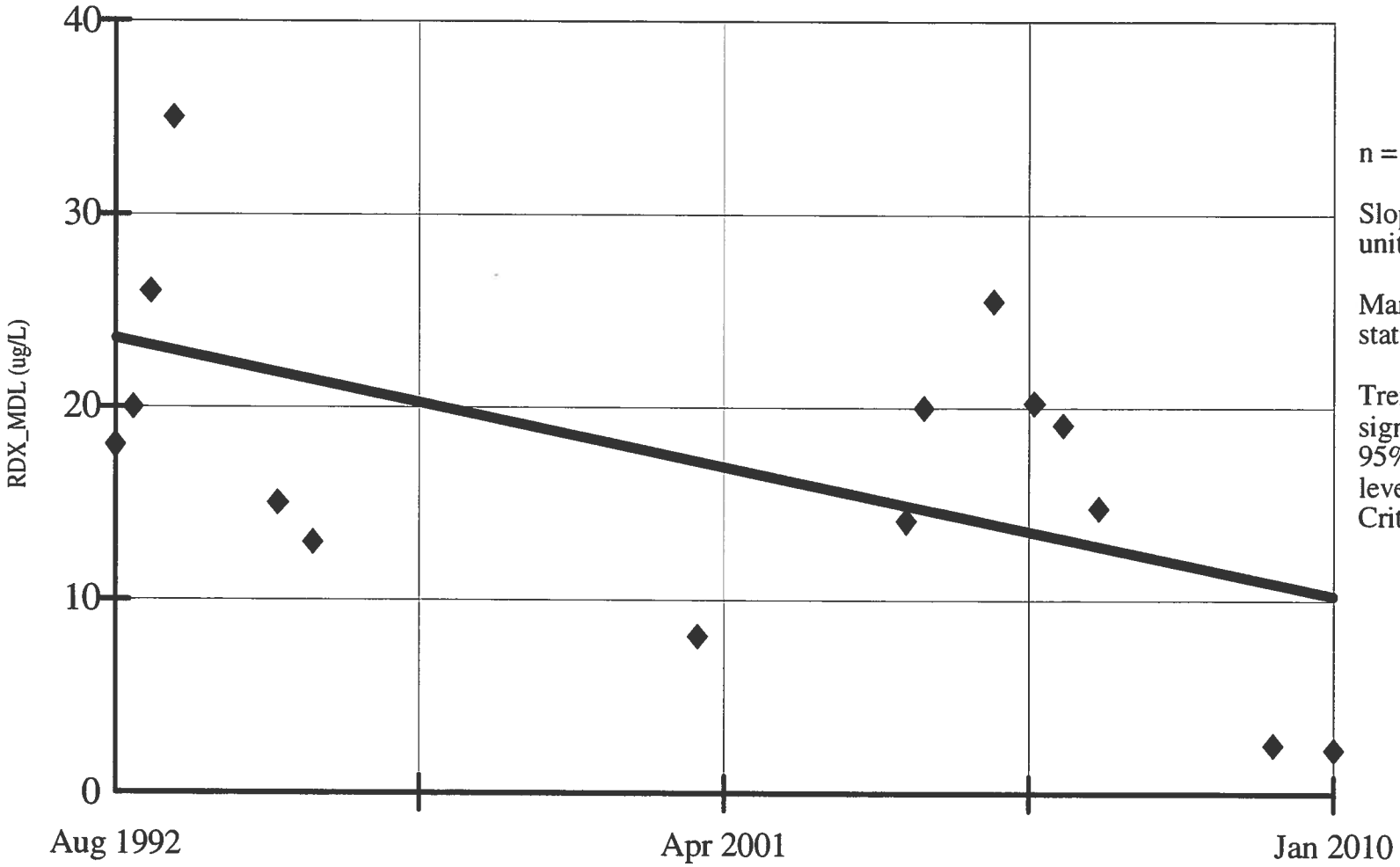
Background Data Summary: (based on square root(x) transformed data) Mean=1.491, Std. Dev=0.281, 0% nds, 14 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9139, W Quantile = 0.874 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 1:01 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-043B



n = 15.

Slope = -0.763 units per year.

Mann Kendall statistic = -34.

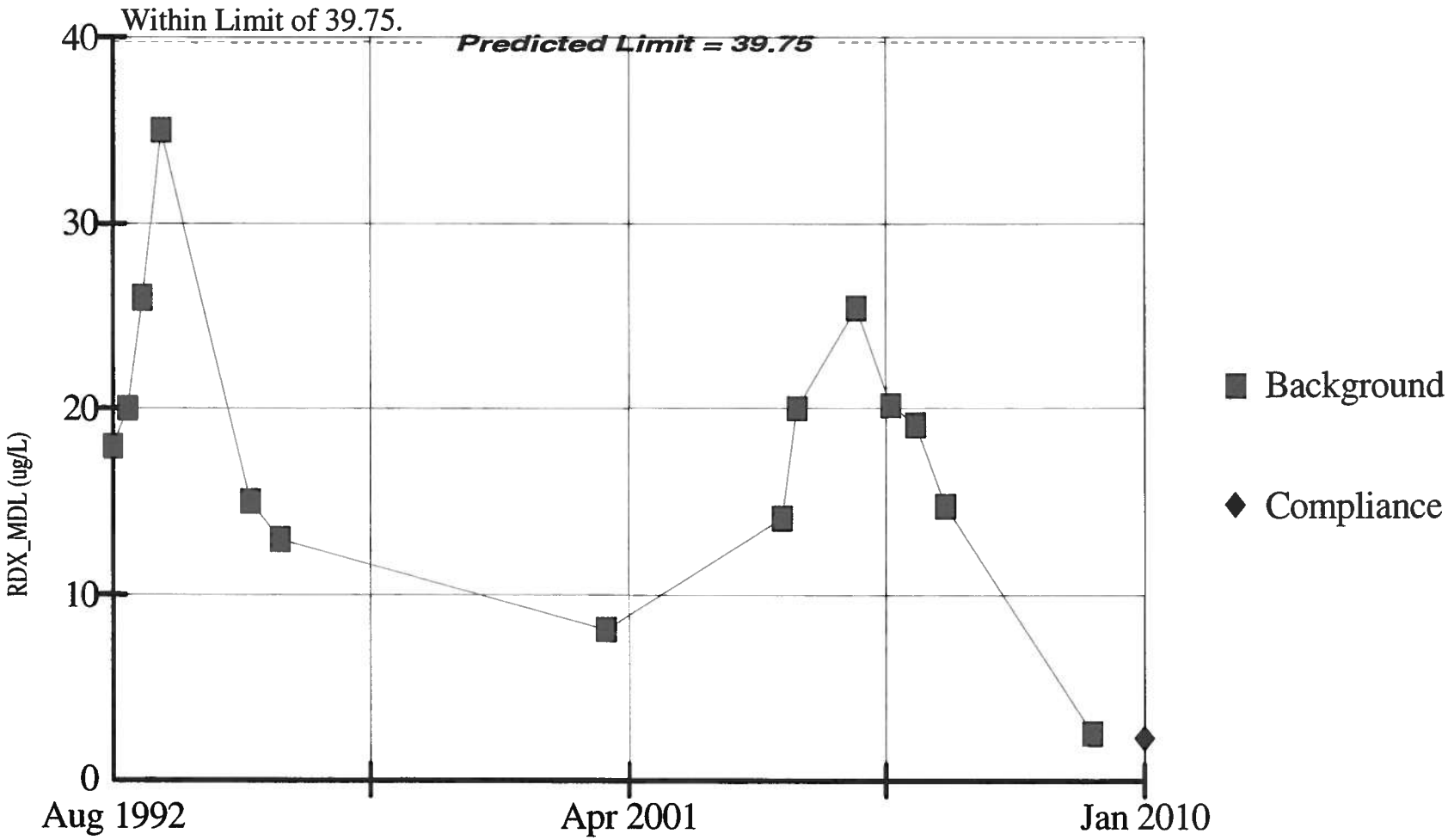
Trend not significant at 95% confidence level (two tailed). Critical value = -41.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:20 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-043B

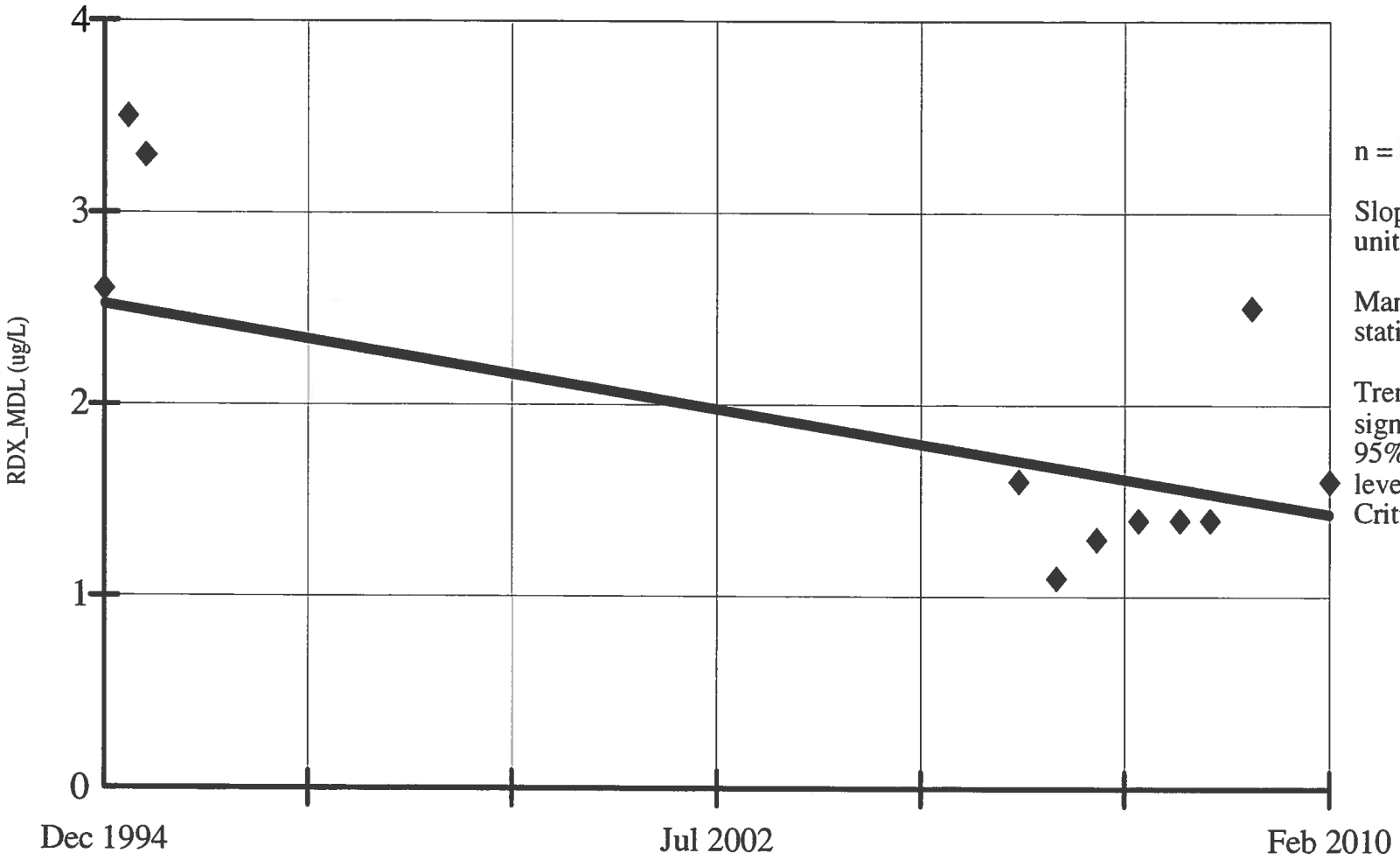


Background Data Summary: Mean=17.95, Std. Dev=7.947, 0% nds, 14 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9696, W Quantile = 0.874 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:01 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-054A



n = 11.

Slope = -0.072 units per year.

Mann Kendall statistic = -11.

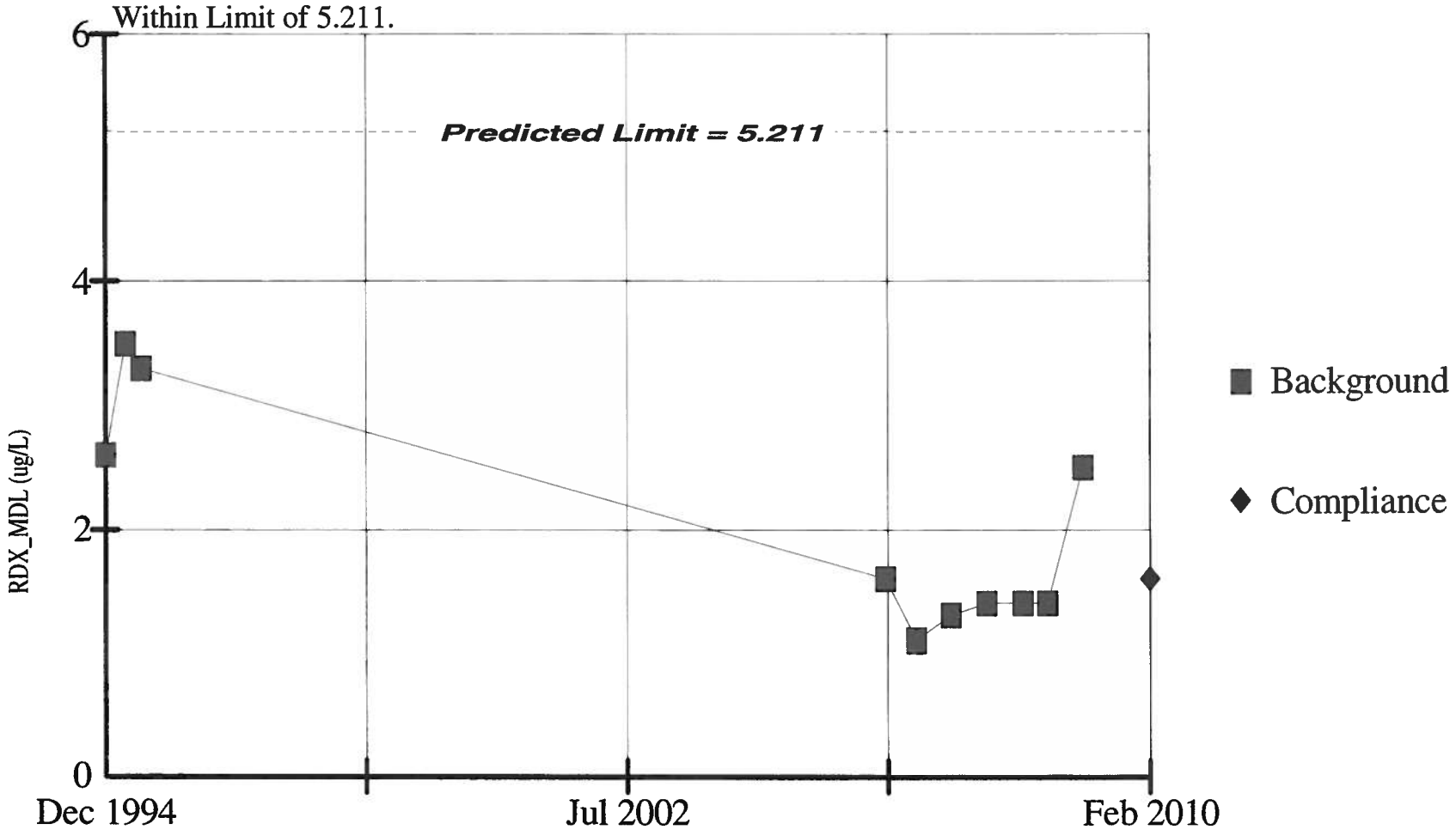
Trend not significant at 95% confidence level (two tailed). Critical value = -27.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-054A

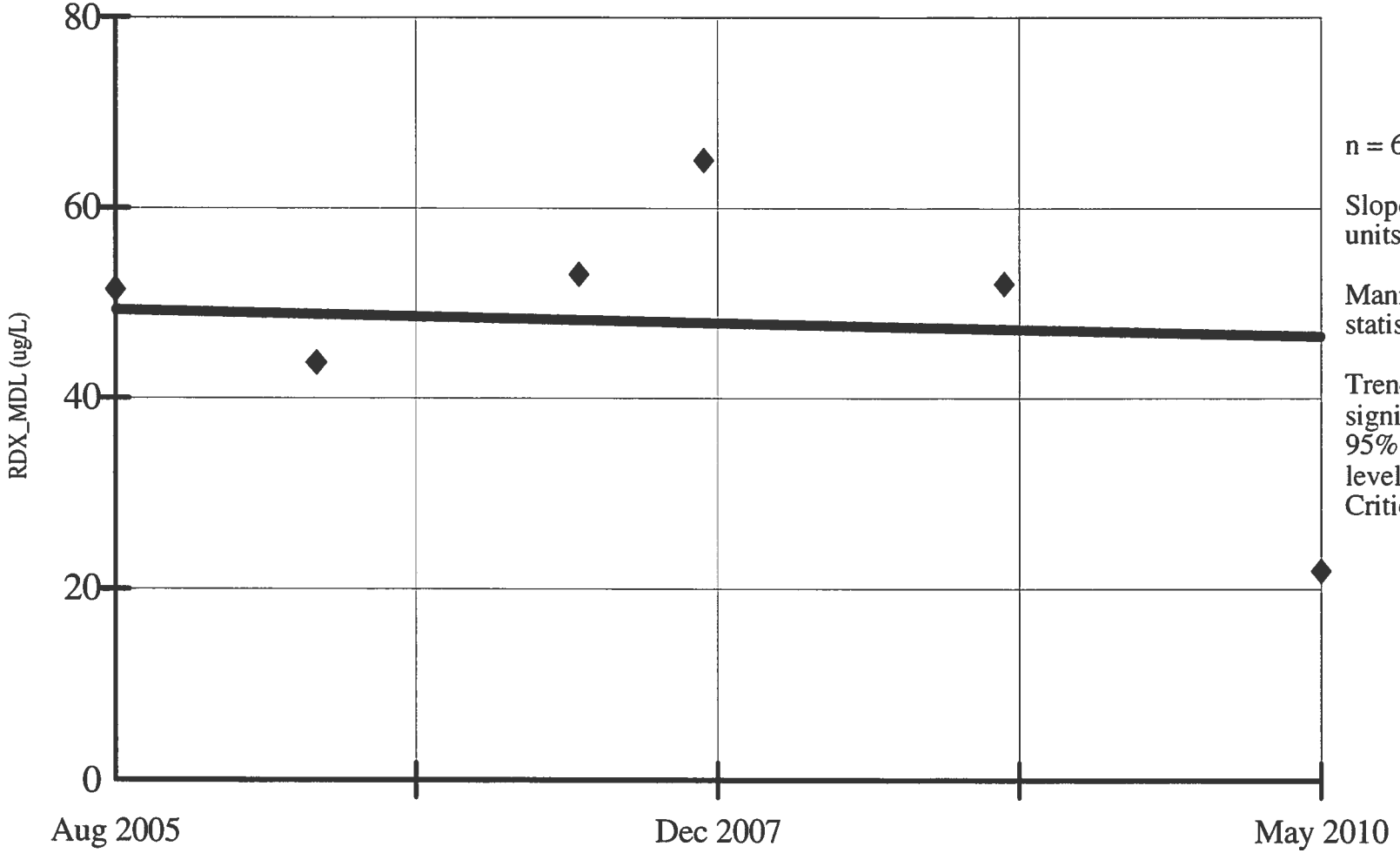


Background Data Summary: (based on square root(x) transformed data) Mean=1.388, Std. Dev=0.302, 0% nds, 10 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8549, W Quantile = 0.842 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:02 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-065B



n = 6.

Slope = -0.602 units per year.

Mann Kendall statistic = -1.

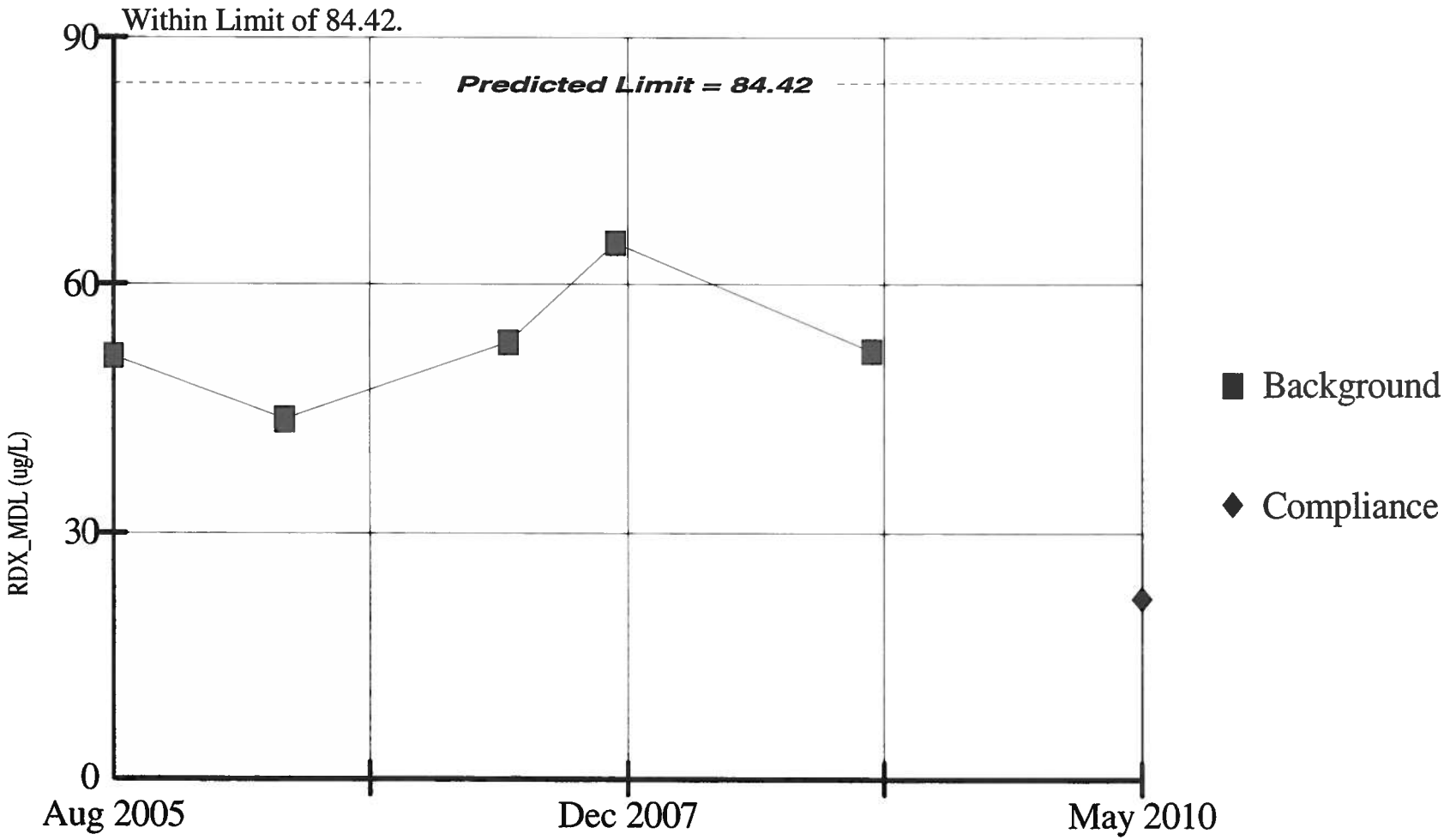
Trend not significant at 95% confidence level (two tailed). Critical value = -12.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-065B

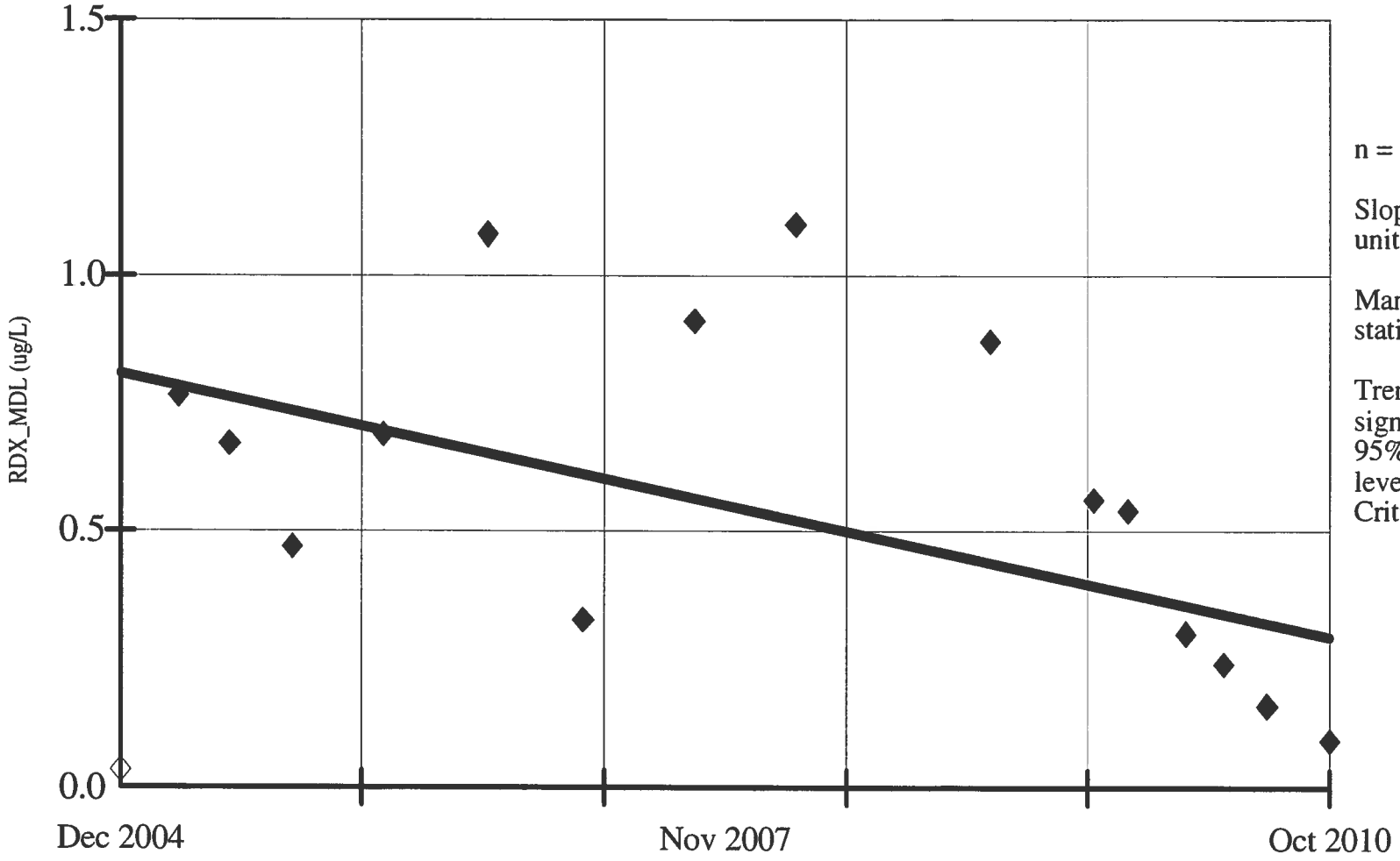


Background Data Summary: Mean=53.02, Std. Dev=7.649, 0% nds, 5 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9035, W Quantile = 0.762 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:02 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-083A



n = 16.

Slope = -0.087 units per year.

Mann Kendall statistic = -36.

Trend not significant at 95% confidence level (two tailed). Critical value = -45.

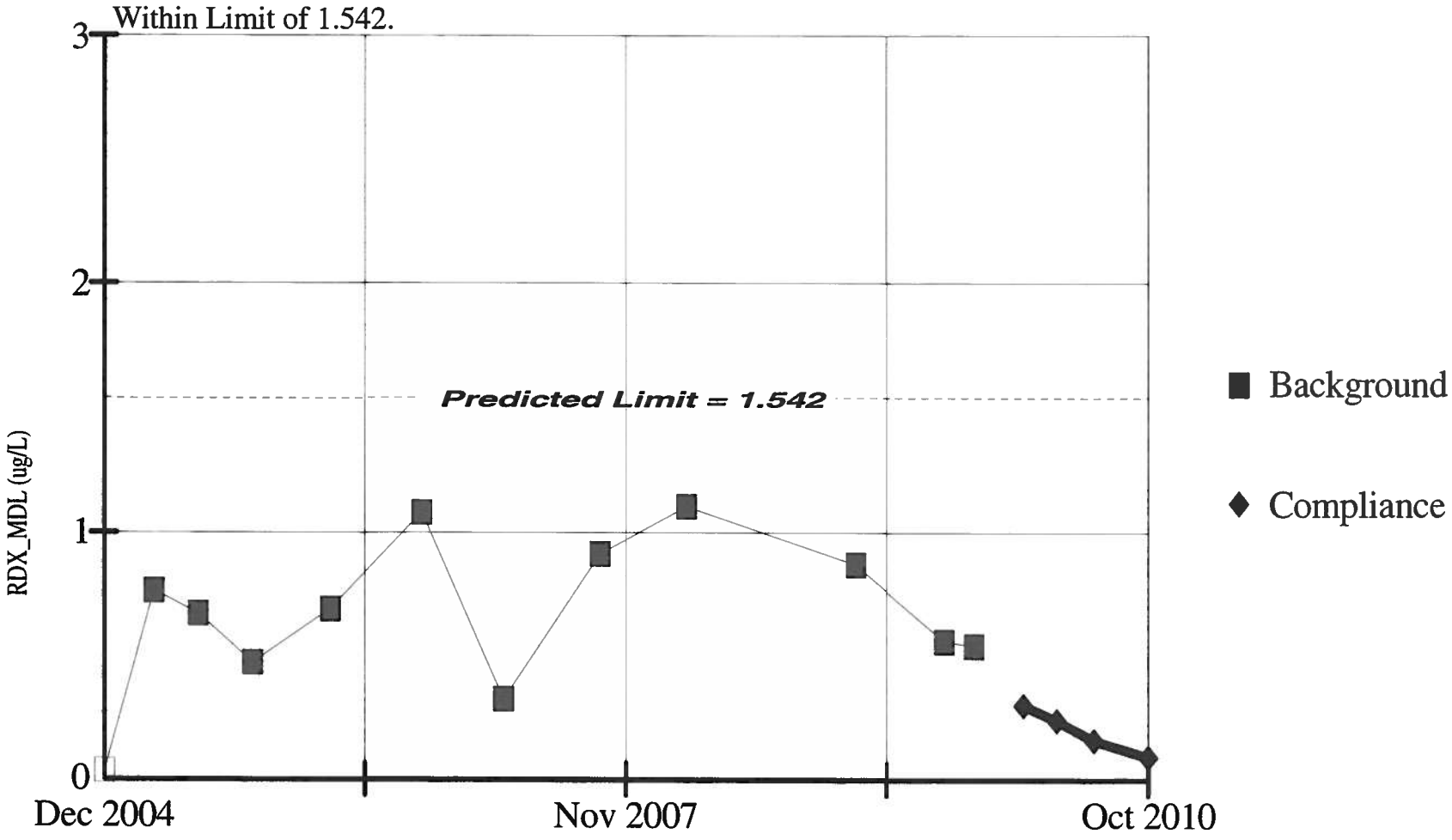
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-083A

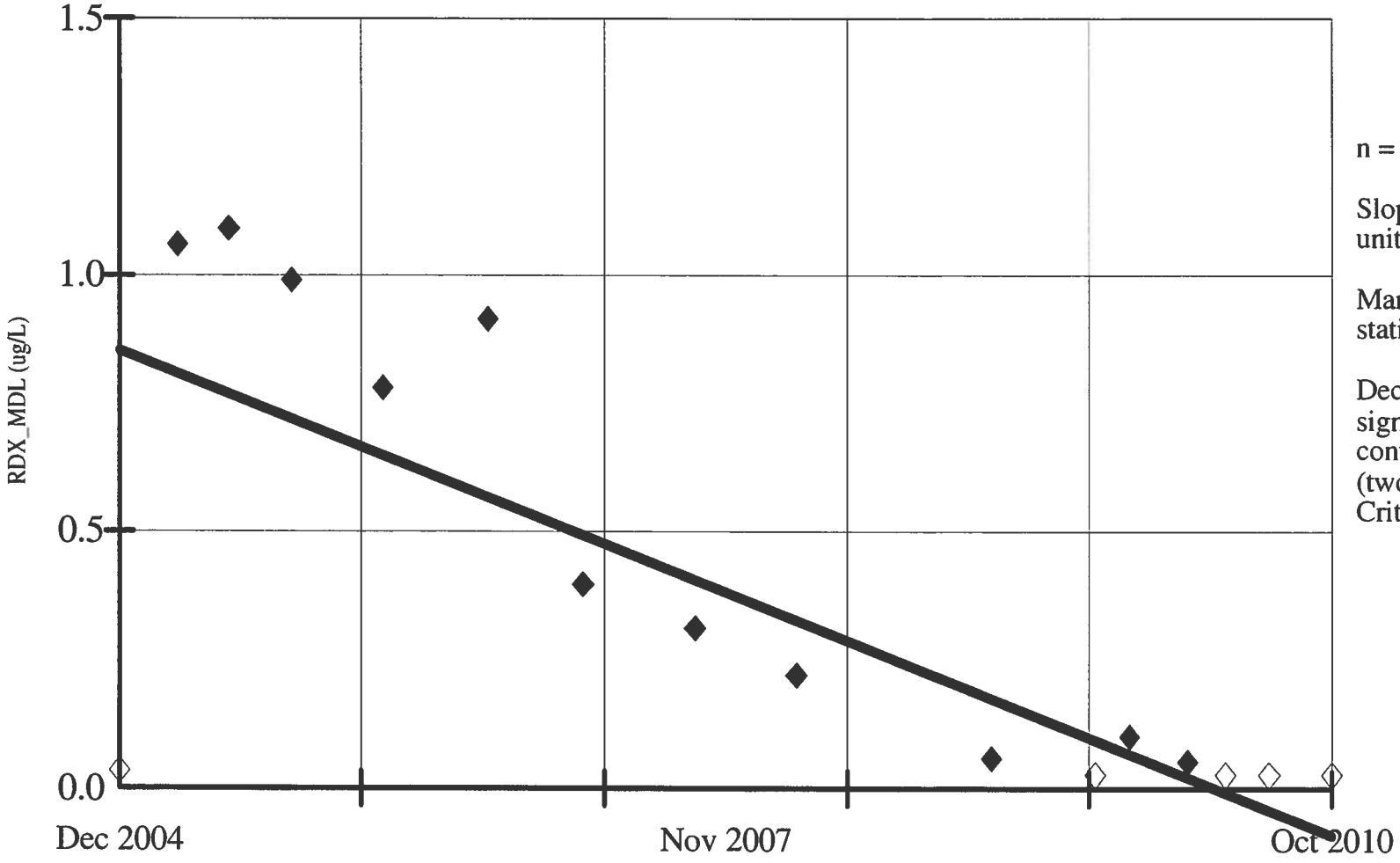


Background Data Summary: Mean=0.668, Std. Dev=0.309, 8.333% nds, 12 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9688, W Quantile = 0.859 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit. Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:02 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-083B



n = 16.

Slope = -0.16 units per year.

Mann Kendall statistic = -82.

Decreasing trend significant at 95% confidence level (two tailed). Critical value = -45.

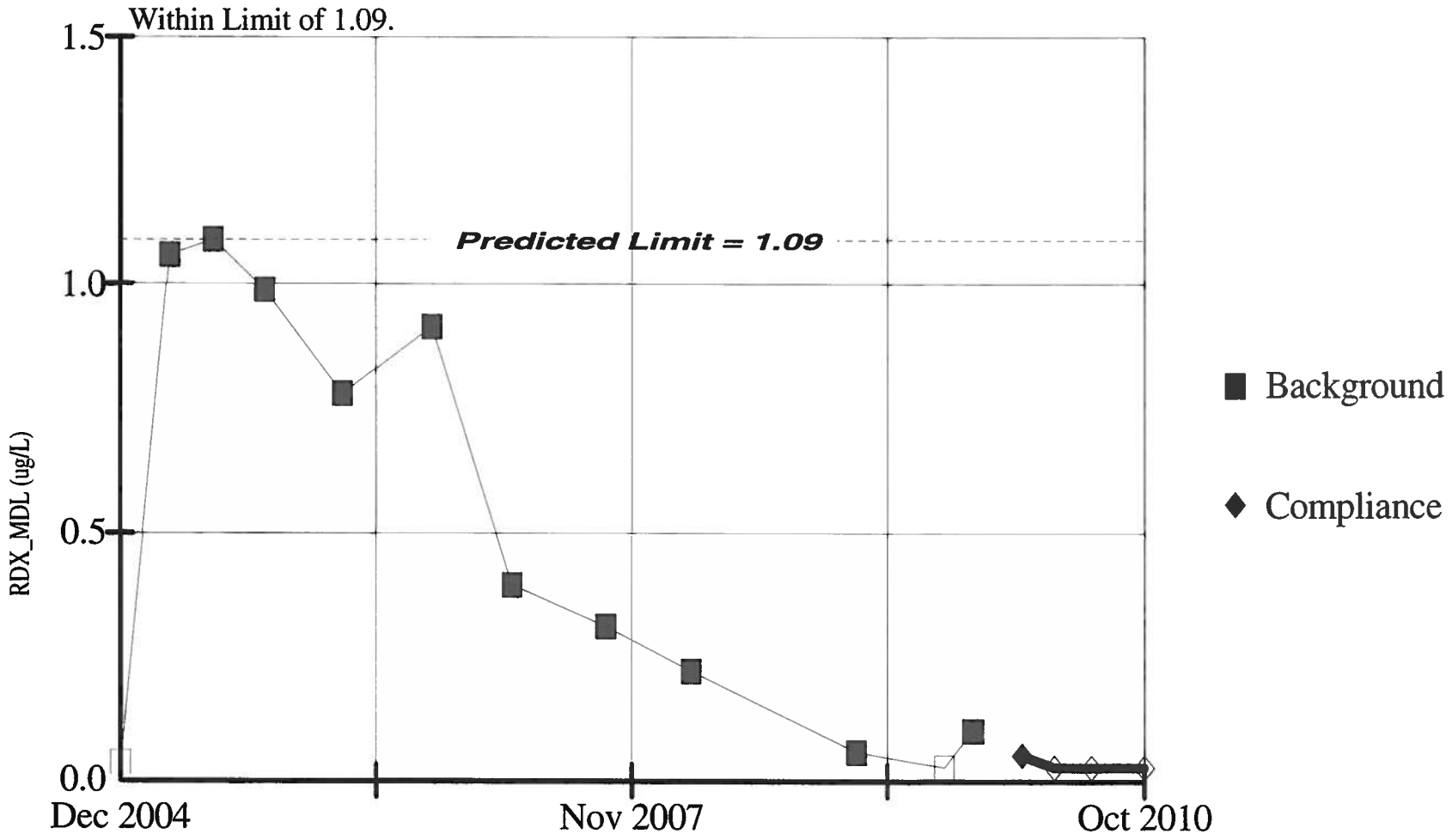
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:21 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-083B

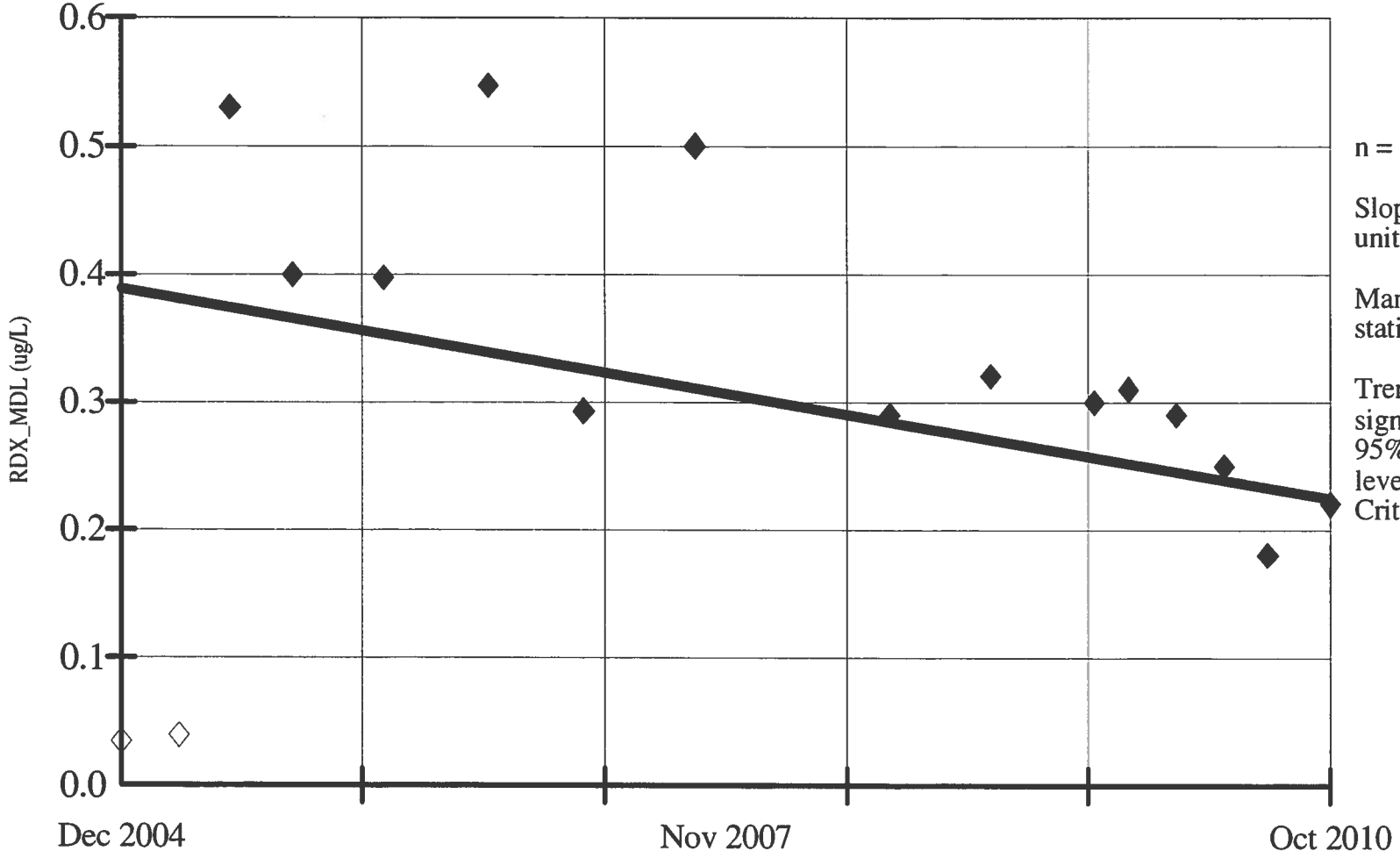


12 background obs. Testwise alpha = 0.07692 Most recent point compared to limit. Hollow symbols indicate censored values. Non-P test used in lieu of Parametric Intra-Well Prediction Limit because required power transformation and adjustment for non-detects are incompatible. NDs = 16.67%.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:02 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-084A



n = 16.

Slope = -0.028 units per year.

Mann Kendall statistic = -33.

Trend not significant at 95% confidence level (two tailed). Critical value = -45.

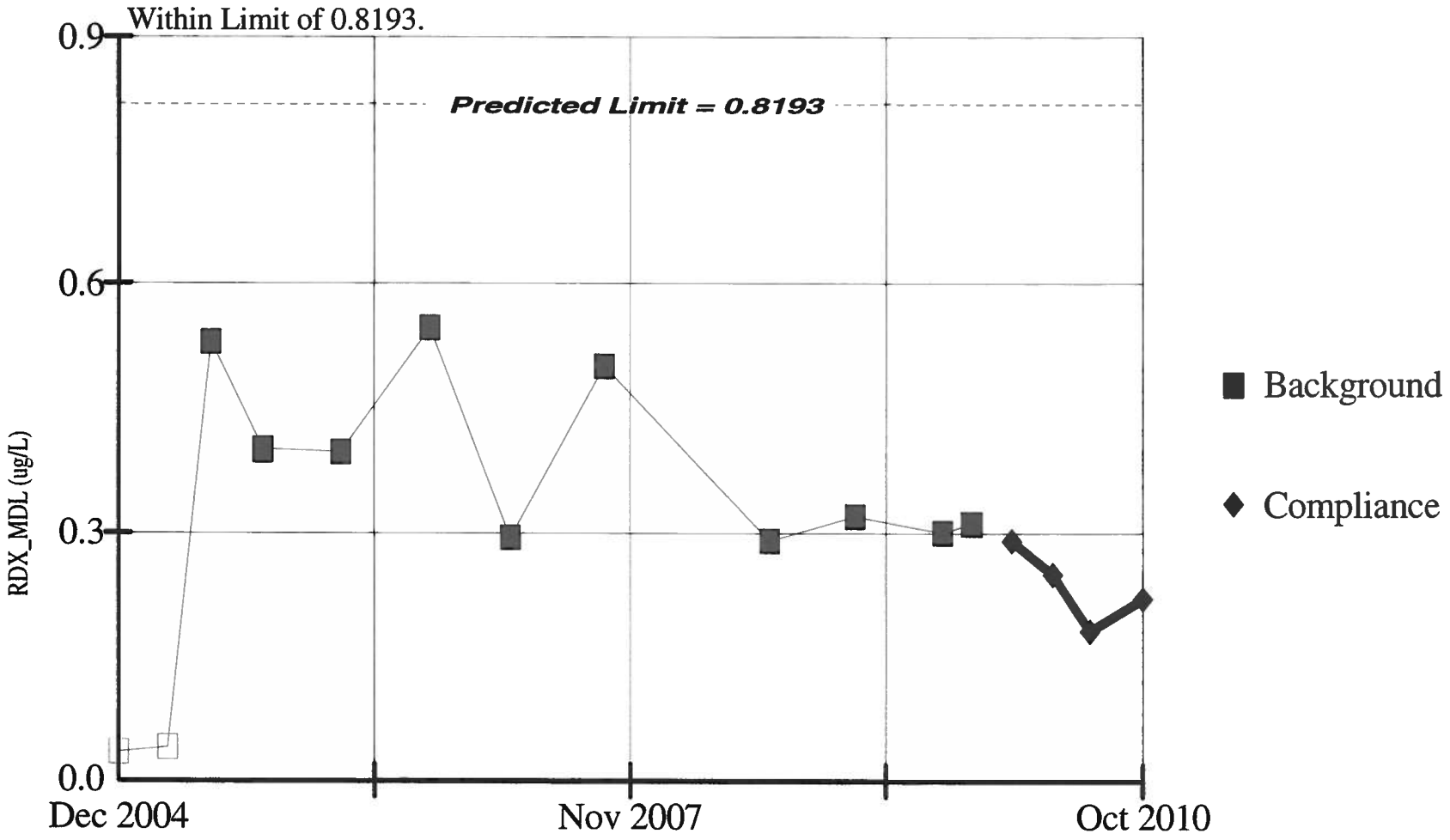
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:22 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-084A

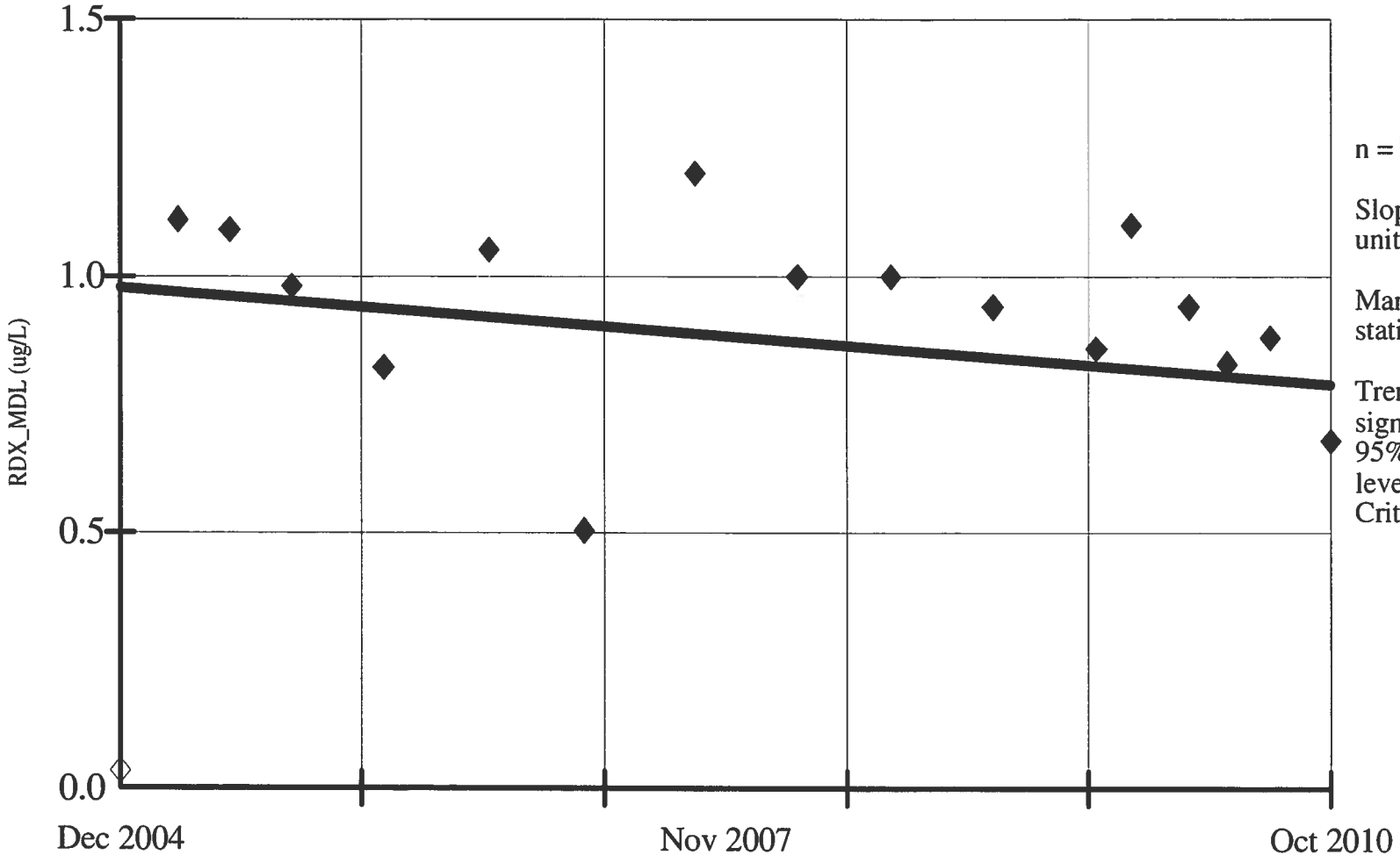


Background Data Summary: (after Cohen's adjustment) Mean=0.324, Std. Dev=0.175, 16.67% nds, 12 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8942, W Quantile = 0.859 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit. Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:03 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-085A



n = 17.

Slope = -0.032 units per year.

Mann Kendall statistic = -28.

Trend not significant at 95% confidence level (two tailed). Critical value = -49.

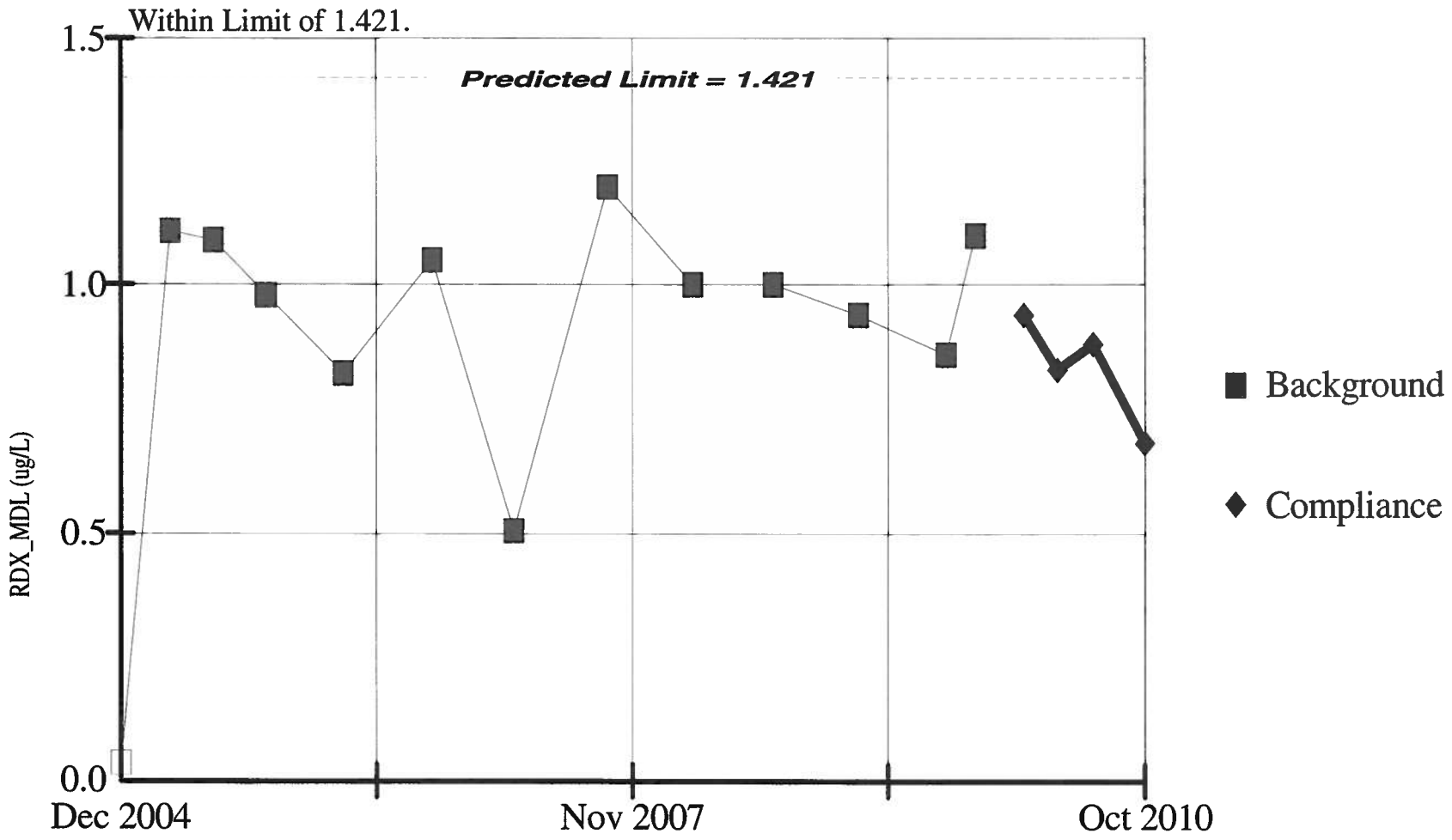
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:22 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-085A

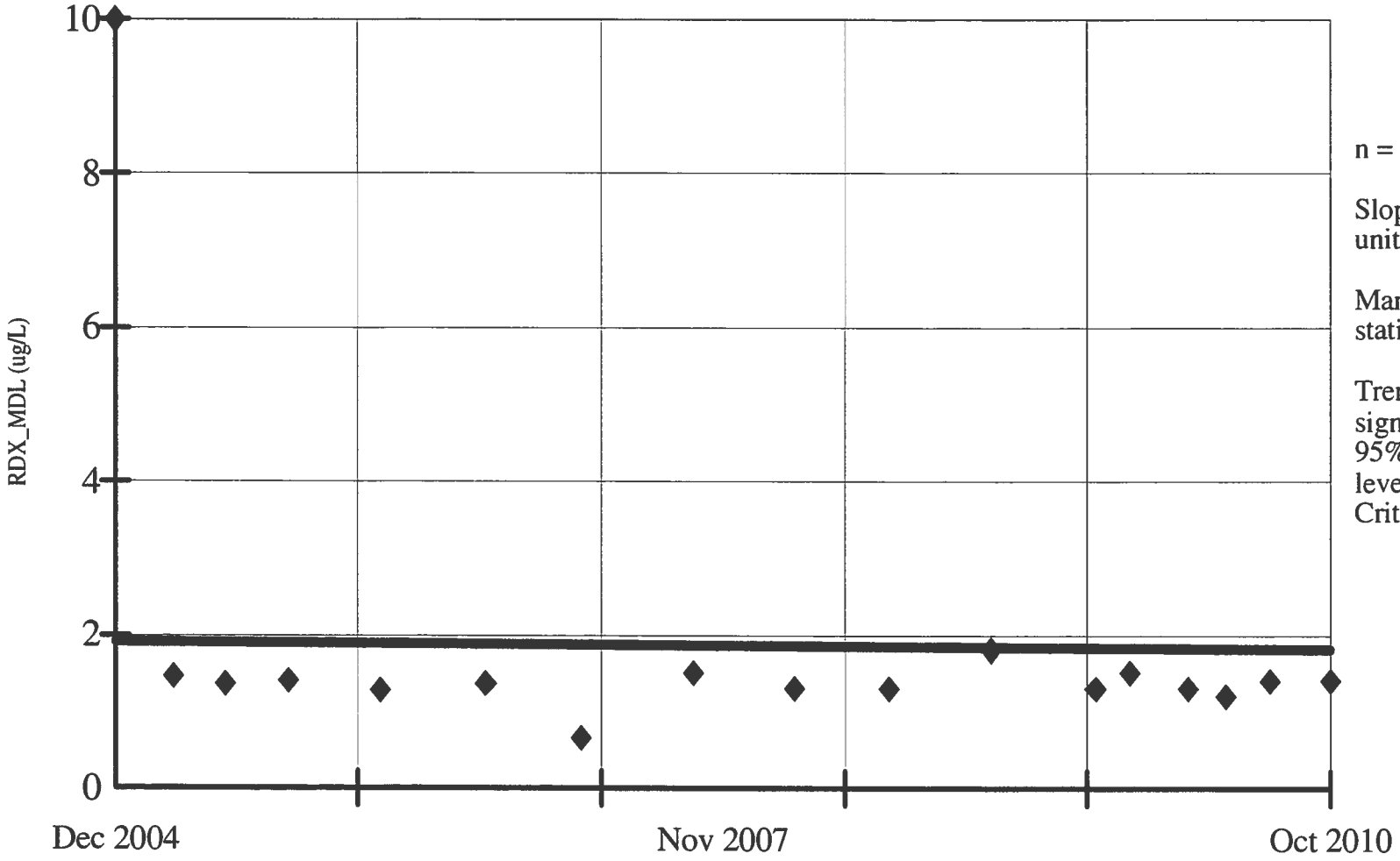


Background Data Summary: (based on square(x) transformed data) Mean=0.899, Std. Dev=0.403, 7.692% nds, 13 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9056, W Quantile = 0.866 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit. Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:03 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-085B



n = 17.

Slope = -0.016 units per year.

Mann Kendall statistic = -18.

Trend not significant at 95% confidence level (two tailed). Critical value = -49.

Constituent: RDX_MDL (ug/L)

Date: 1/28/11, 12:22 PM

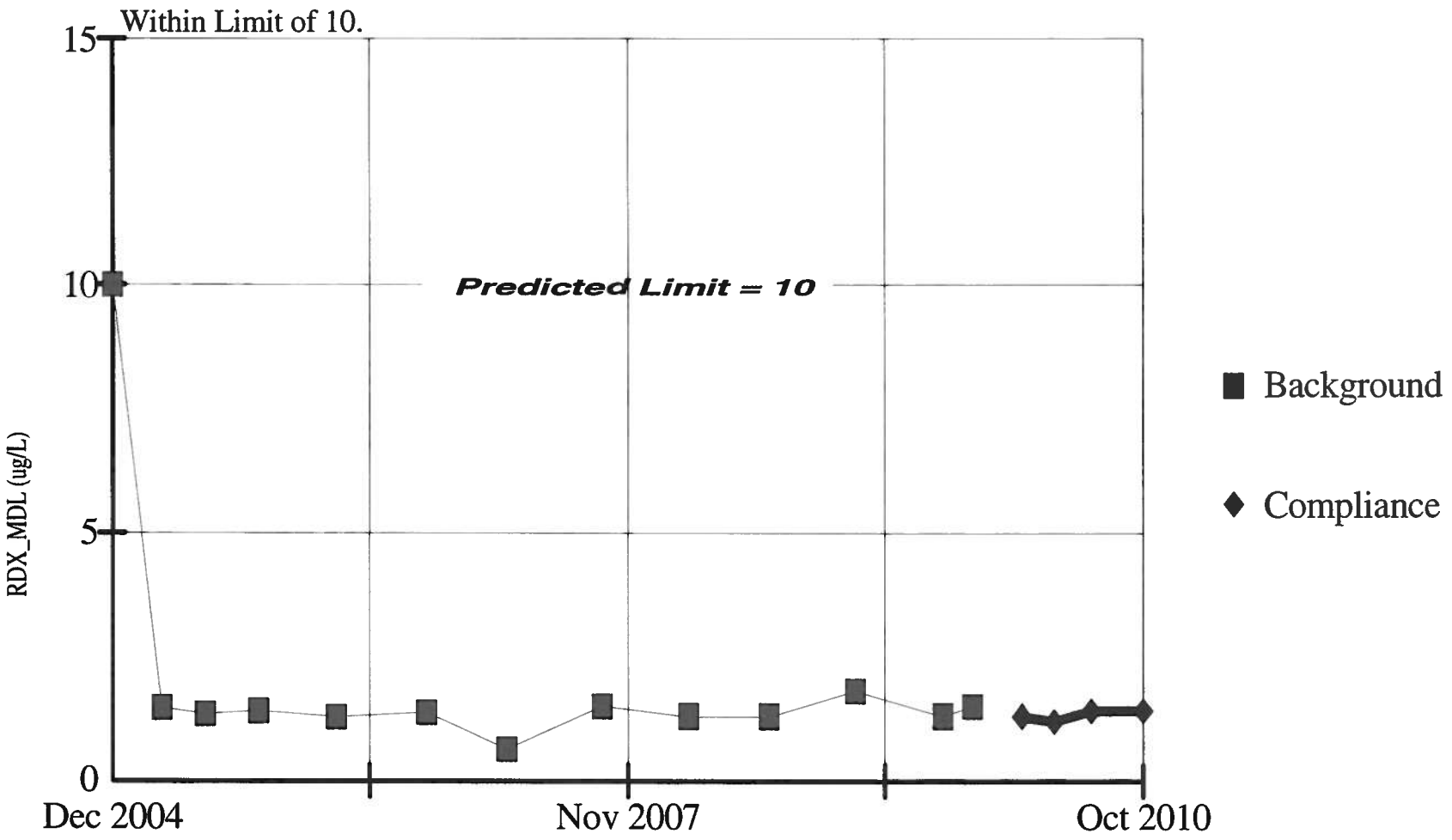
Facility: Mead FNOP

Client: ECC

Data File: Mead 2010 Annual Sanitas 2

View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-085B

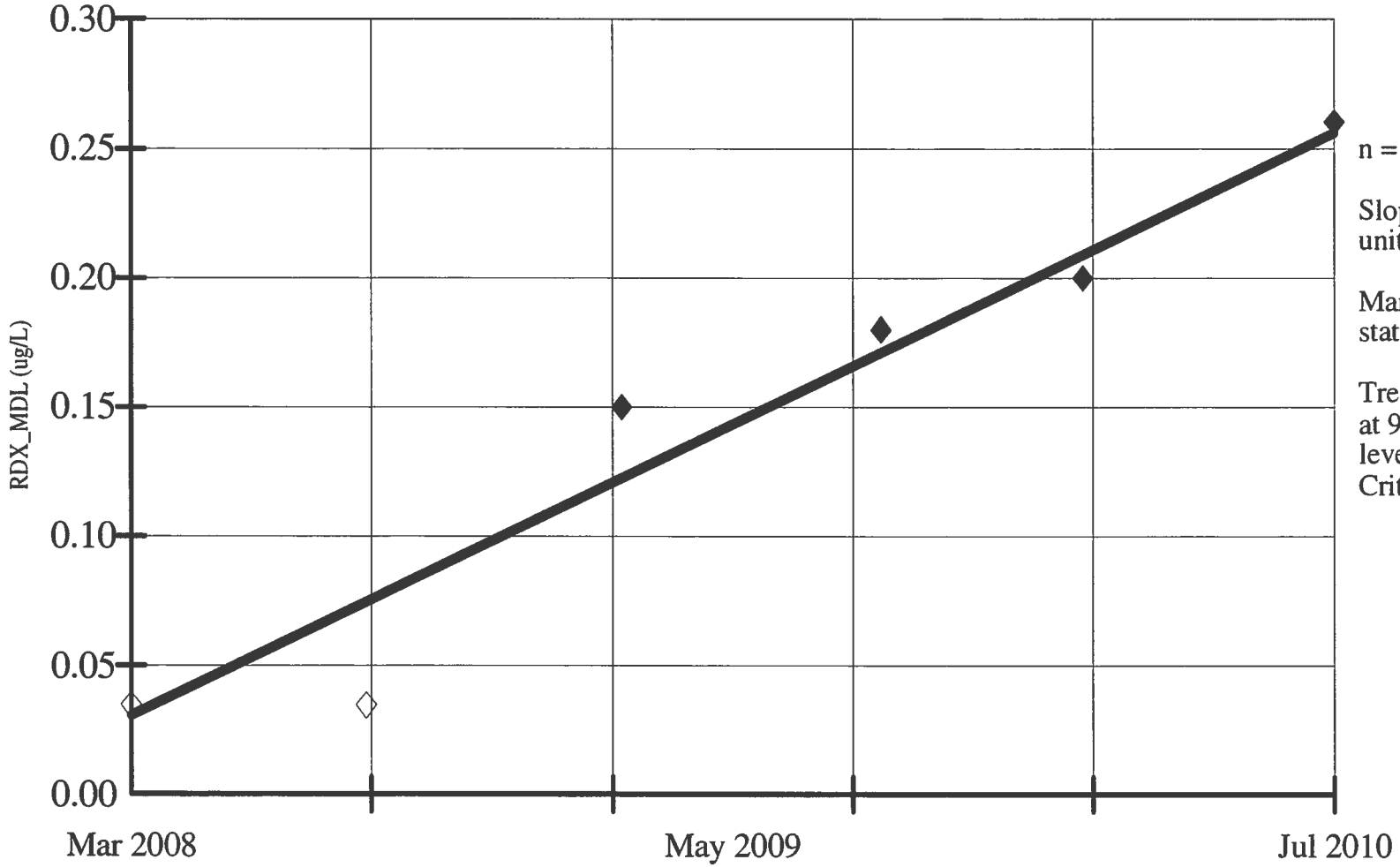


13 background obs. Testwise alpha = 0.07143 Most recent point compared to limit.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit after ladder of powers failed to adequately normalize data.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:03 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-090B



n = 6.

Slope = 0.097 units per year.

Mann Kendall statistic = 14.

Trend significant at 95% confidence level (two tailed). Critical value = 12.

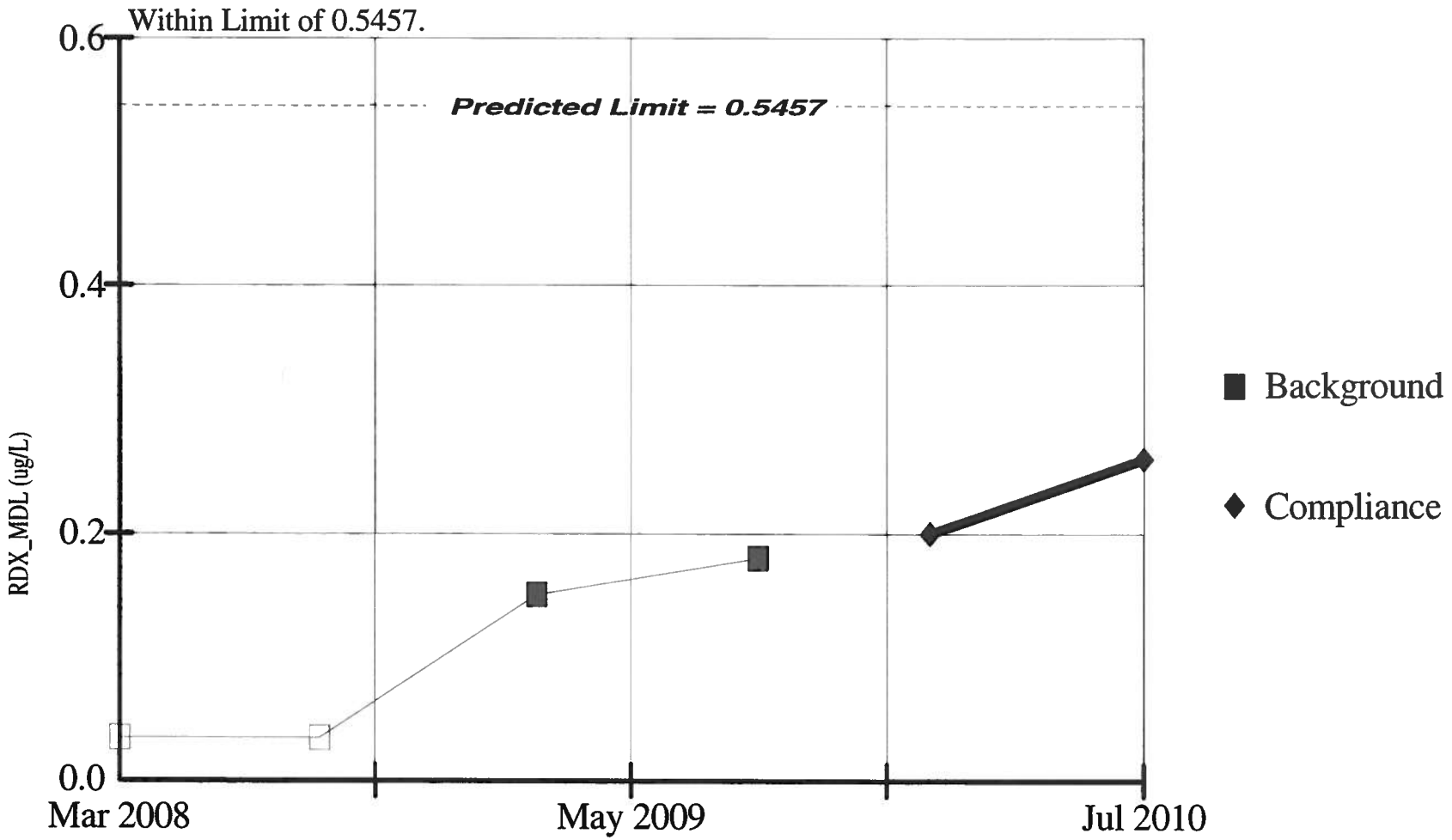
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:22 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-090B

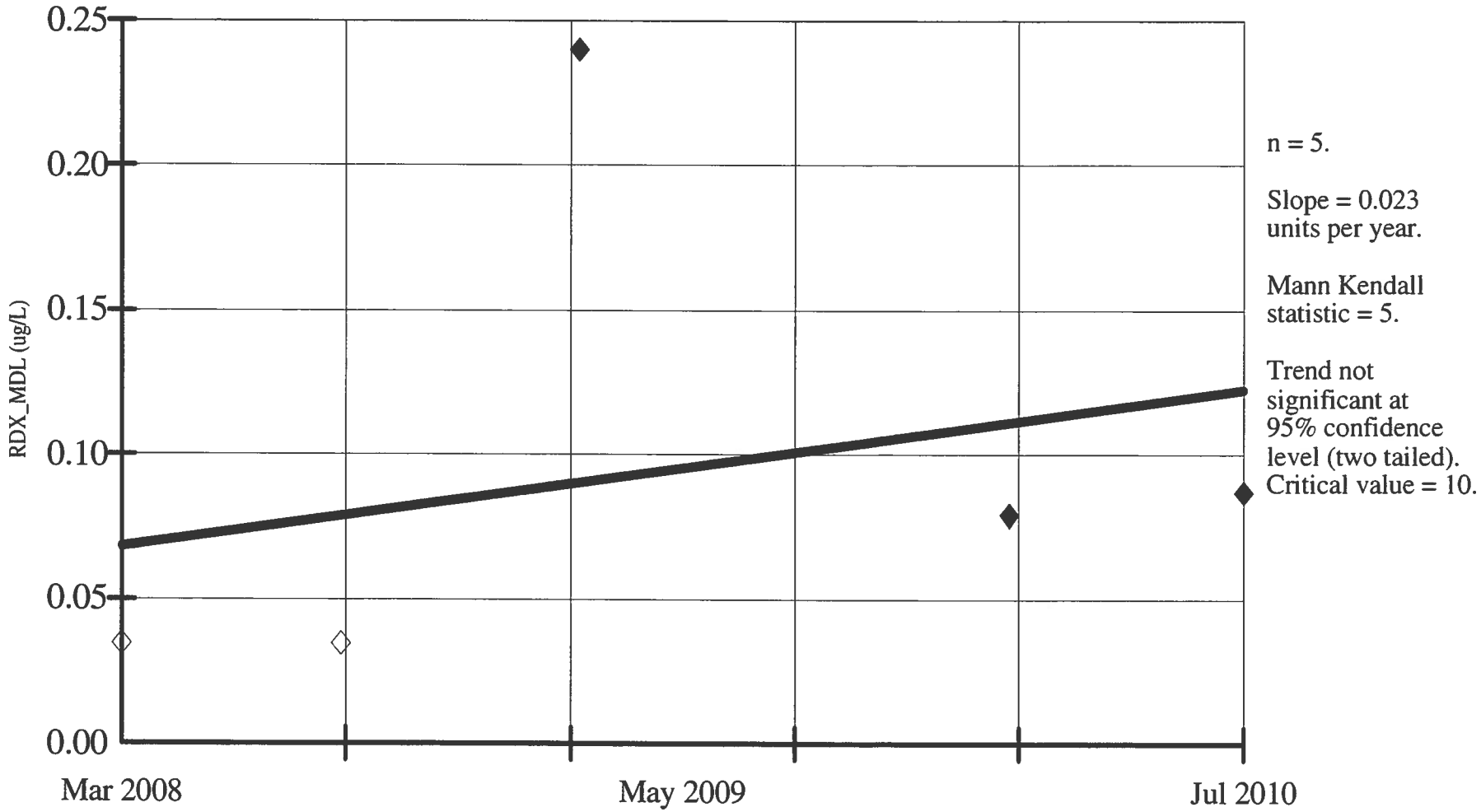


Background Data Summary: (after Cohen's adjustment) Mean=0.083, Std. Dev=0.091, 50% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.815, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit. Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:03 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-090D



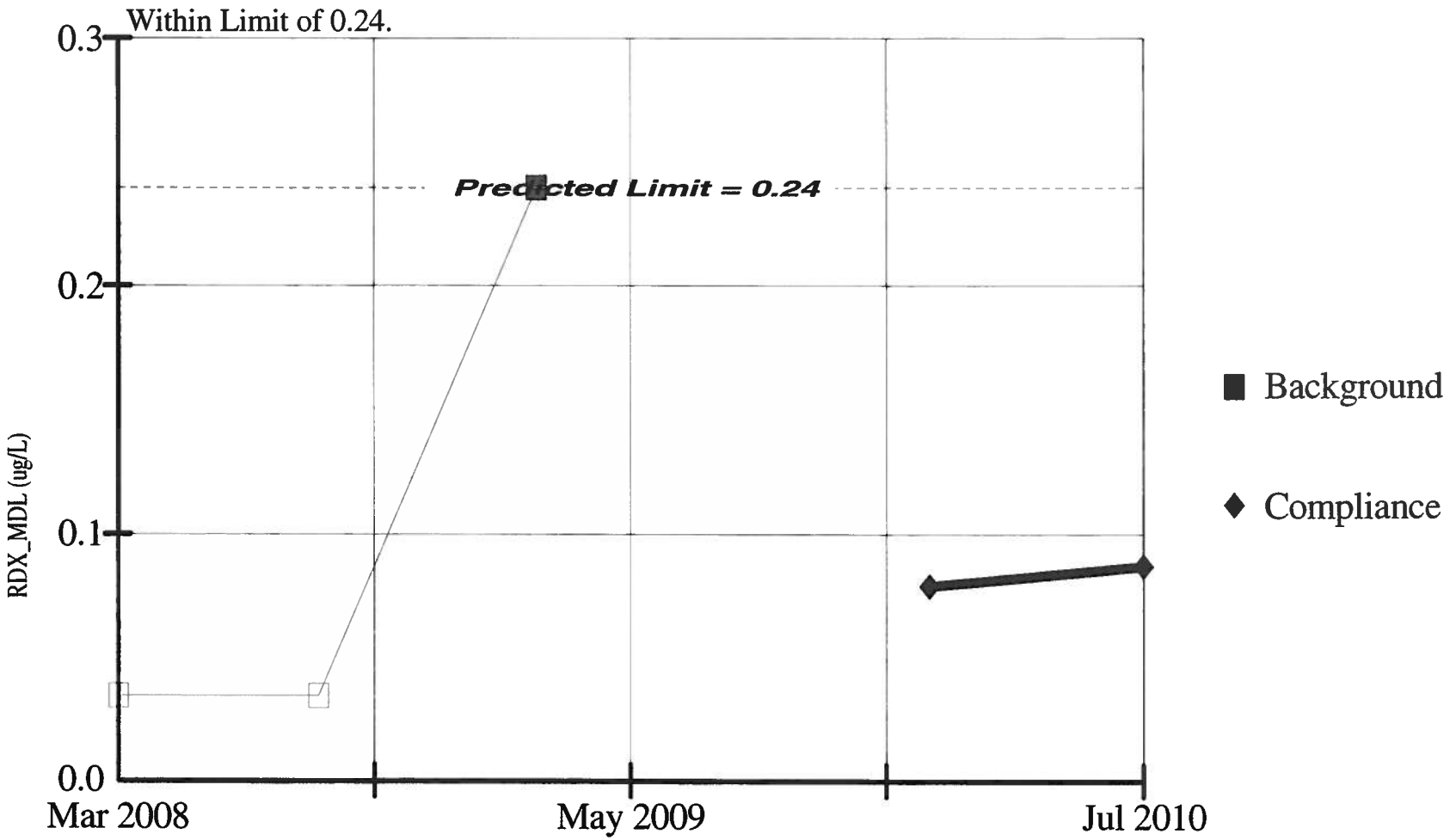
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:22 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-090D

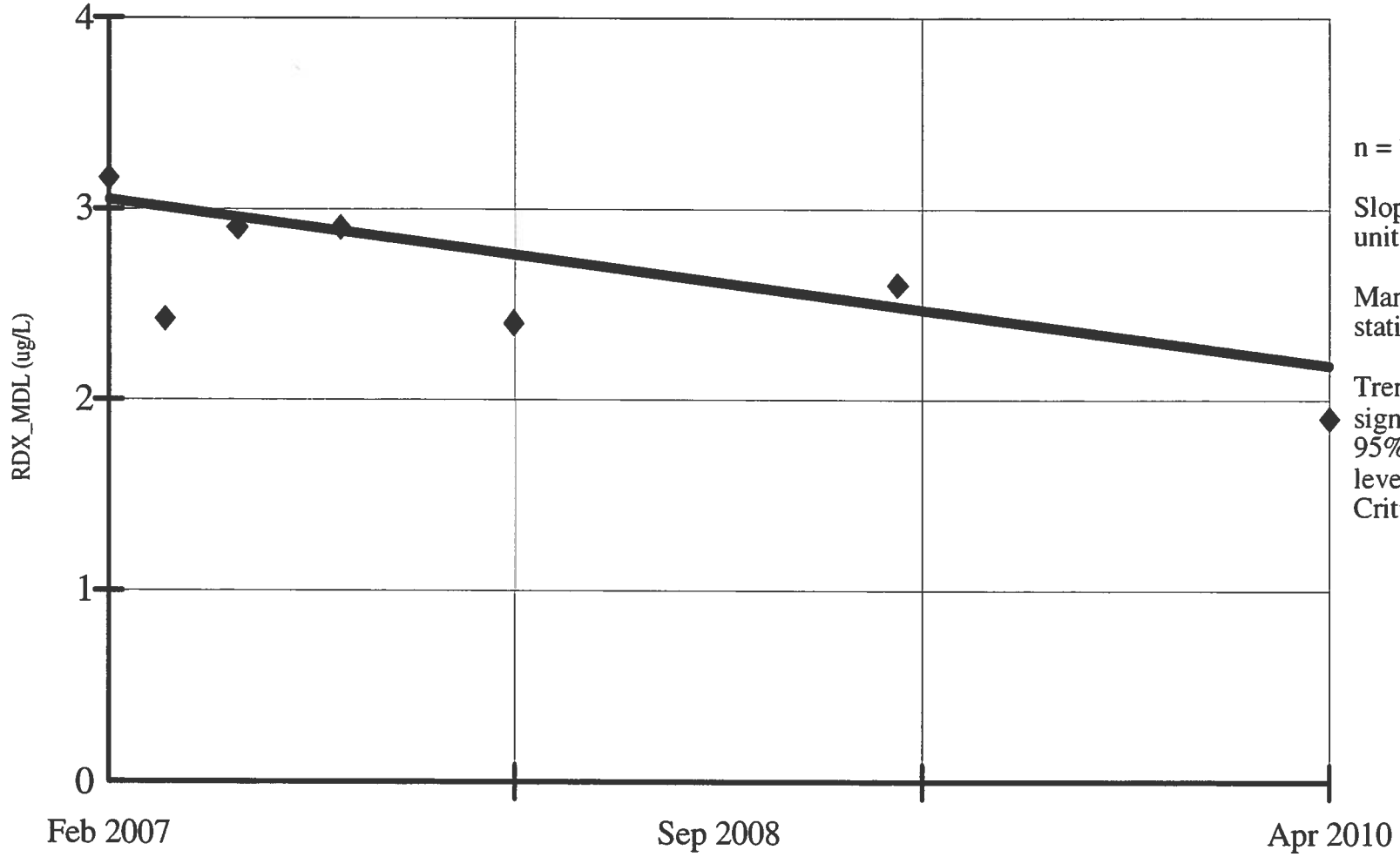


3 background obs. Testwise alpha = 0.25 Most recent point compared to limit. Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit because non-detects (66.67%) were in excess of 50% of the data.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:03 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-099A



n = 7.

Slope = -0.269 units per year.

Mann Kendall statistic = -12.

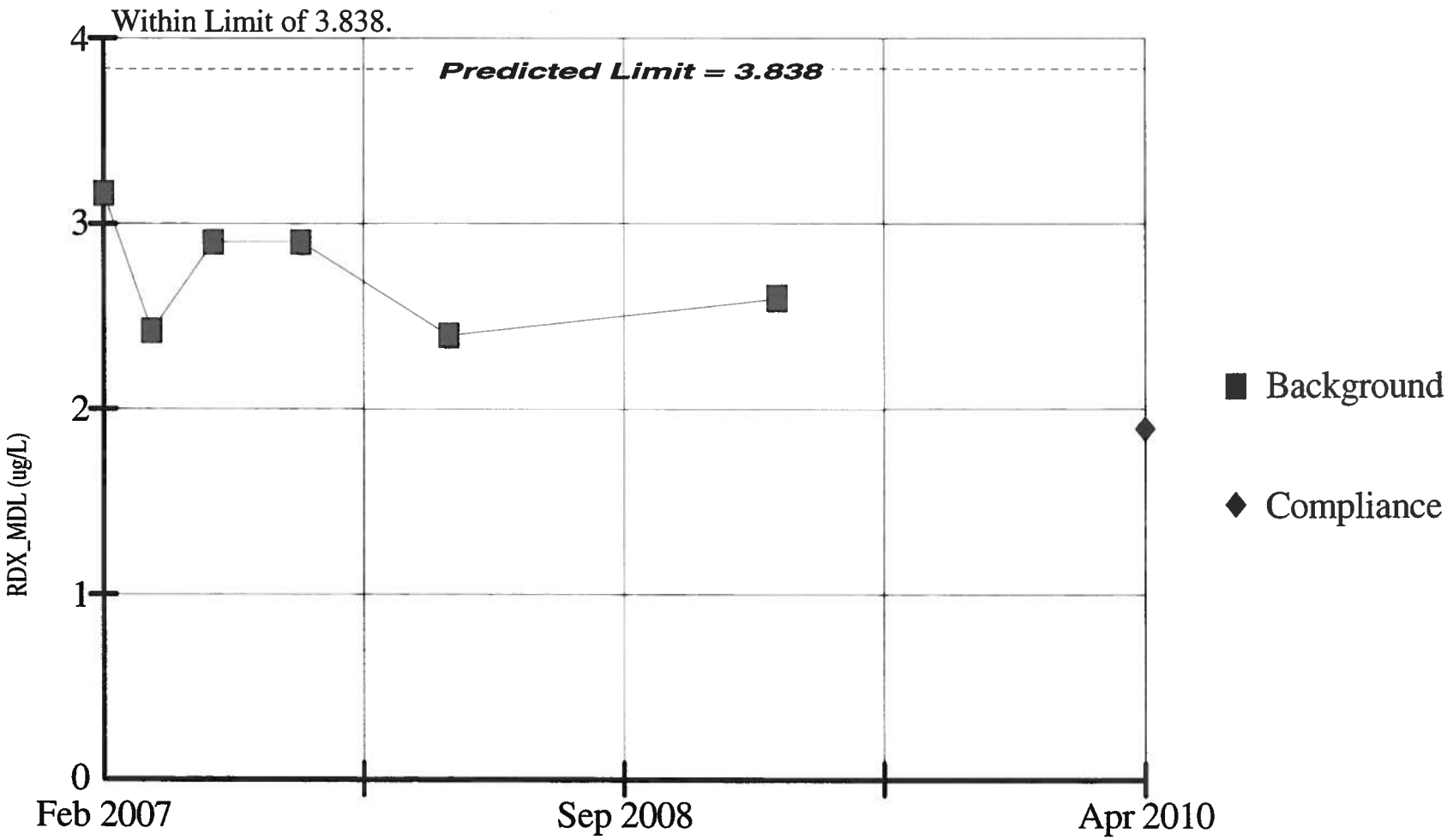
Trend not significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:22 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-099A

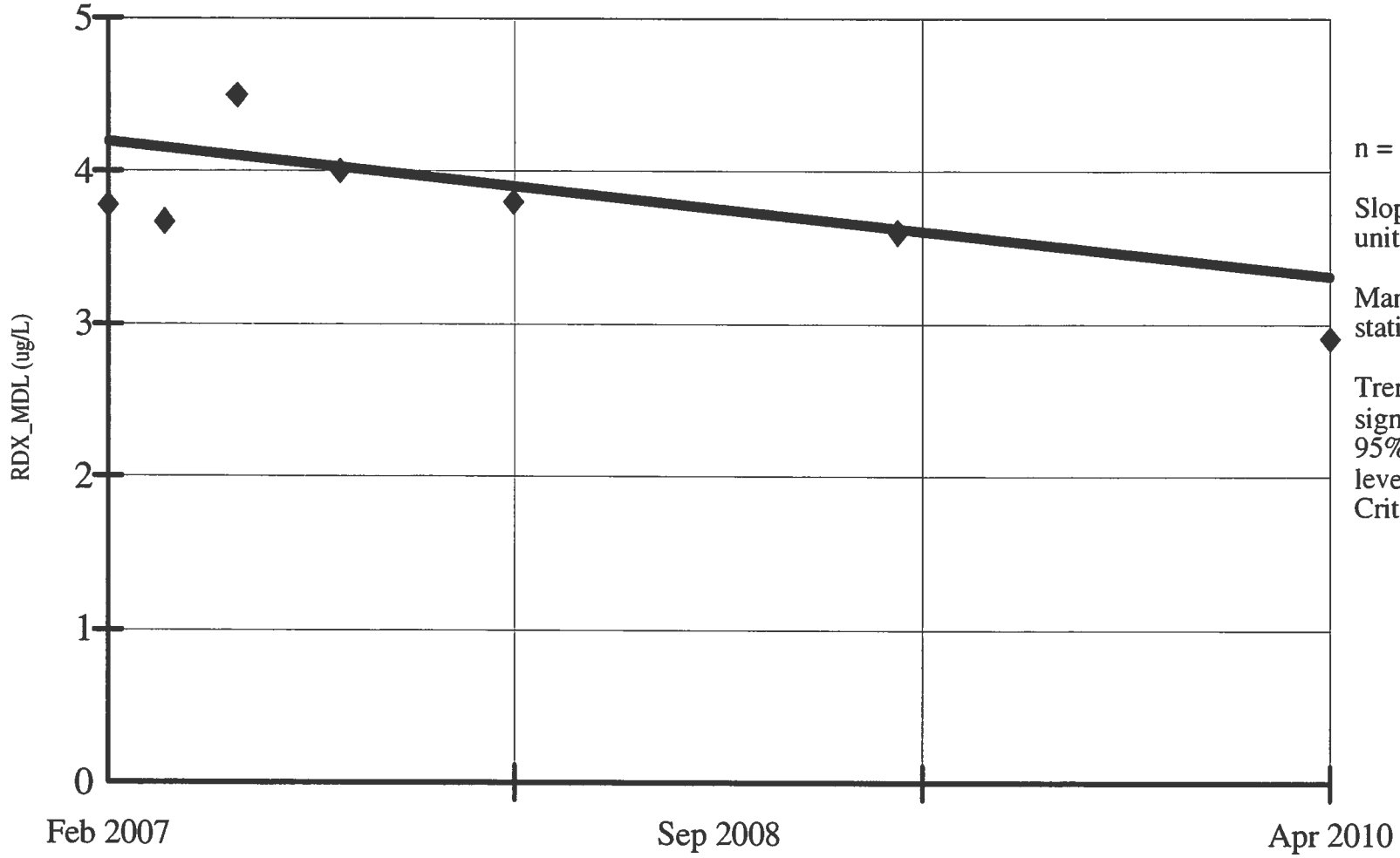


Background Data Summary: Mean=2.73, Std. Dev=0.305, 0% nds, 6 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9085, W Quantile = 0.788 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:03 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-099B



n = 7.

Slope = -0.272 units per year.

Mann Kendall statistic = -9.

Trend not significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: RDX_MDL (ug/L)

Date: 1/28/11, 12:22 PM

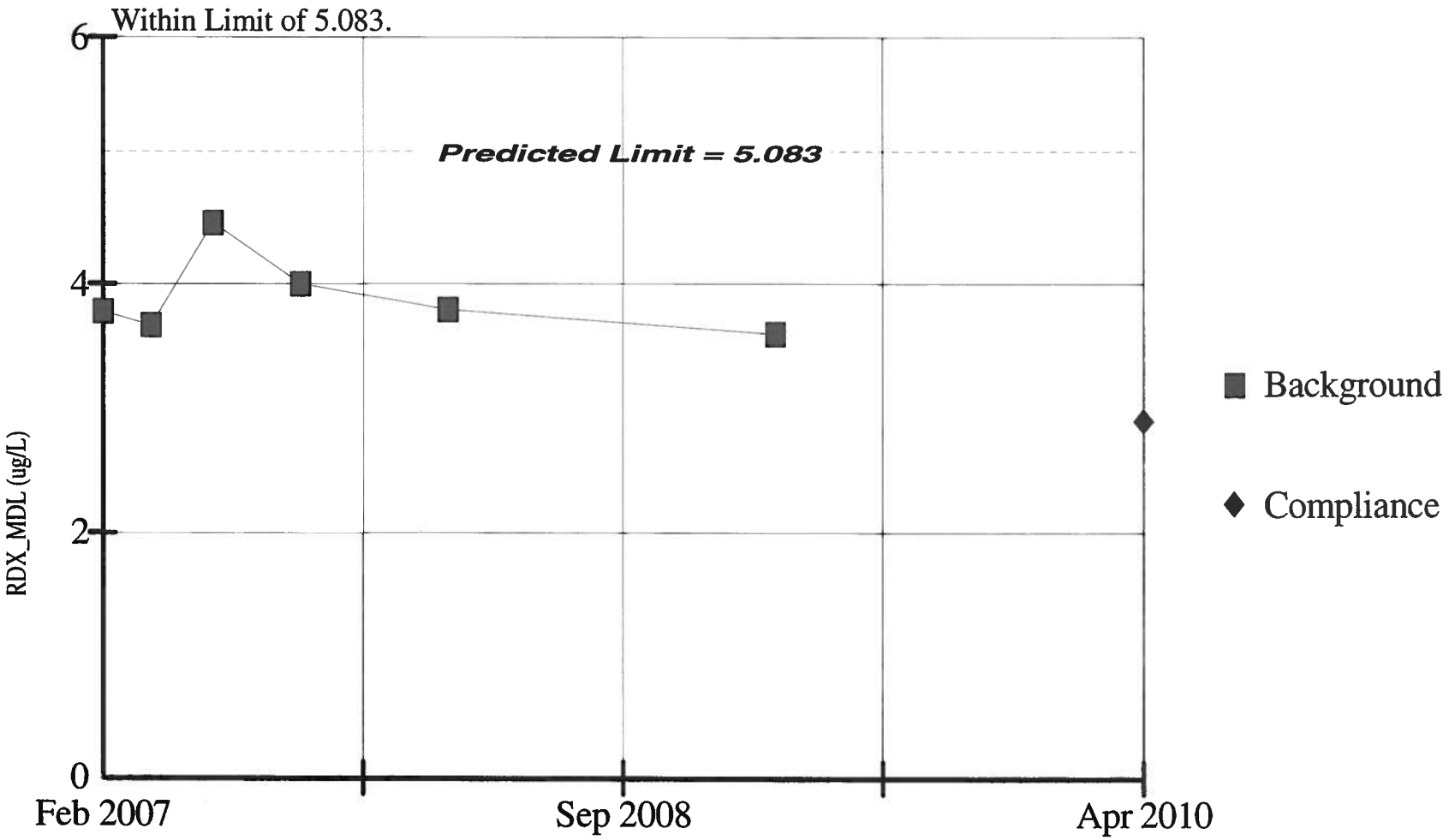
Facility: Mead FNOP

Client: ECC

Data File: Mead 2010 Annual Sanitas 2

View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-099B

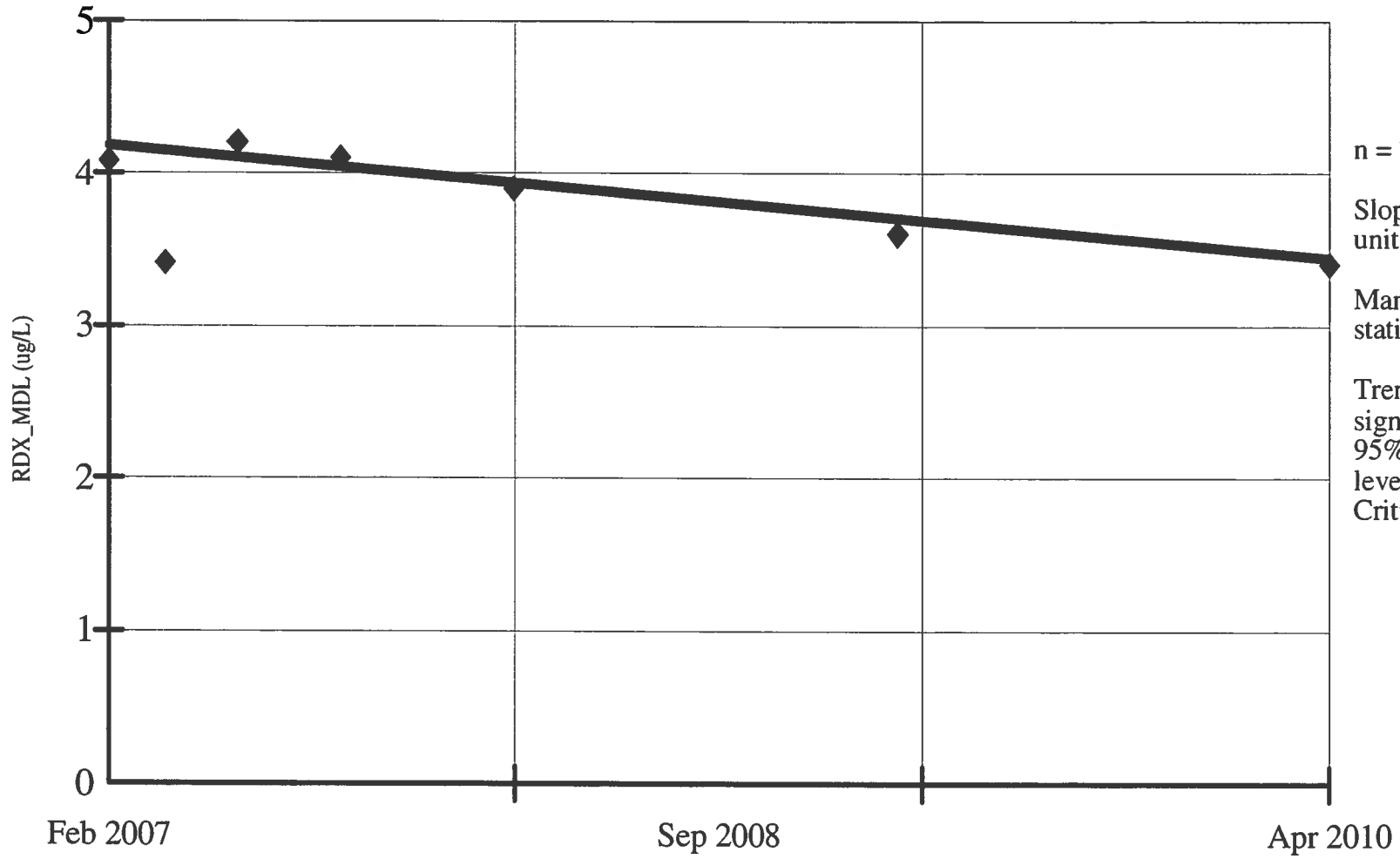


Background Data Summary: Mean=3.892, Std. Dev=0.328, 0% nds, 6 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.844, W Quantile = 0.788 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:03 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-099D



n = 7.

Slope = -0.231 units per year.

Mann Kendall statistic = -9.

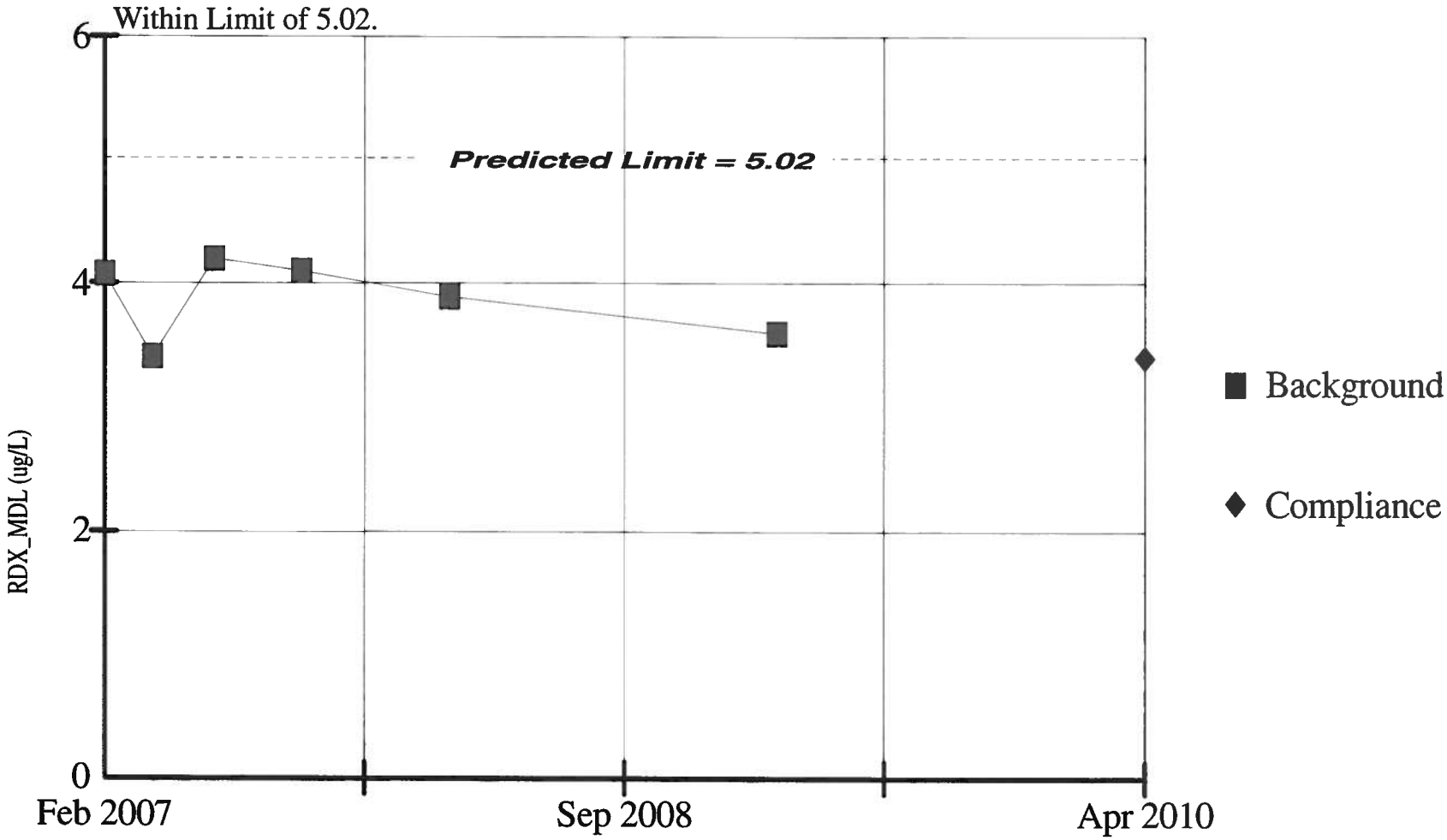
Trend not significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:22 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-099D

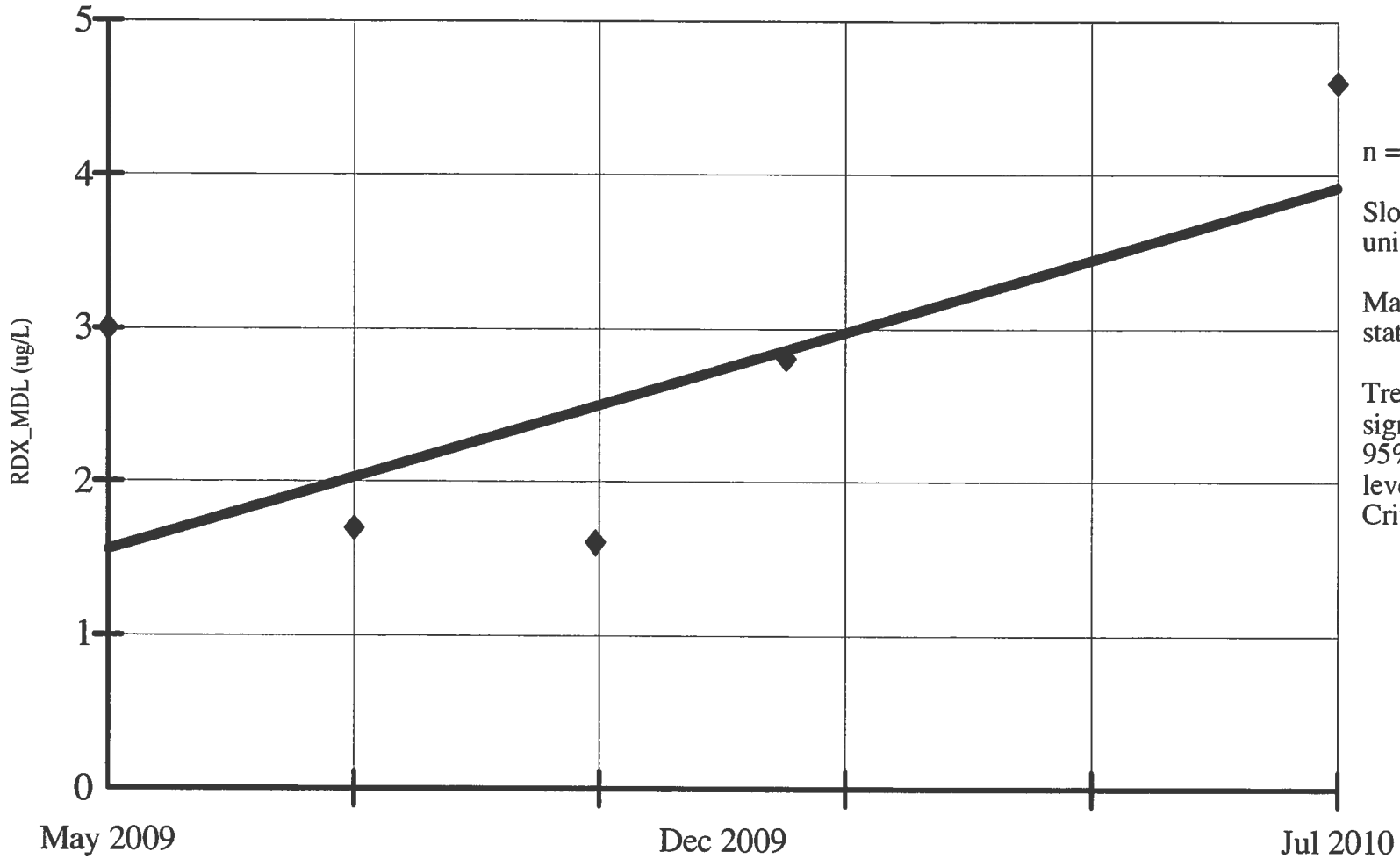


Background Data Summary: Mean=3.882, Std. Dev=0.313, 0% nds, 6 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8992, W Quantile = 0.788 at alpha = 0.05. Testwise alpha = 0.01.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:03 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-104A



n = 5.

Slope = 1.969 units per year.

Mann Kendall statistic = 2.

Trend not significant at 95% confidence level (two tailed). Critical value = 10.

Constituent: RDX_MDL (ug/L)

Date: 1/28/11, 12:22 PM

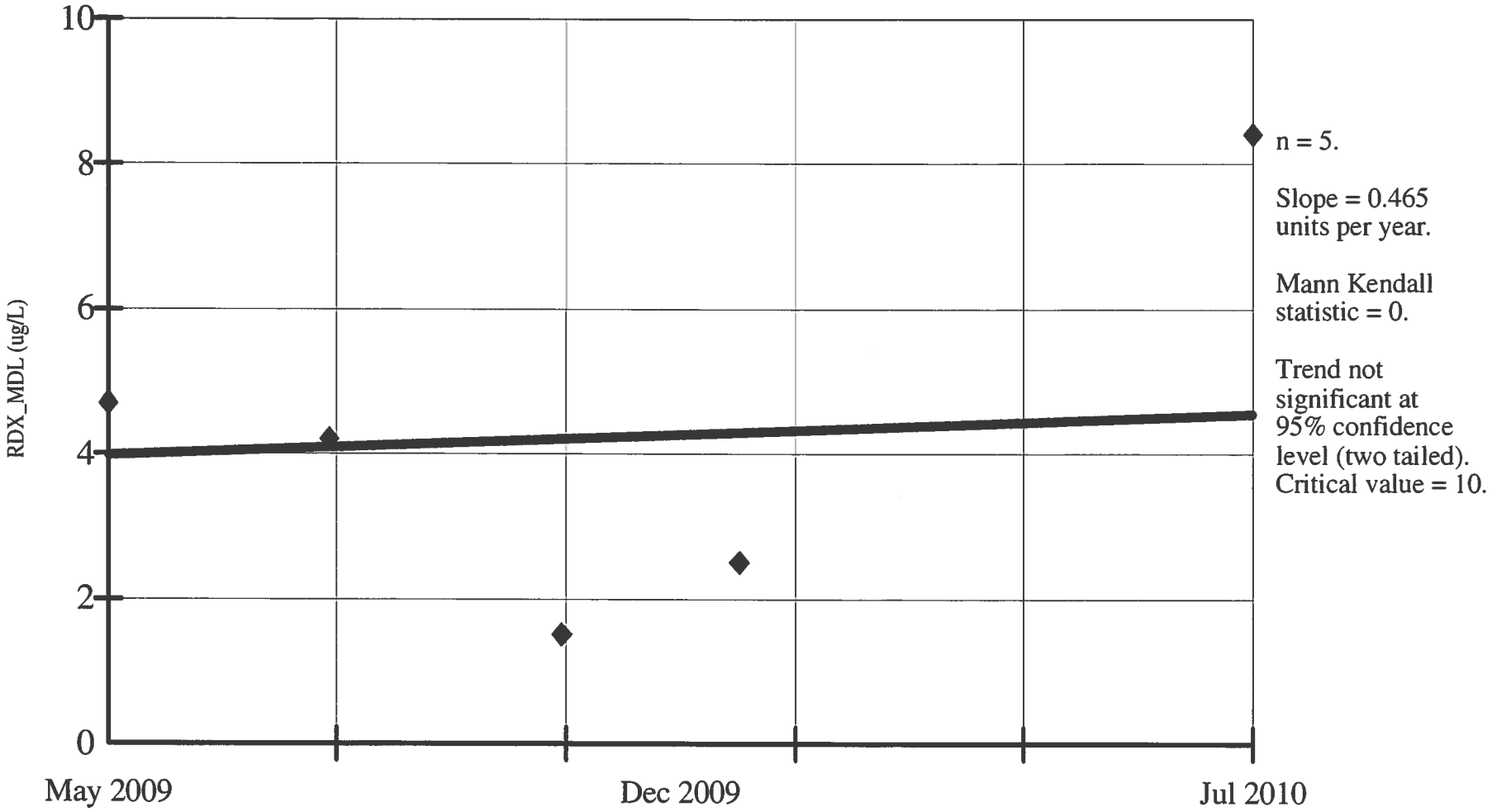
Facility: Mead FNOP

Client: ECC

Data File: Mead 2010 Annual Sanitas 2

View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-104B

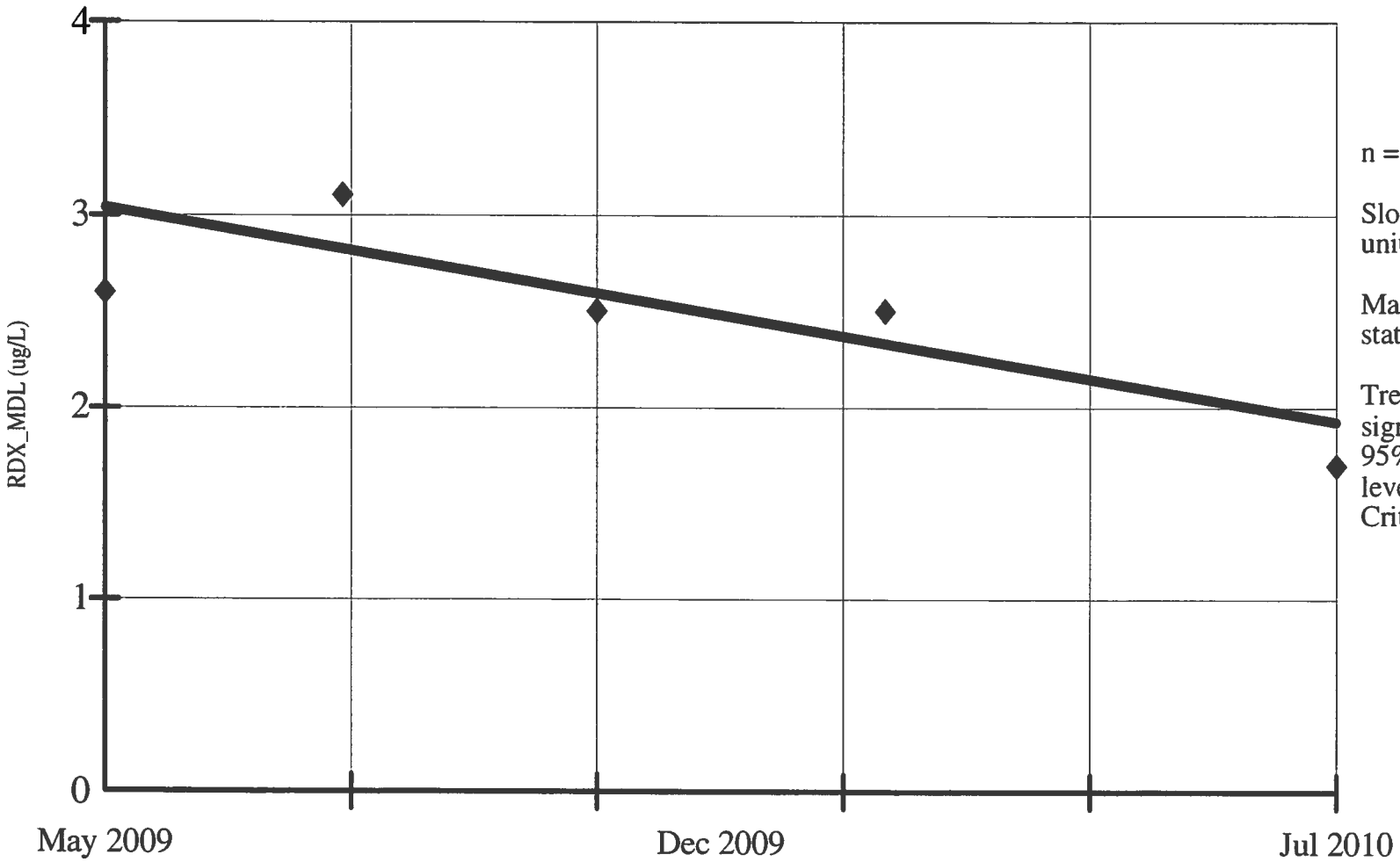


Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:22 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-109A



n = 5.

Slope = -0.926 units per year.

Mann Kendall statistic = -7.

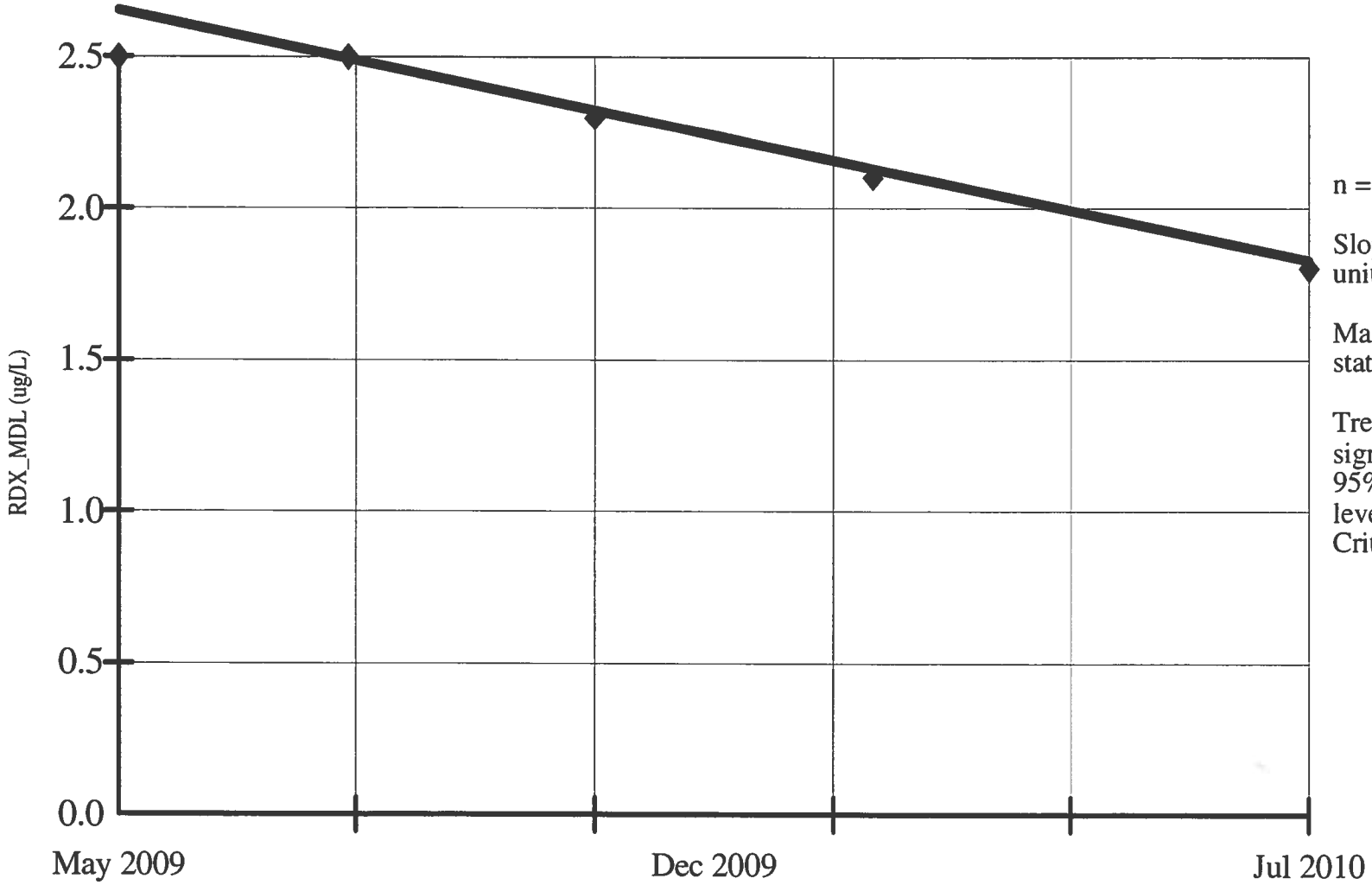
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:23 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-109B



n = 5.

Slope = -0.686 units per year.

Mann Kendall statistic = -9.

Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: RDX_MDL (ug/L)

Date: 1/28/11, 12:23 PM

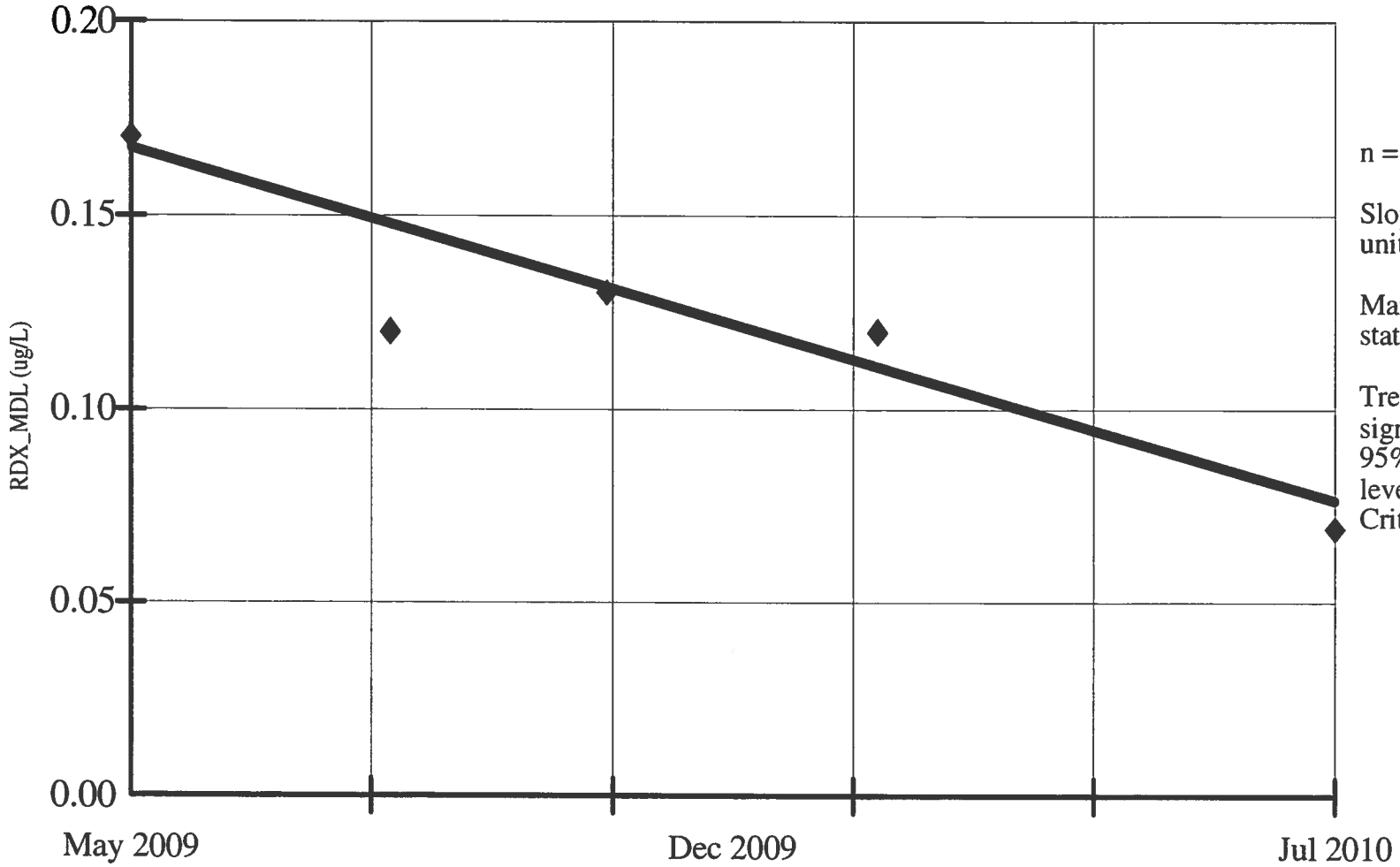
Facility: Mead FNOP

Client: ECC

Data File: Mead 2010 Annual Sanitas 2

View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-111B



n = 5.

Slope = -0.075 units per year.

Mann Kendall statistic = -7.

Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: RDX_MDL (ug/L)

Date: 1/28/11, 12:23 PM

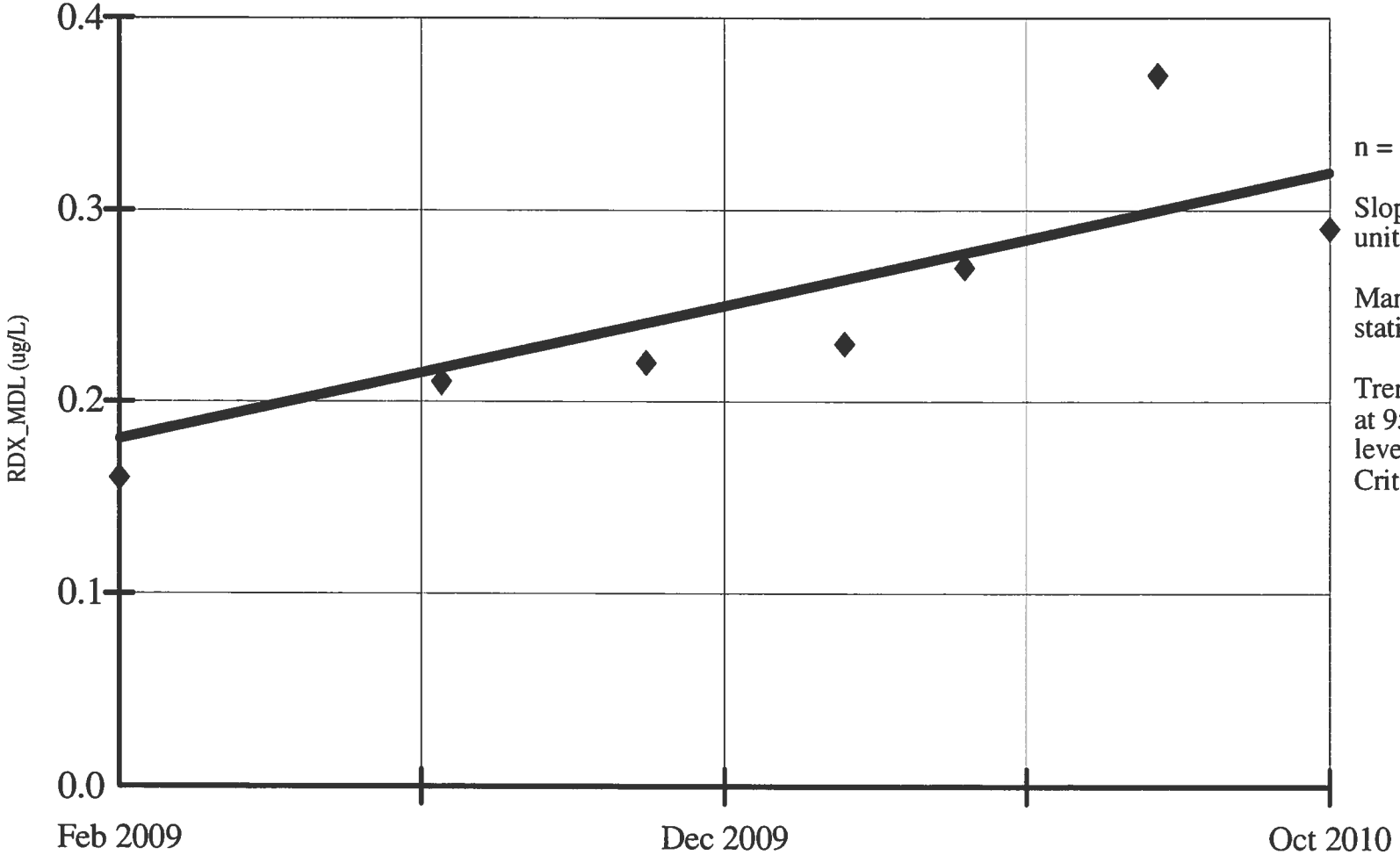
Facility: Mead FNOP

Client: ECC

Data File: Mead 2010 Annual Sanitas 2

View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-118A



n = 7.

Slope = 0.081 units per year.

Mann Kendall statistic = 19.

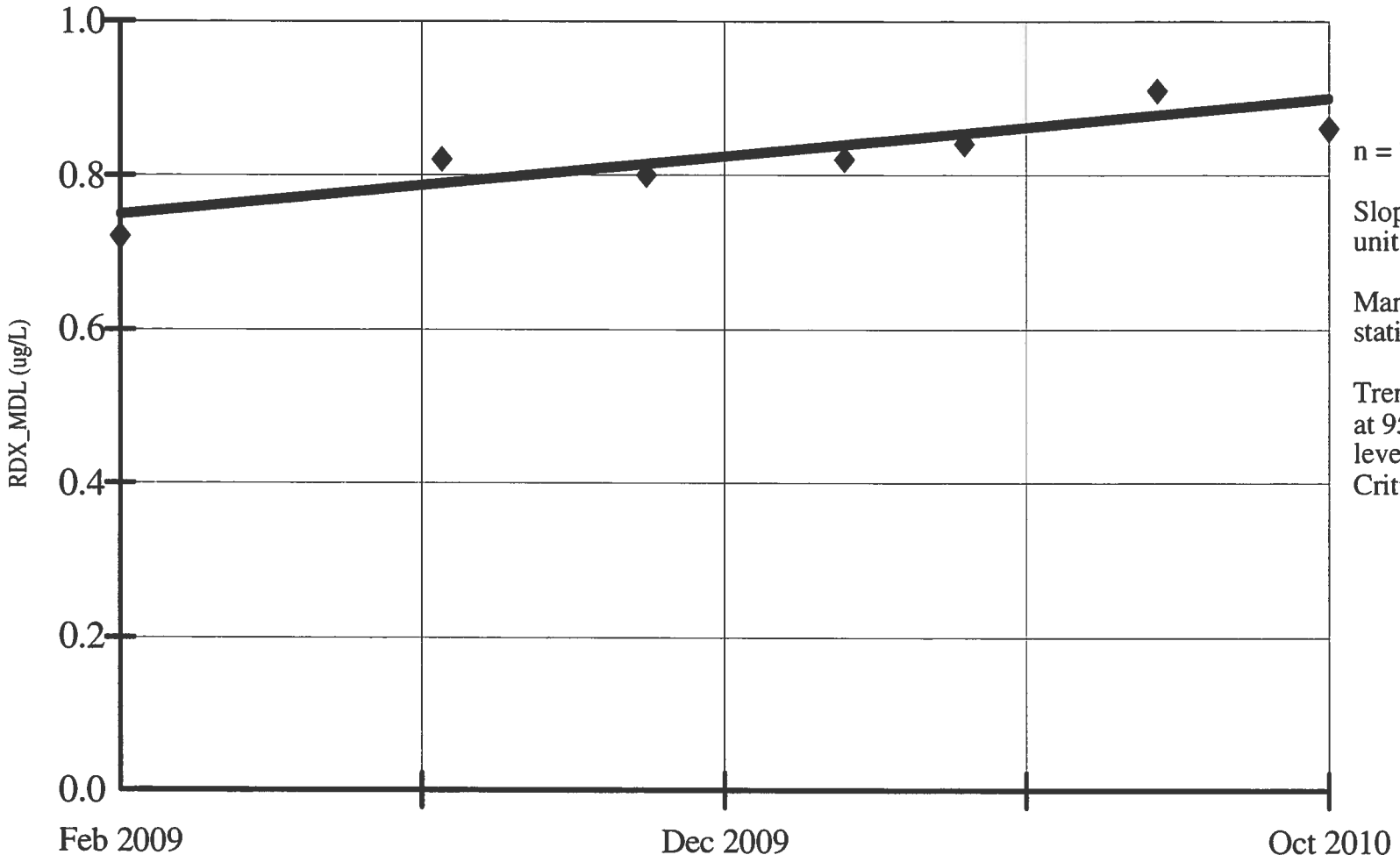
Trend significant at 95% confidence level (two tailed). Critical value = 15.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:24 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-118B



n = 7.

Slope = 0.088 units per year.

Mann Kendall statistic = 16.

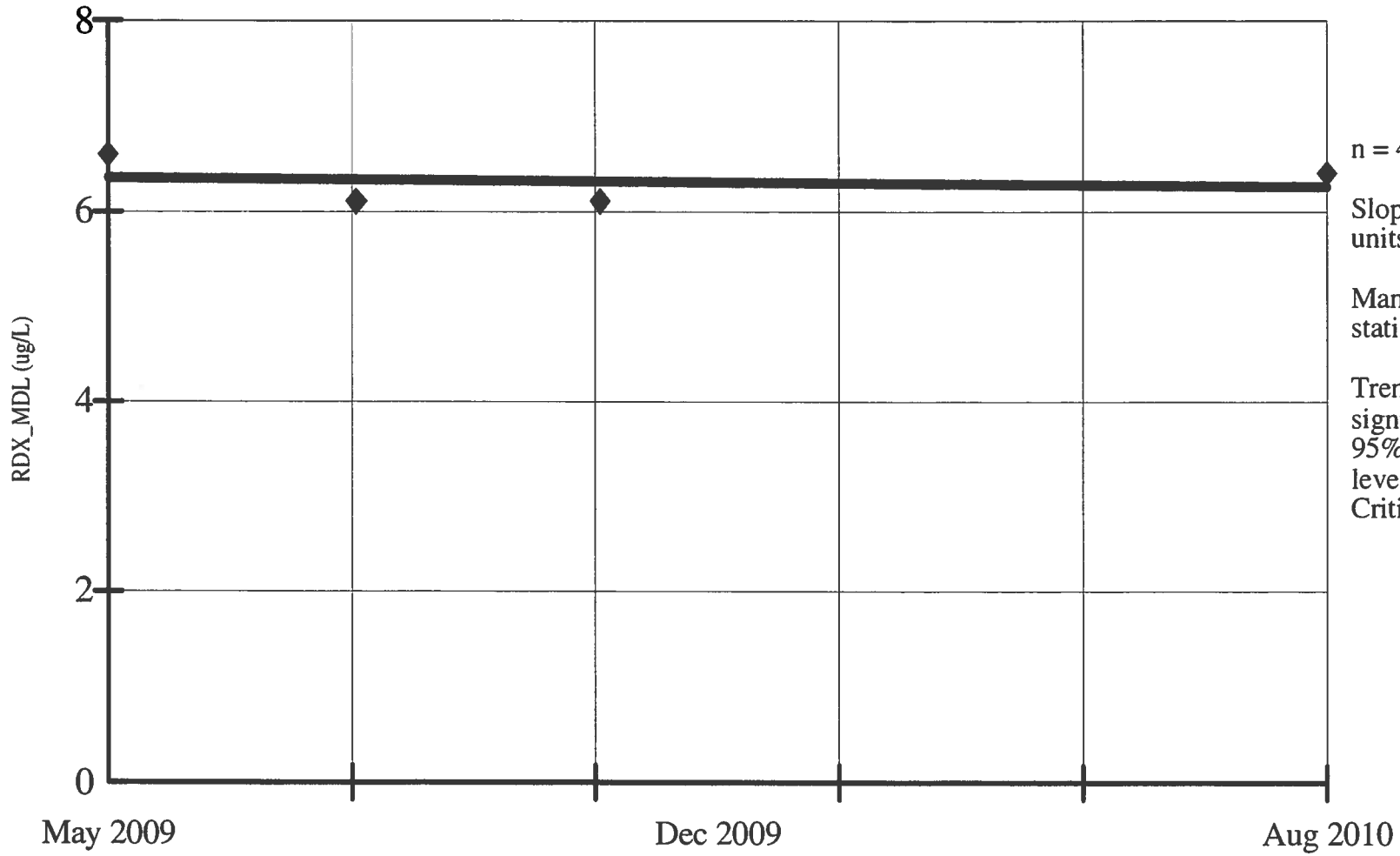
Trend significant at 95% confidence level (two tailed). Critical value = 15.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:24 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-120B



n = 4.

Slope = -0.082 units per year.

Mann Kendall statistic = -1.

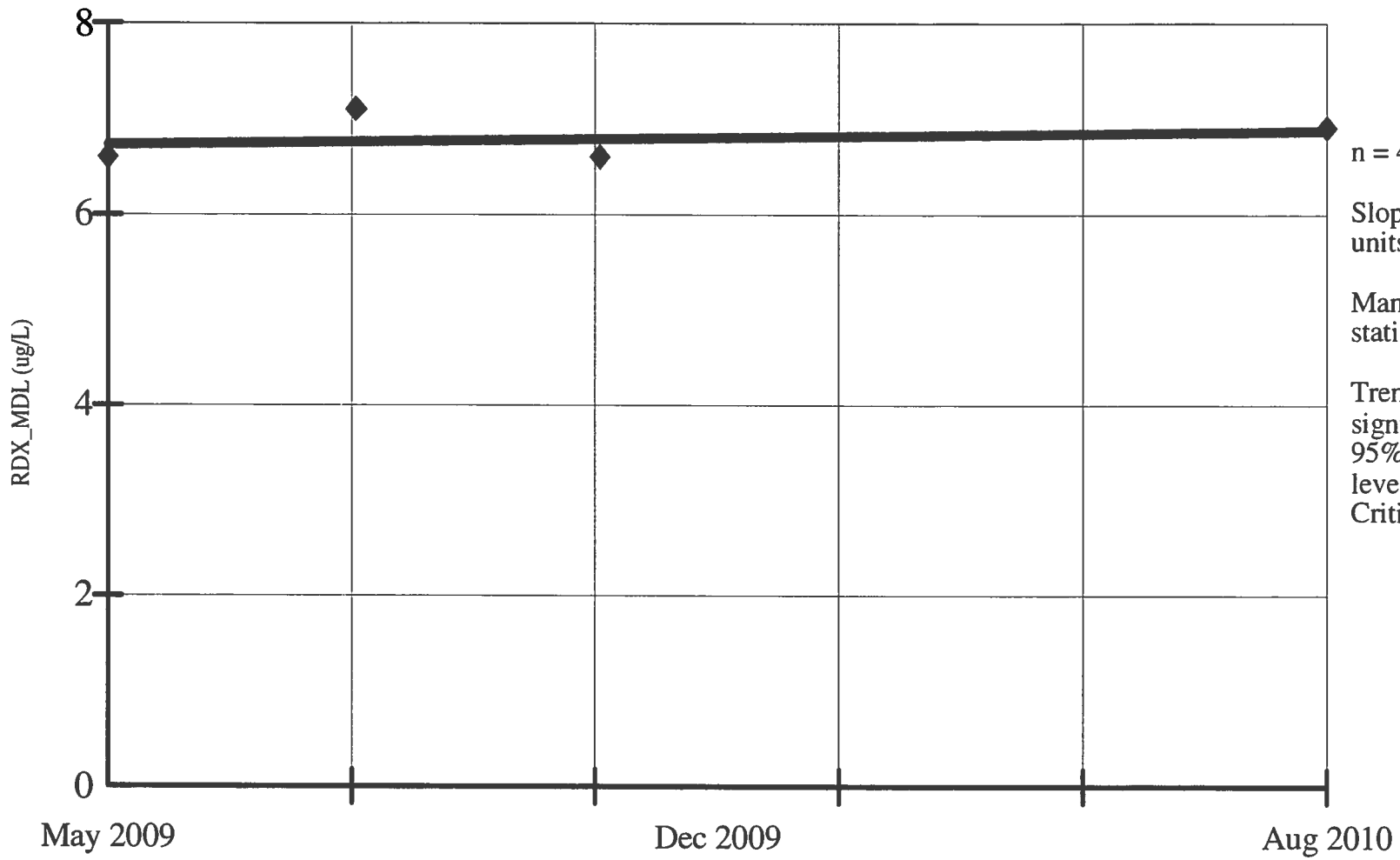
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:24 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-120E



n = 4.

Slope = 0.123 units per year.

Mann Kendall statistic = 1.

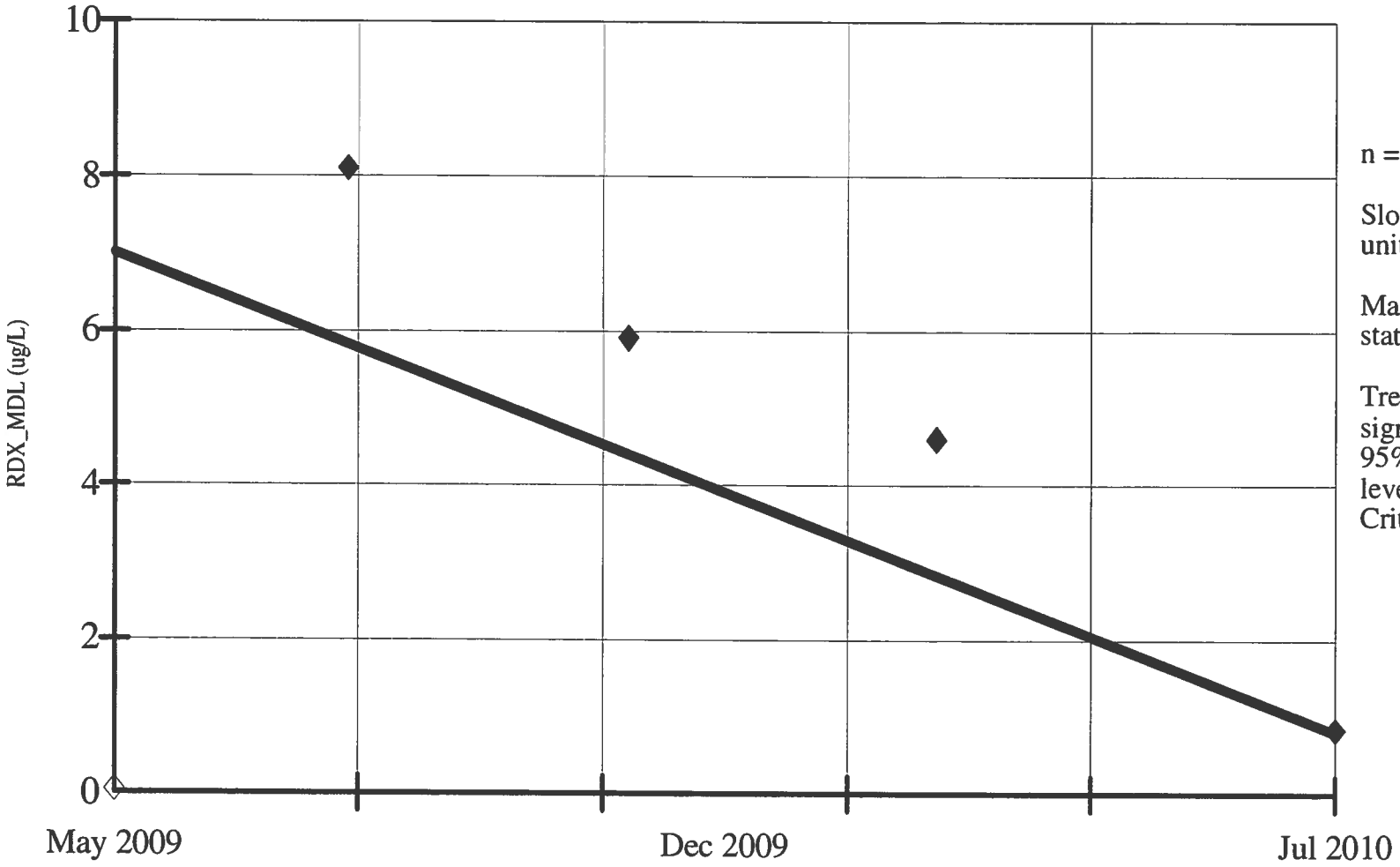
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:24 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-121B



n = 5.

Slope = -5.298 units per year.

Mann Kendall statistic = -2.

Trend not significant at 95% confidence level (two tailed). Critical value = -10.

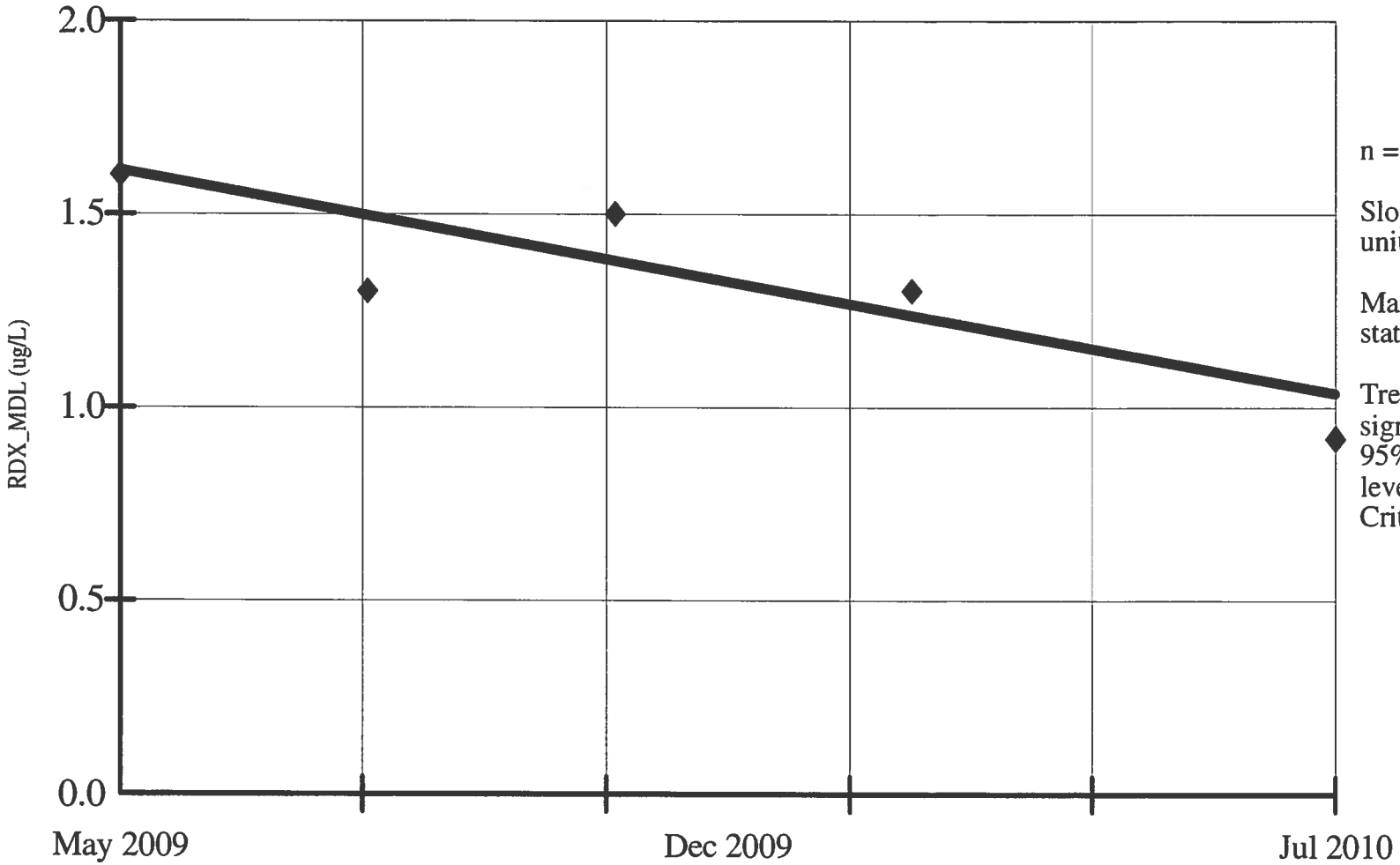
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:24 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-122B



n = 5.

Slope = -0.478 units per year.

Mann Kendall statistic = -7.

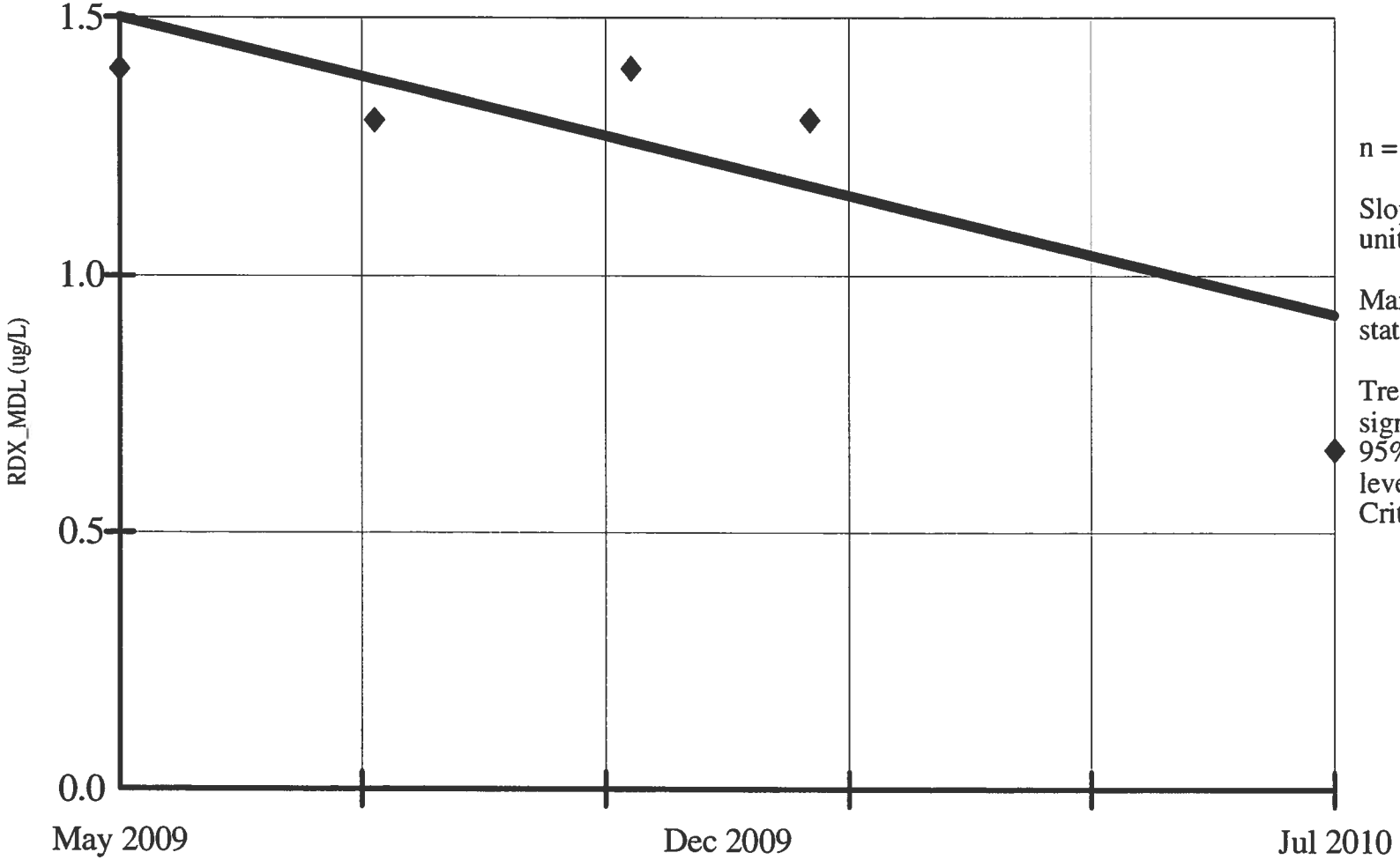
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:25 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-123B



n = 5.

Slope = -0.492 units per year.

Mann Kendall statistic = -6.

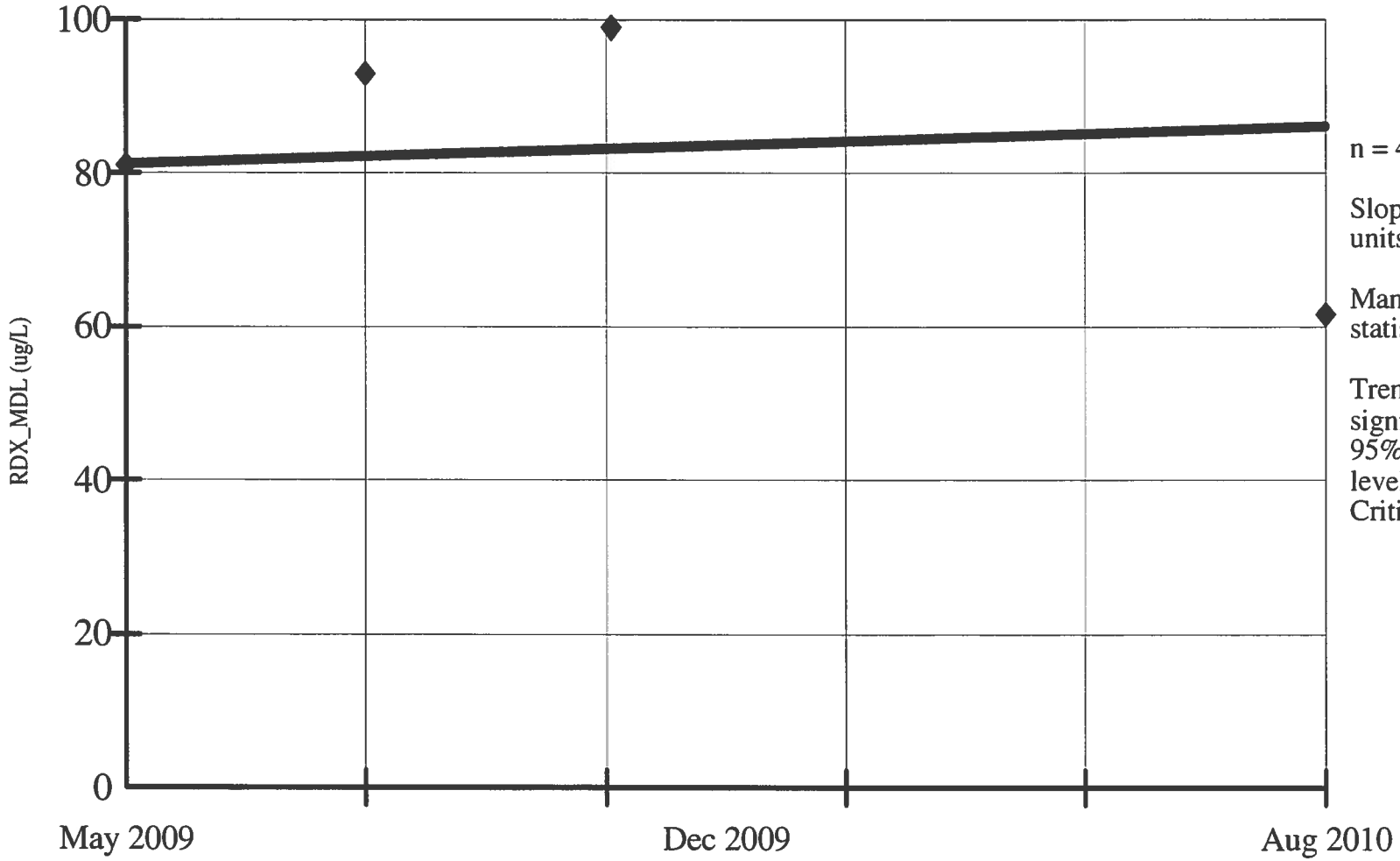
Trend not significant at 95% confidence level (two tailed). Critical value = -10.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:25 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-124B



n = 4.

Slope = 4.075 units per year.

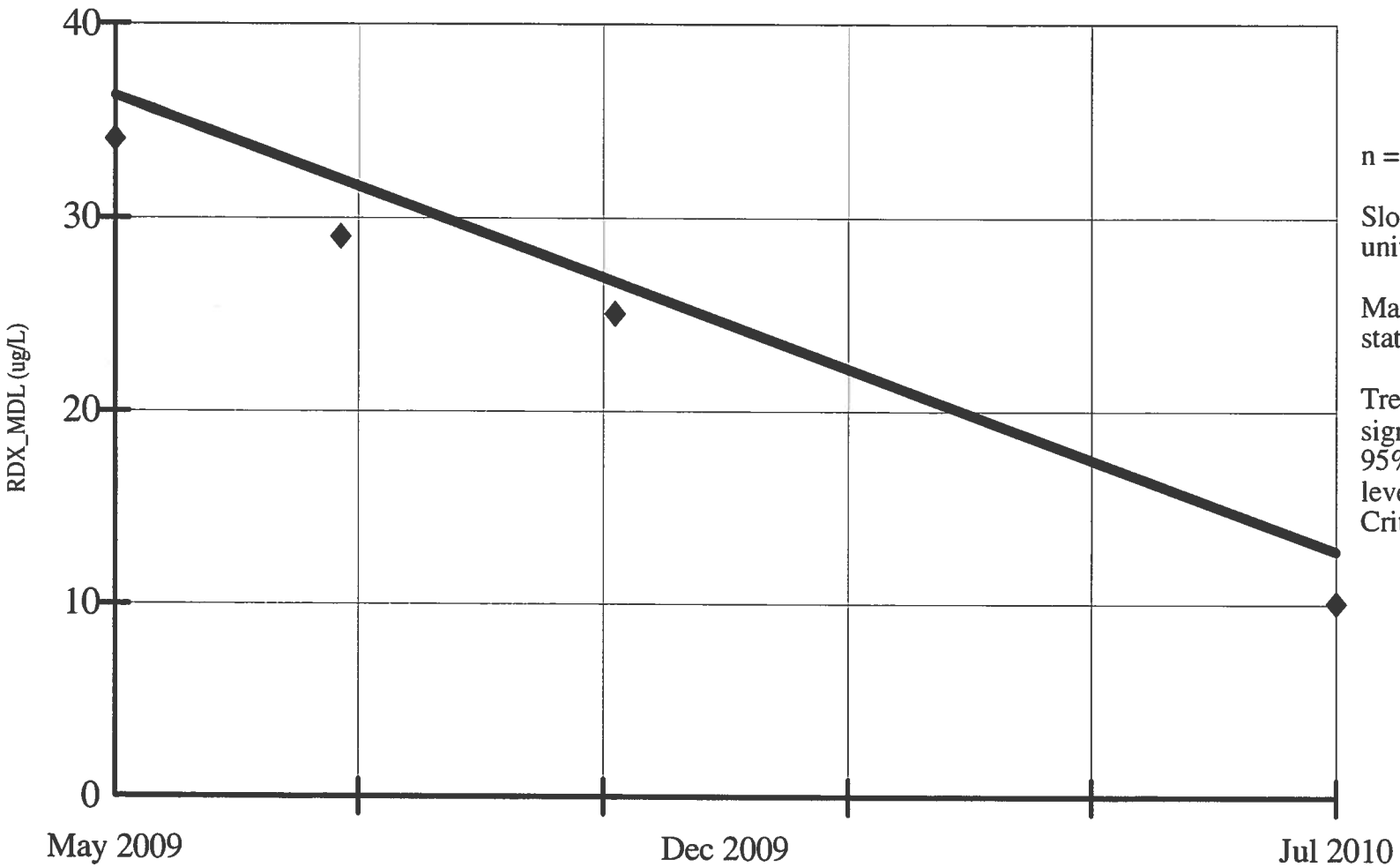
Mann Kendall statistic = 0.

Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 12:25 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-125B



n = 4.

Slope = -19.449 units per year.

Mann Kendall statistic = -6.

Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: RDX_MDL (ug/L)

Date: 1/28/11, 12:25 PM

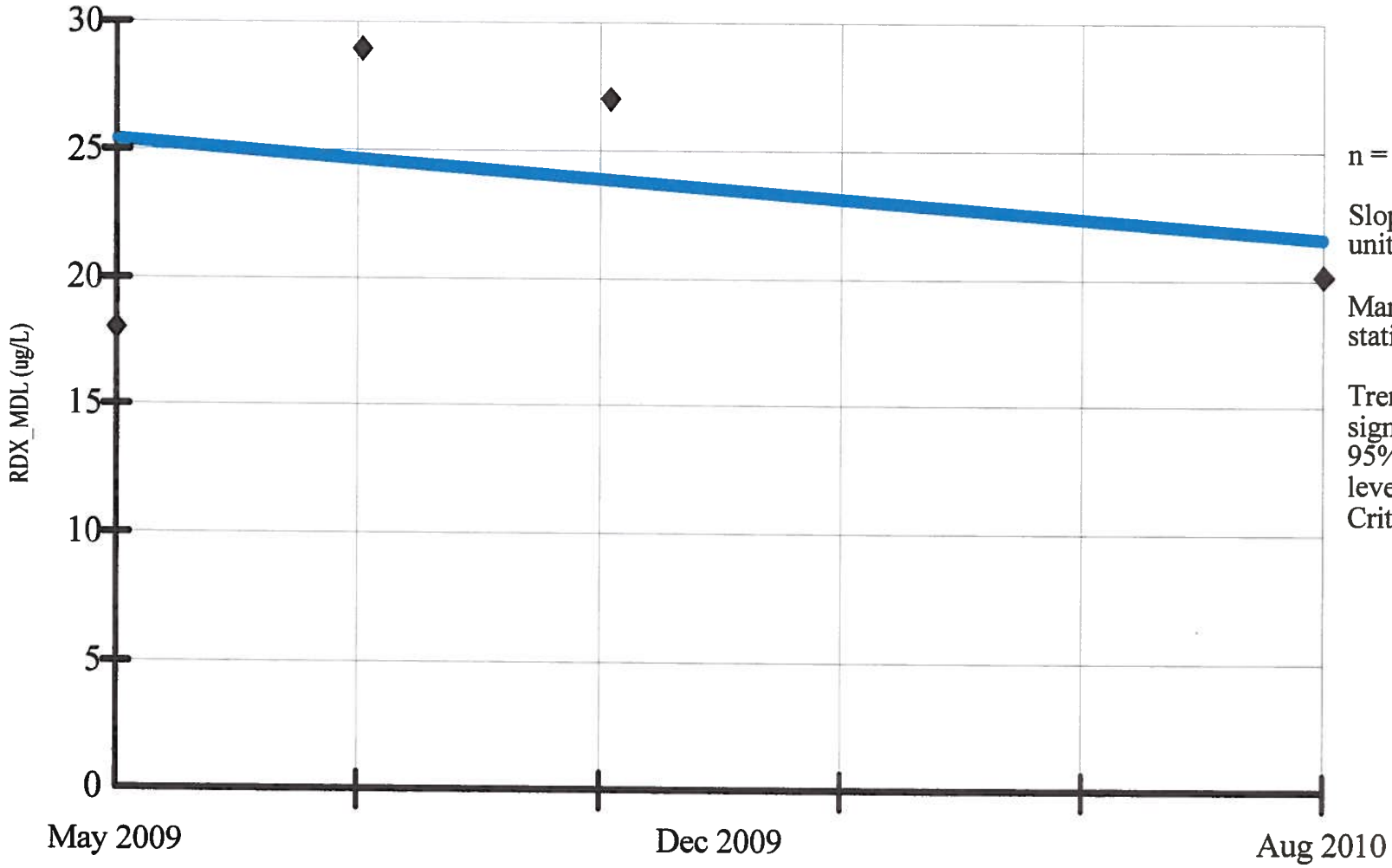
Facility: Mead FNOP

Client: ECC

Data File: Mead 2010 Annual Sanitas 2

View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-126B



n = 4.

Slope = -3.112 units per year.

Mann Kendall statistic = 0.

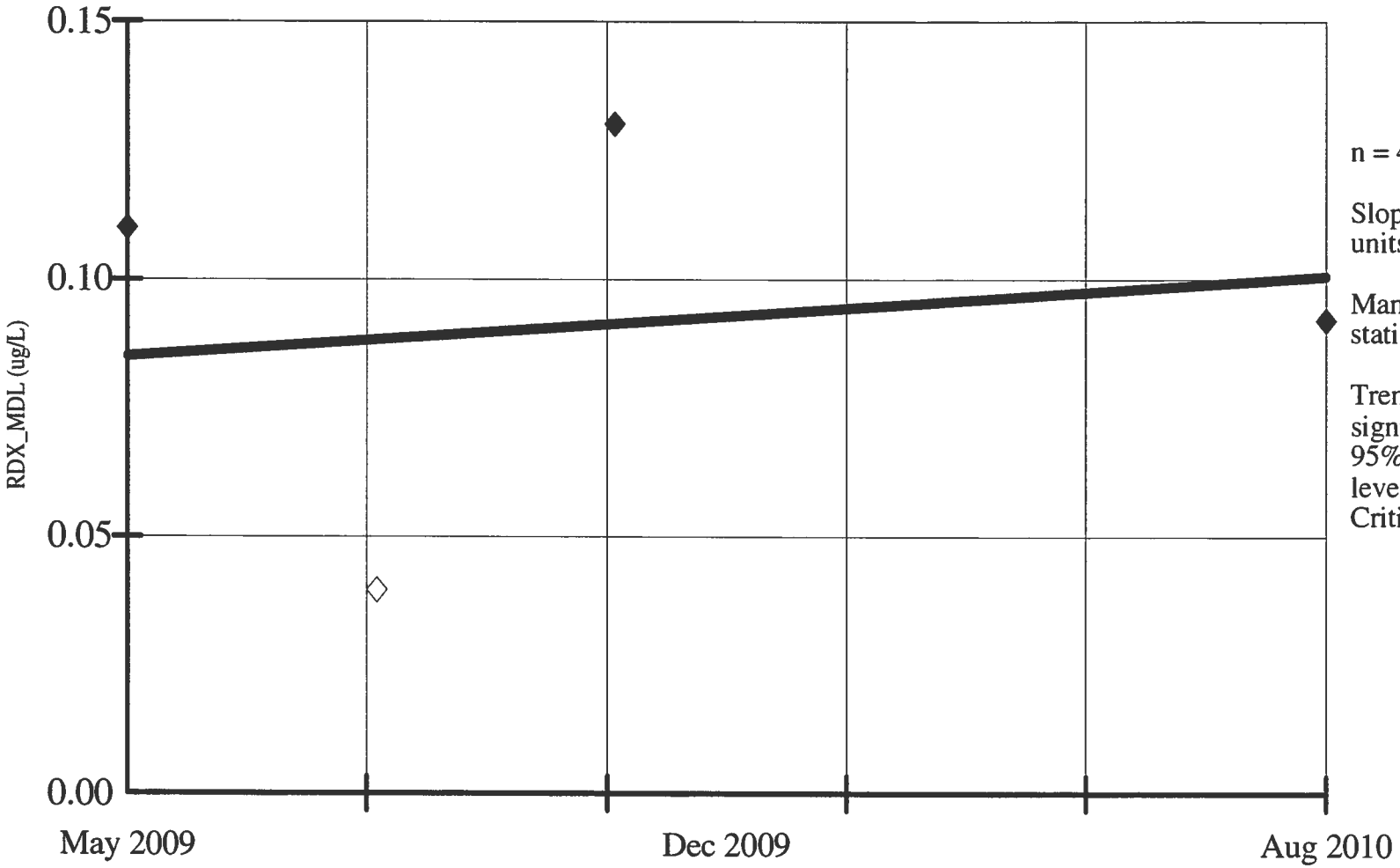
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: RDX_MDL (ug/L)
Date: 1/30/11, 7:37 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-127A



n = 4.

Slope = 0.013 units per year.

Mann Kendall statistic = 0.

Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)

Date: 1/28/11, 12:26 PM

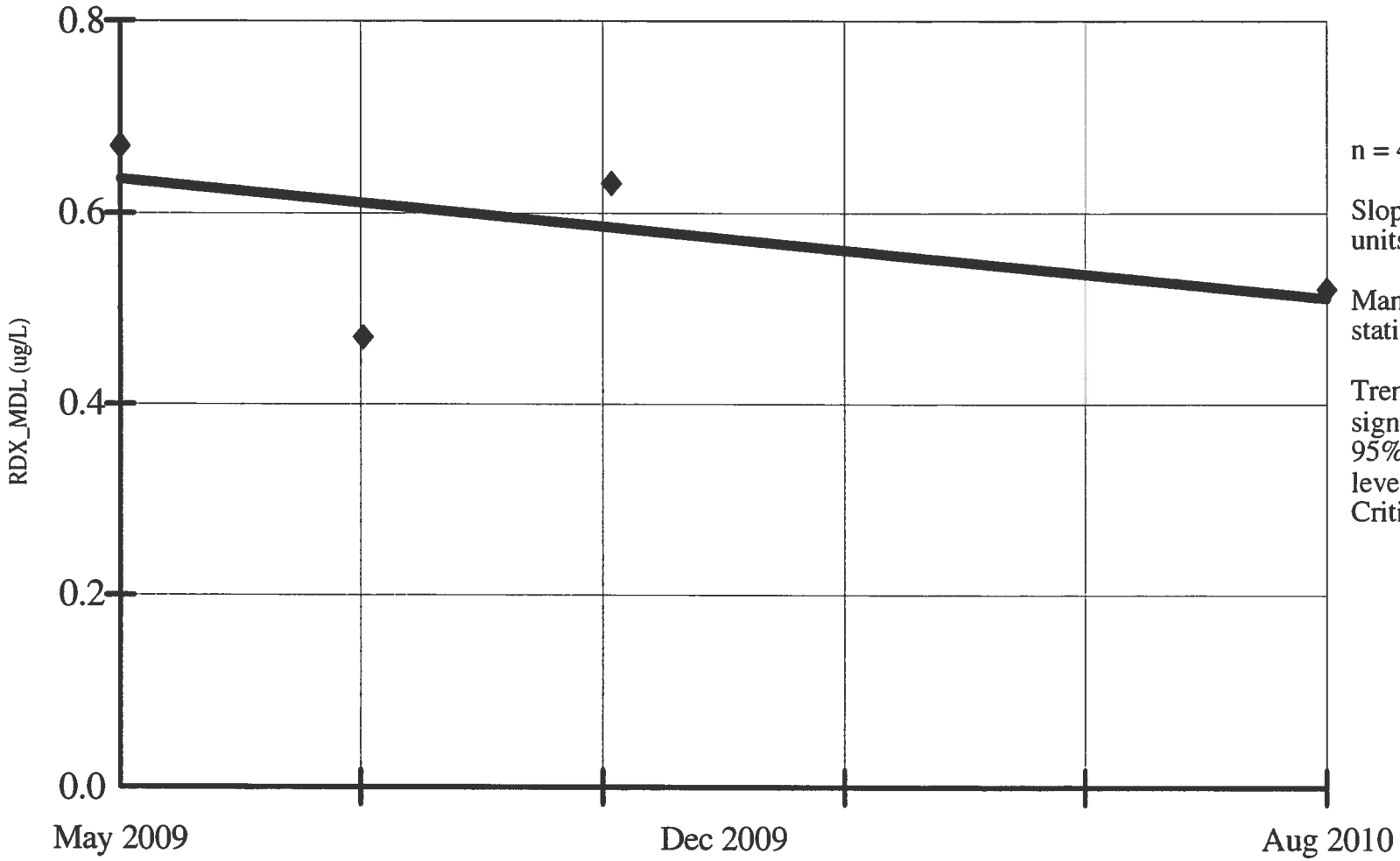
Facility: Mead FNOP

Client: ECC

Data File: Mead 2010 Annual Sanitas 2

View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-127B



n = 4.

Slope = -0.101 units per year.

Mann Kendall statistic = -2.

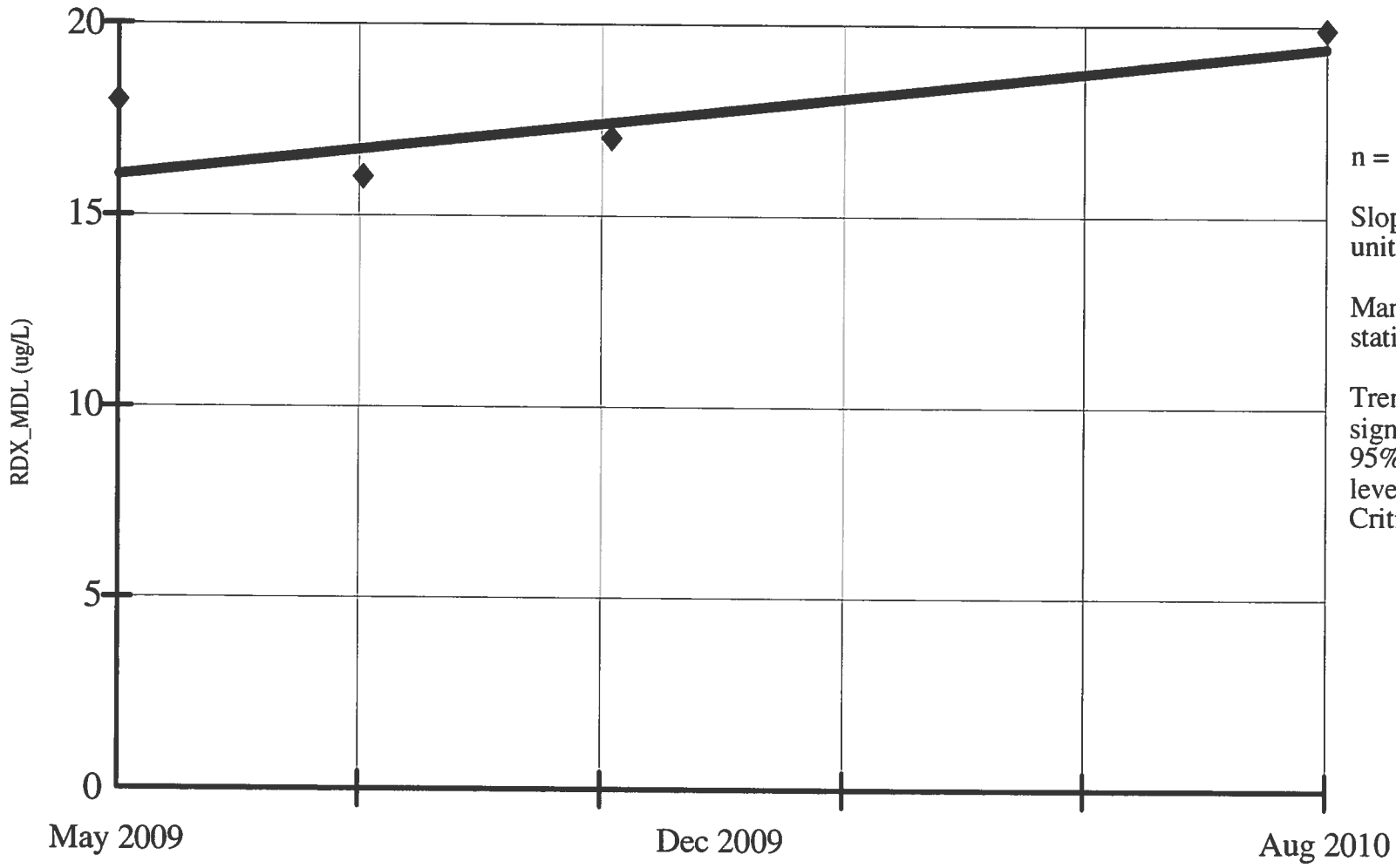
Trend not significant at 95% confidence level (two tailed). Critical value = -8.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:26 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-127E



n = 4.

Slope = 2.758 units per year.

Mann Kendall statistic = 2.

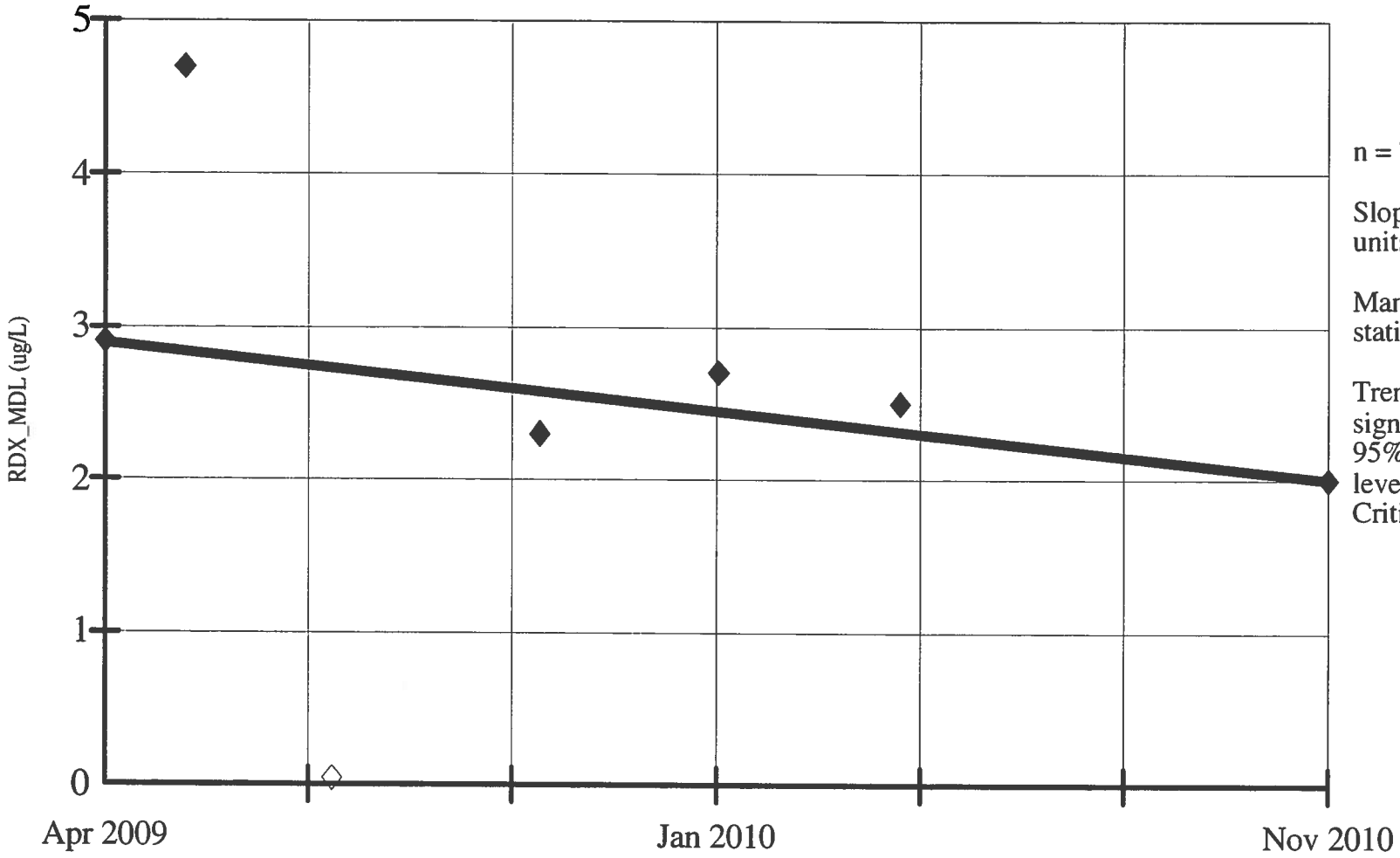
Trend not significant at 95% confidence level (two tailed). Critical value = 8.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:26 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-128A



n = 7.

Slope = -0.566 units per year.

Mann Kendall statistic = -7.

Trend not significant at 95% confidence level (two tailed). Critical value = -15.

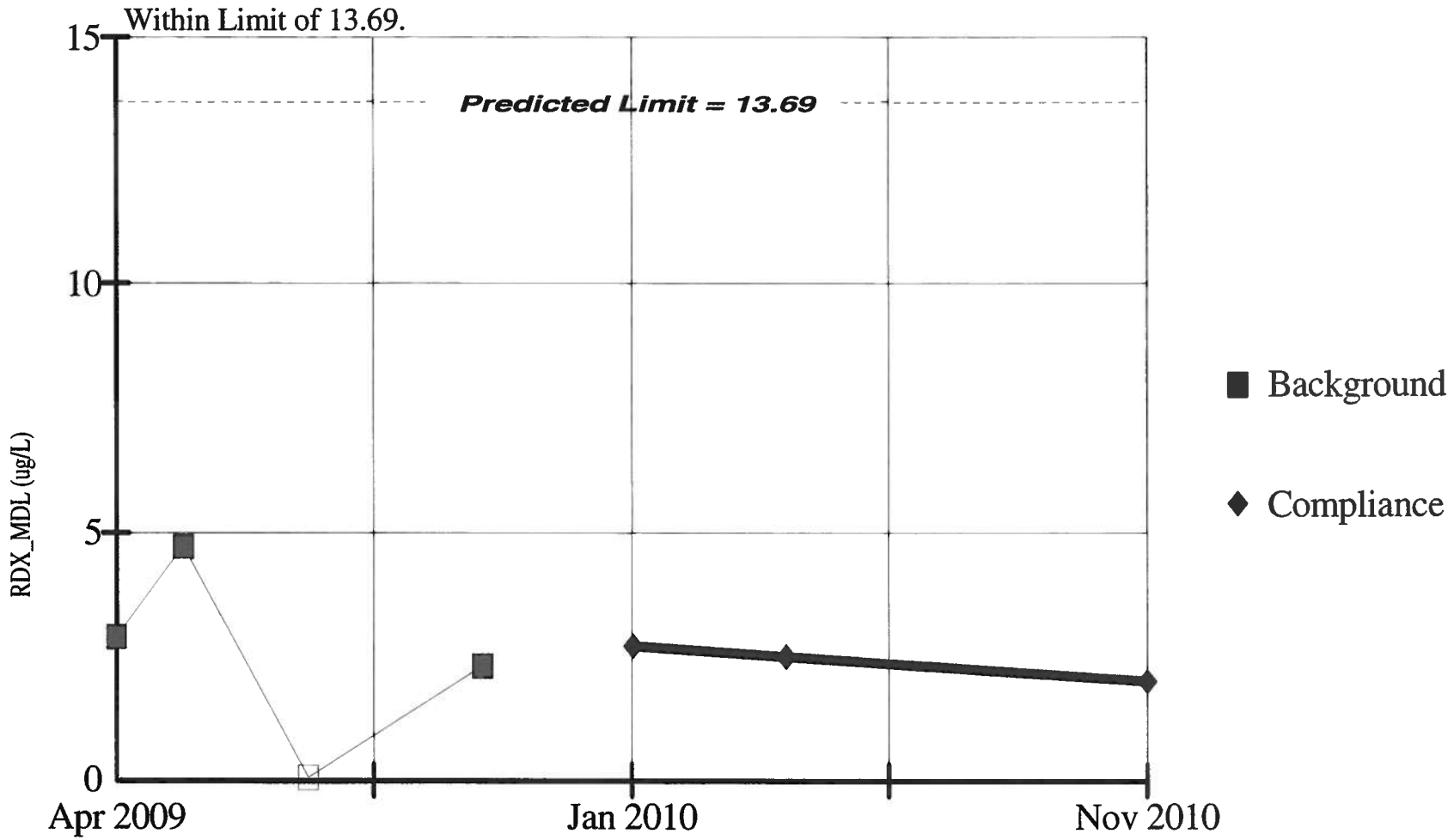
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:26 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-128A

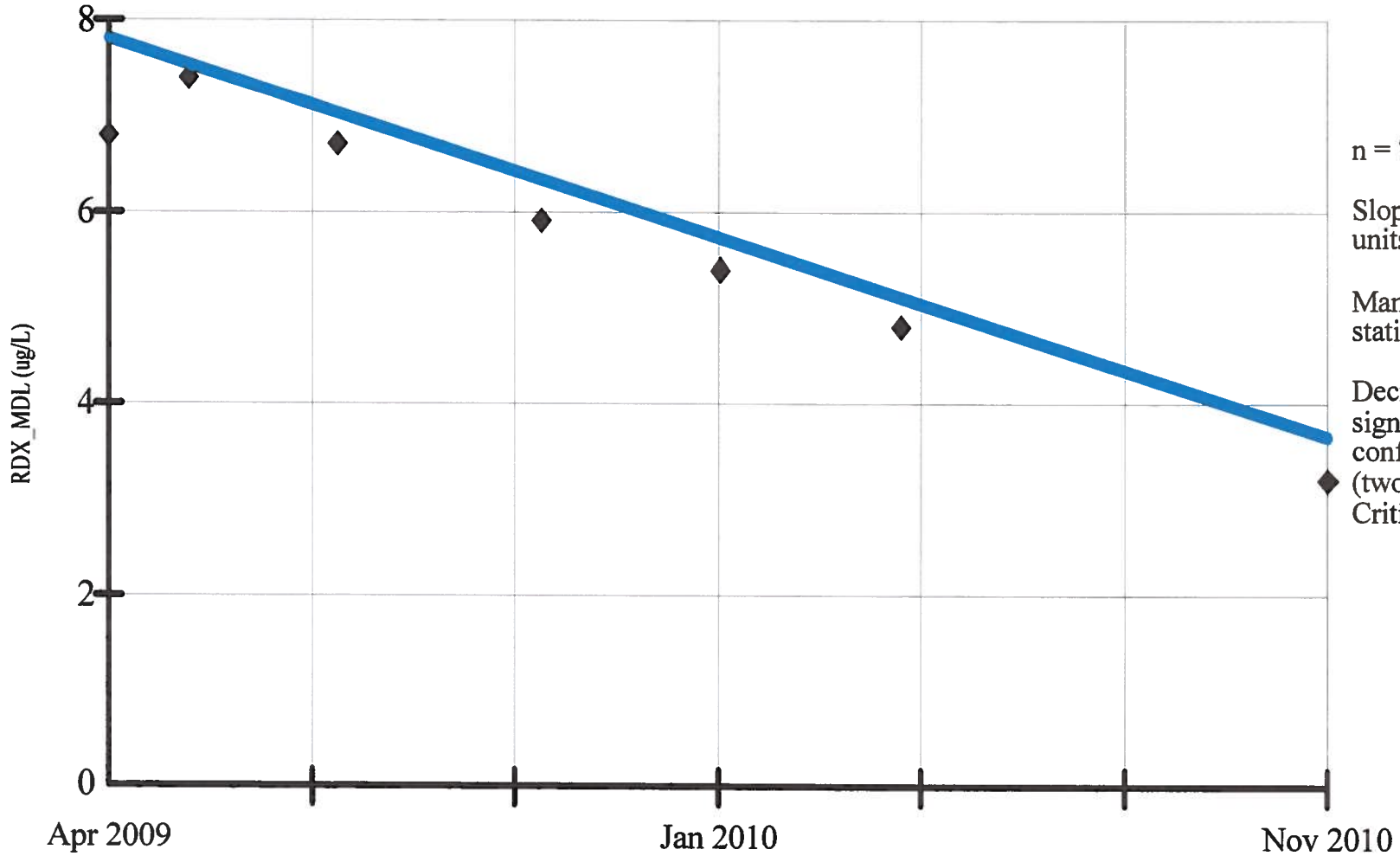


Background Data Summary: (after Cohen's adjustment) Mean=2.19, Std. Dev=2.266, 25% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9837, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit. Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:07 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-128B



n = 7.

Slope = -2.607 units per year.

Mann Kendall statistic = -19.

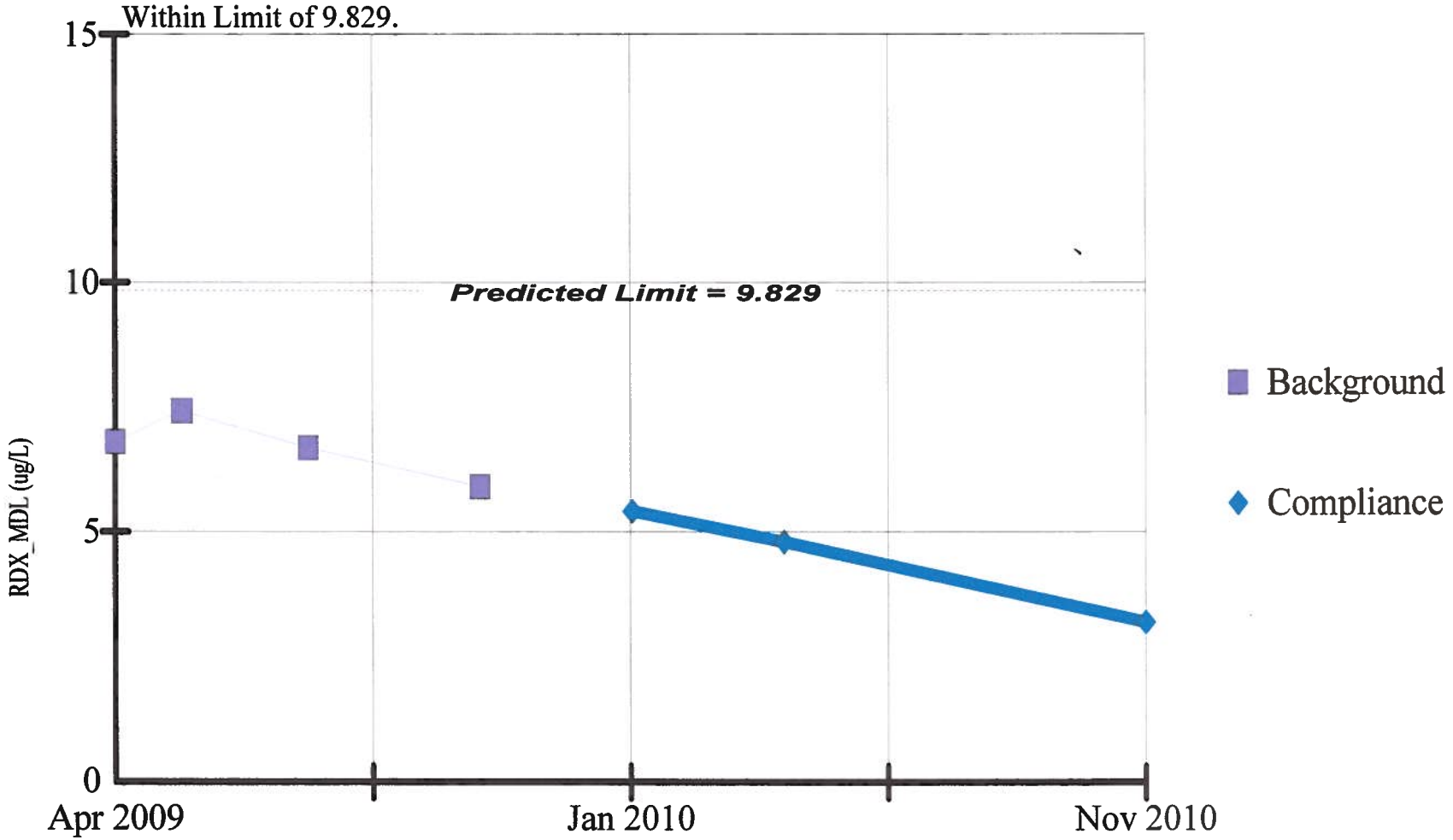
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: RDX_MDL (ug/L)
Date: 1/30/11, 5:10 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-128B

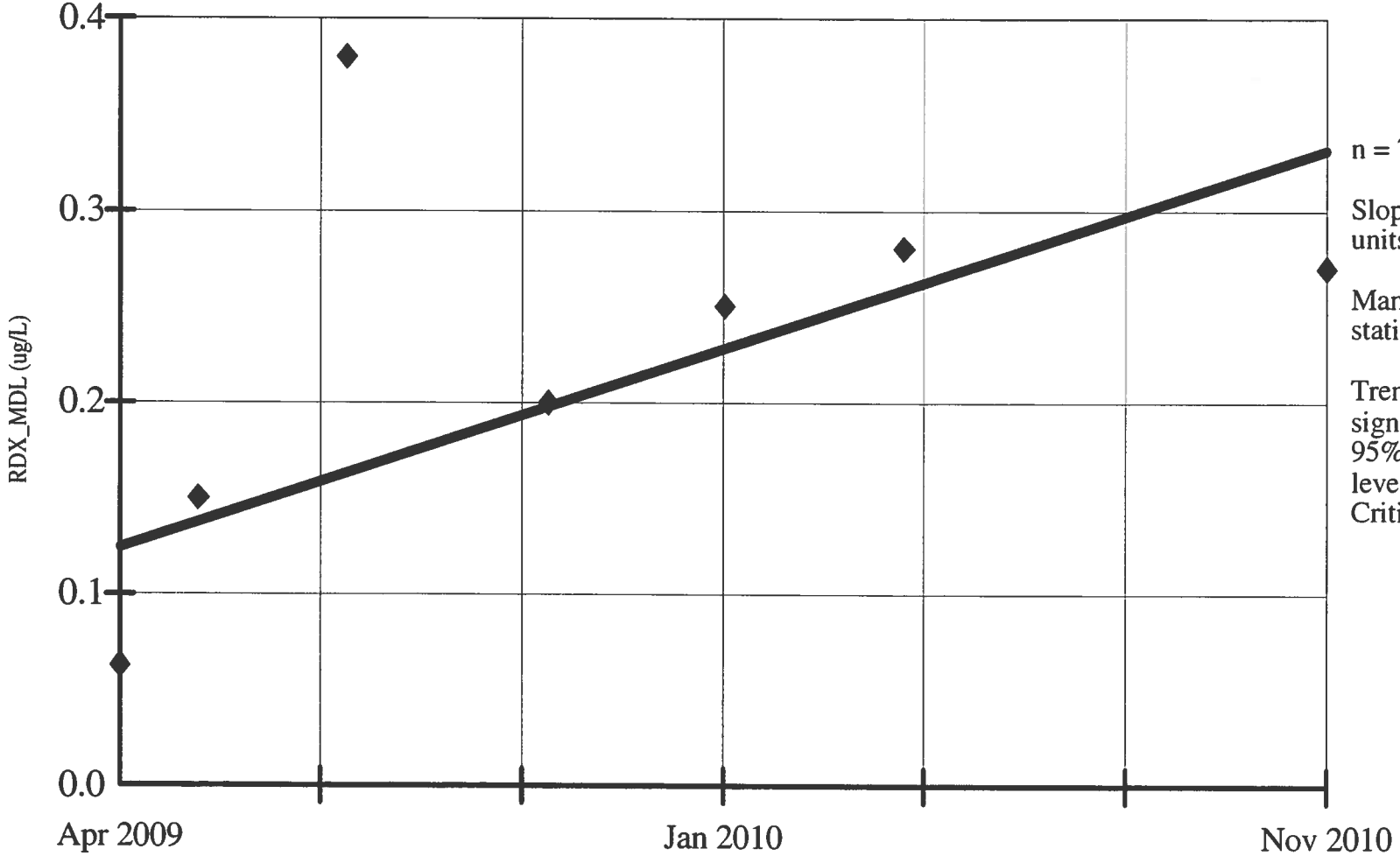


Background Data Summary: Mean=6.7, Std. Dev=0.616, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9626, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/30/11, 7:22 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-128D



n = 7.

Slope = 0.13 units per year.

Mann Kendall statistic = 11.

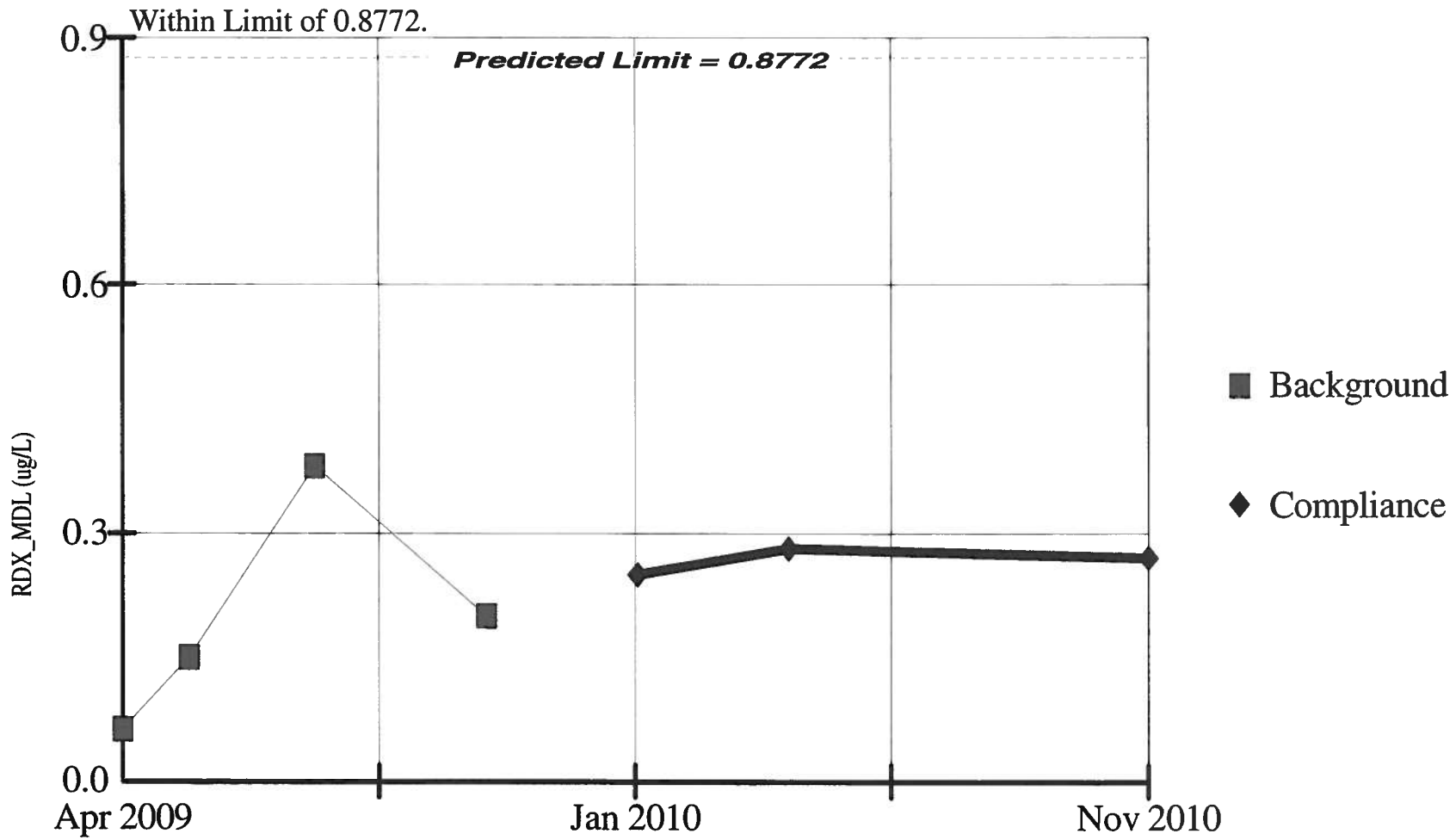
Trend not significant at 95% confidence level (two tailed). Critical value = 15.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:26 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-128D

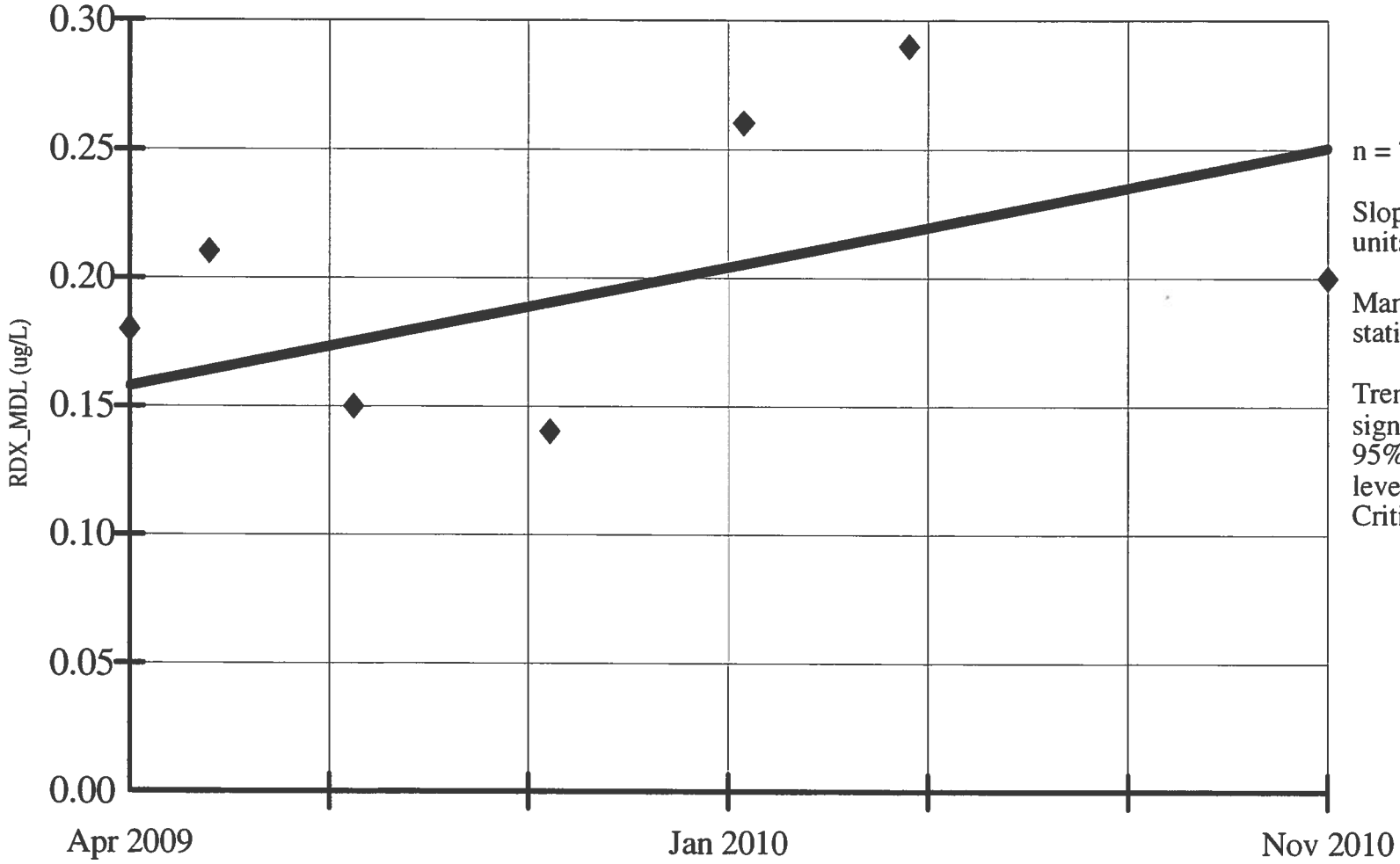


Background Data Summary: Mean=0.198, Std. Dev=0.134, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9538, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:07 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-129A



n = 7.

Slope = 0.058 units per year.

Mann Kendall statistic = 5.

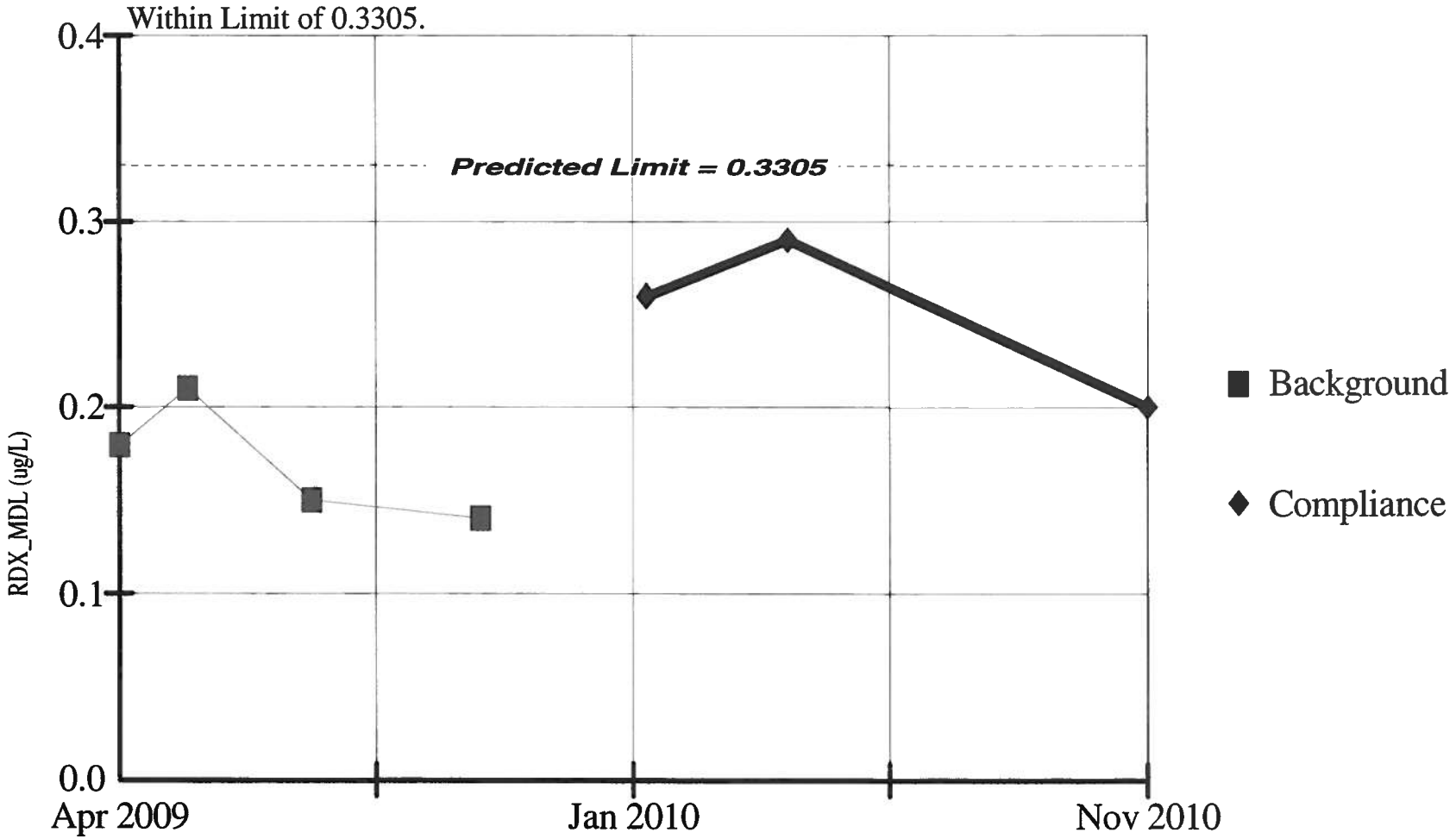
Trend not significant at 95% confidence level (two tailed). Critical value = 15.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:26 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-129A

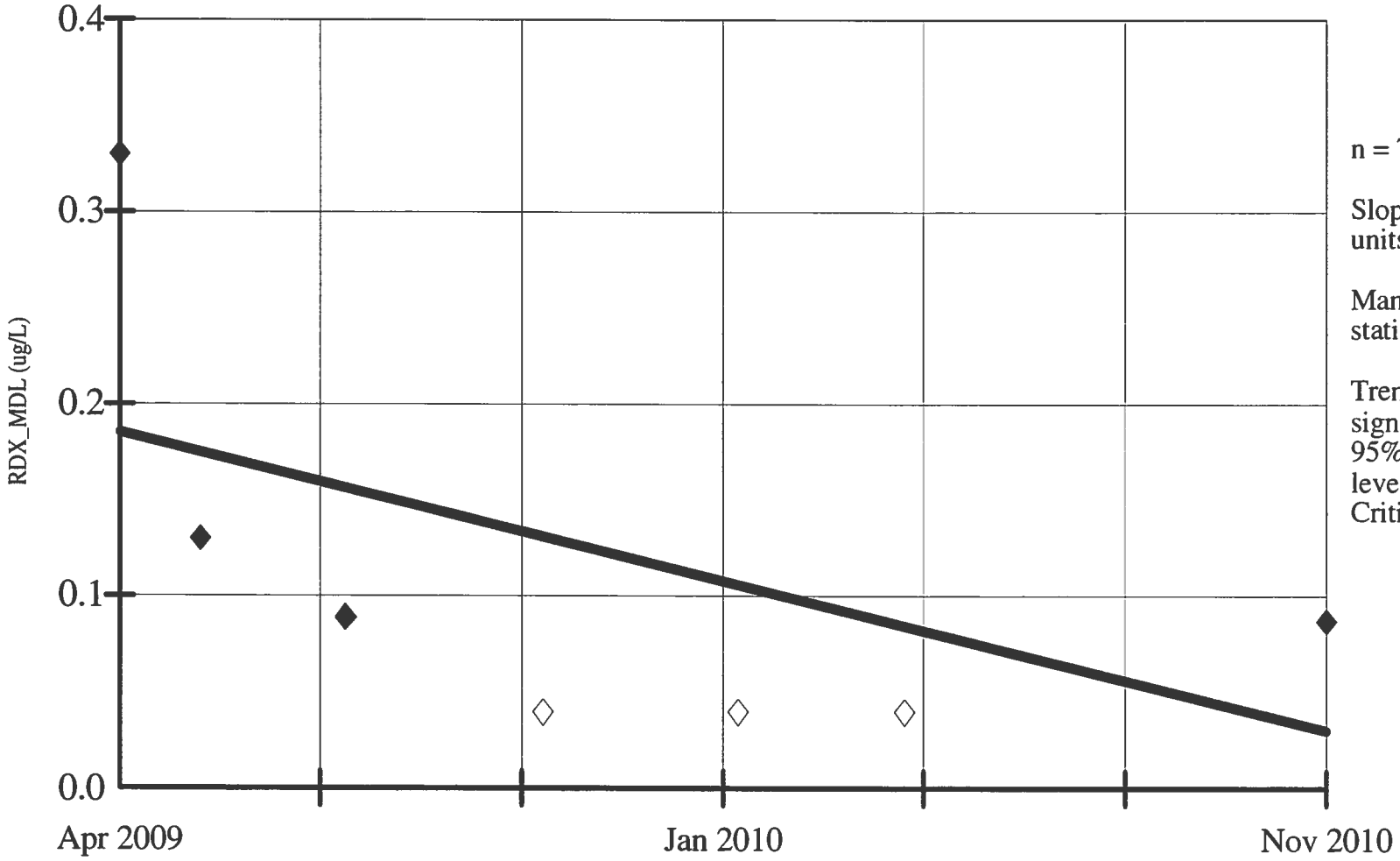


Background Data Summary: Mean=0.17, Std. Dev=0.032, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9411, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:07 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-129B



n = 7.

Slope = -0.097 units per year.

Mann Kendall statistic = -12.

Trend not significant at 95% confidence level (two tailed). Critical value = -15.

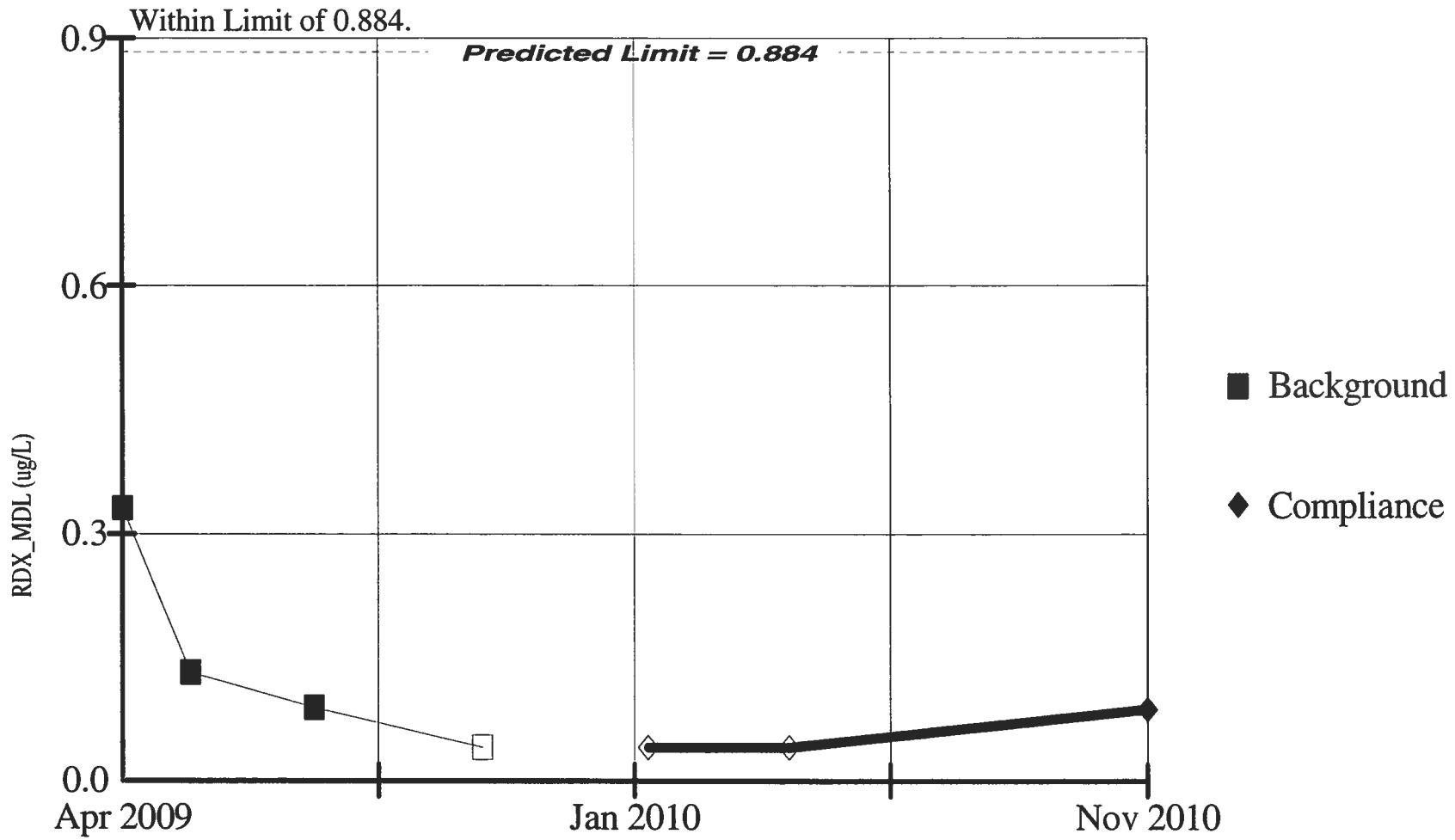
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:26 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-129B

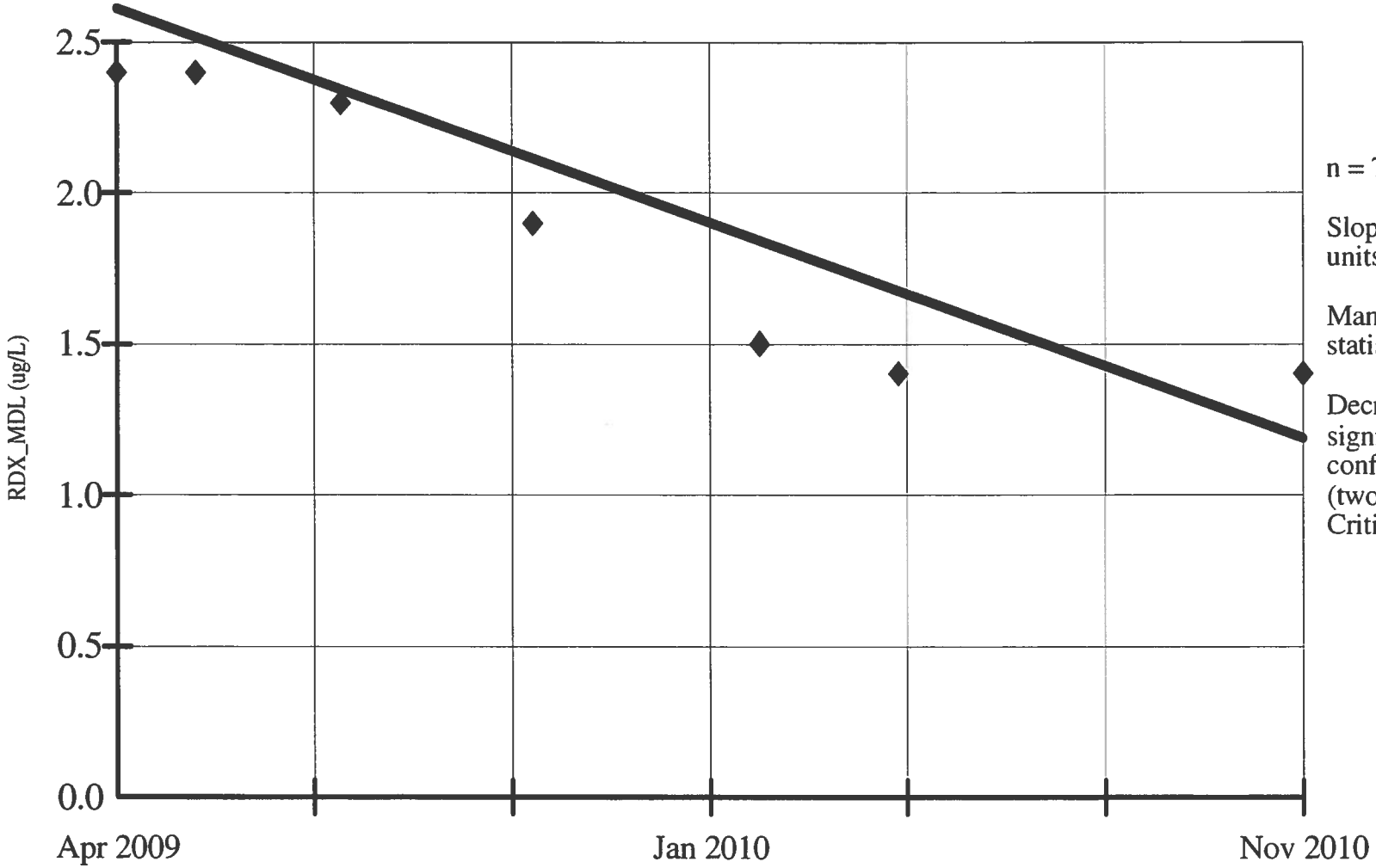


Background Data Summary: (after Cohen's adjustment) Mean=0.132, Std. Dev=0.148, 25% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8757, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit. Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:07 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-130A



n = 7.

Slope = -0.895 units per year.

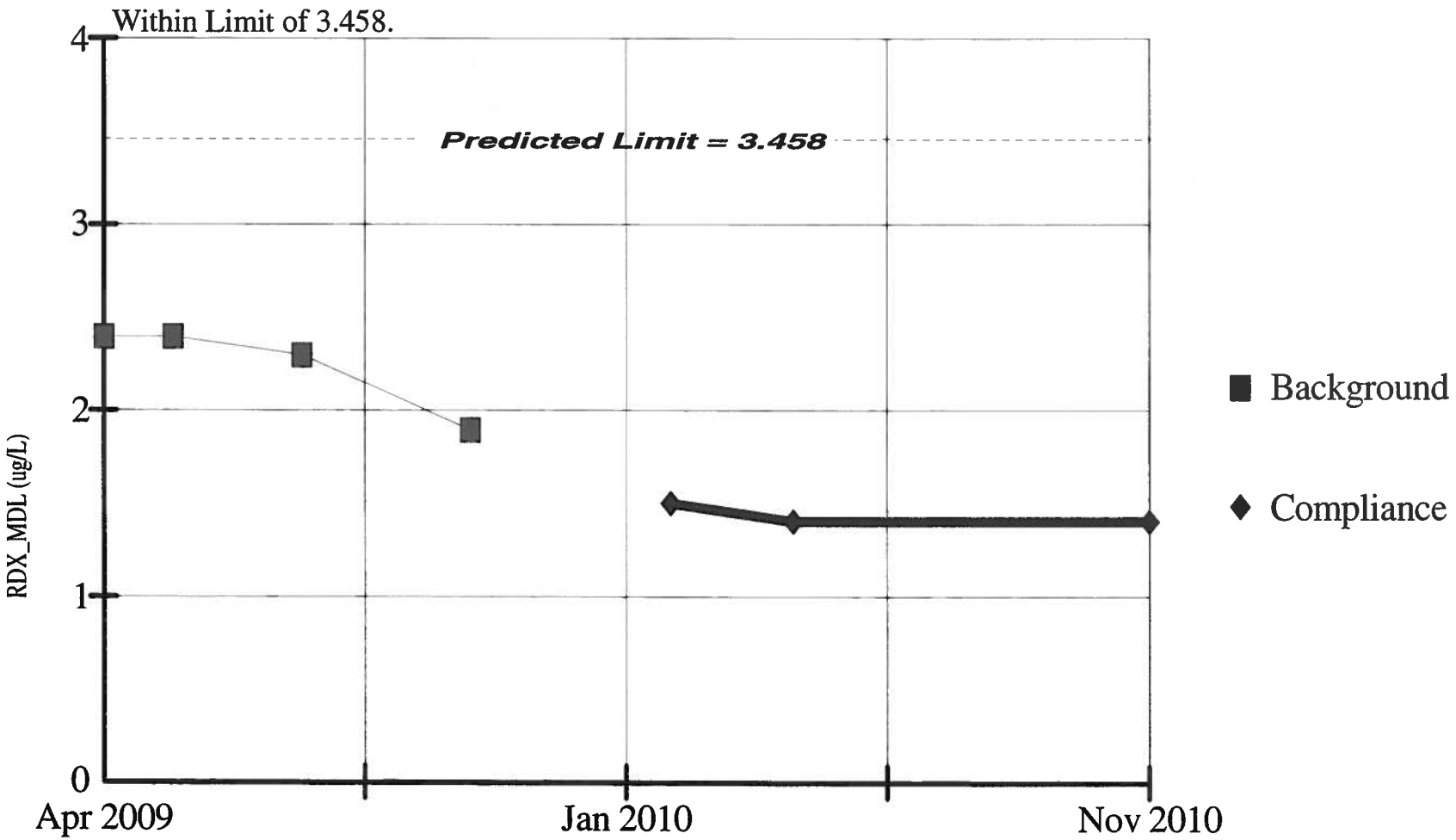
Mann Kendall statistic = -19.

Decreasing trend significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 12:26 PM Client: ECC View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-130A

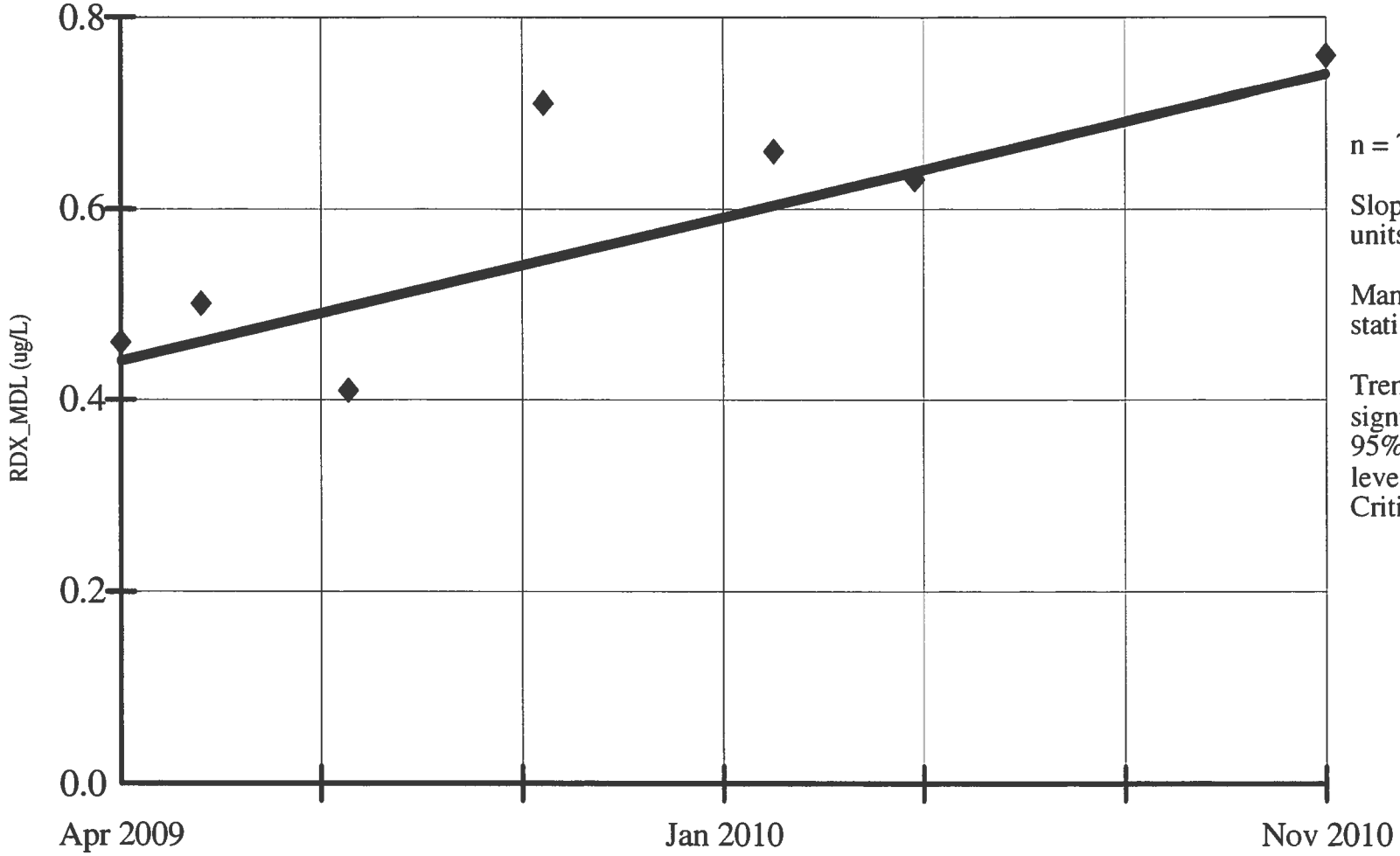


Background Data Summary: Mean=2.25, Std. Dev=0.238, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.7639, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:08 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-130B



n = 7.

Slope = 0.188 units per year.

Mann Kendall statistic = 11.

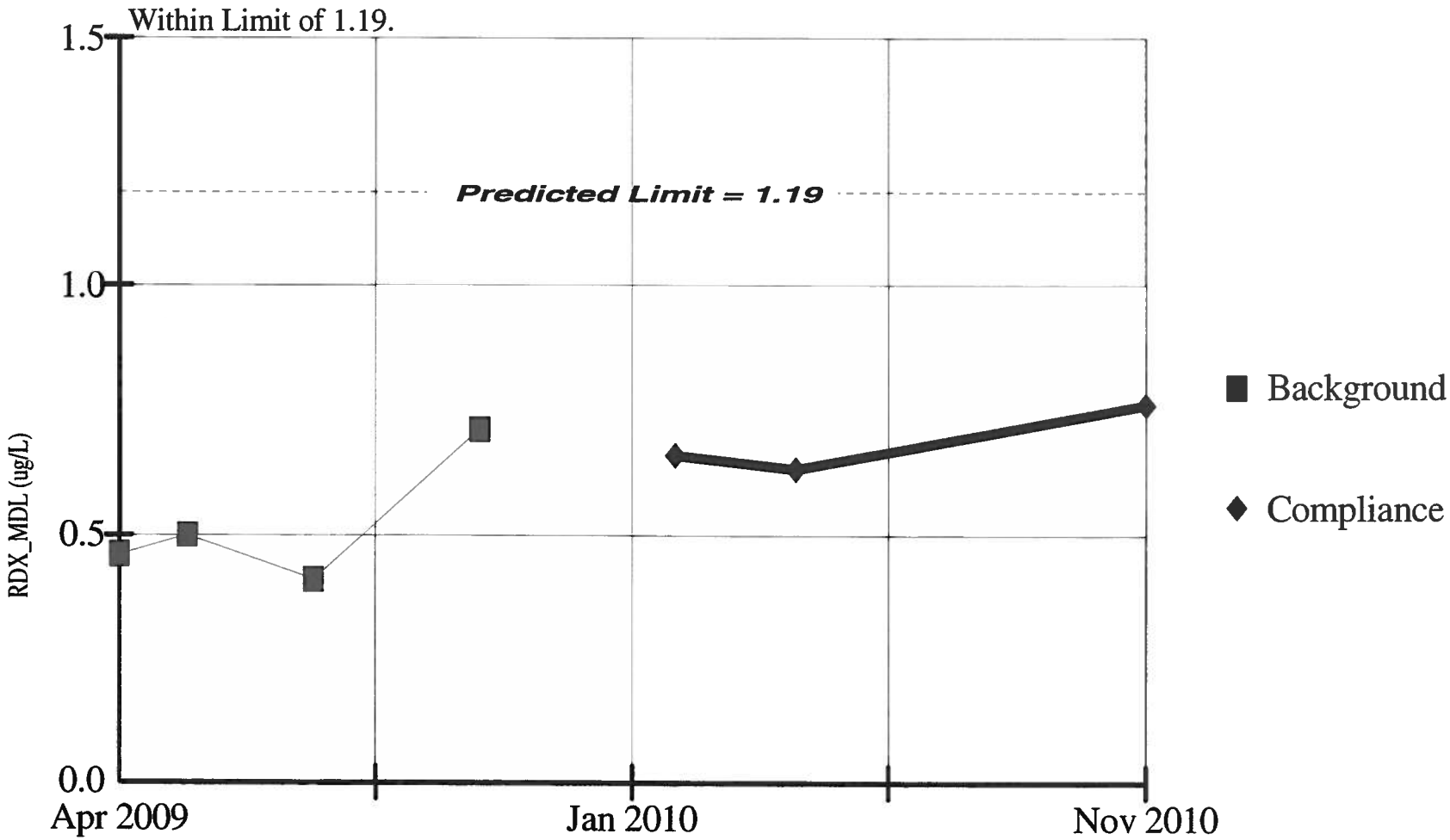
Trend not significant at 95% confidence level (two tailed). Critical value = 15.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:26 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-130B

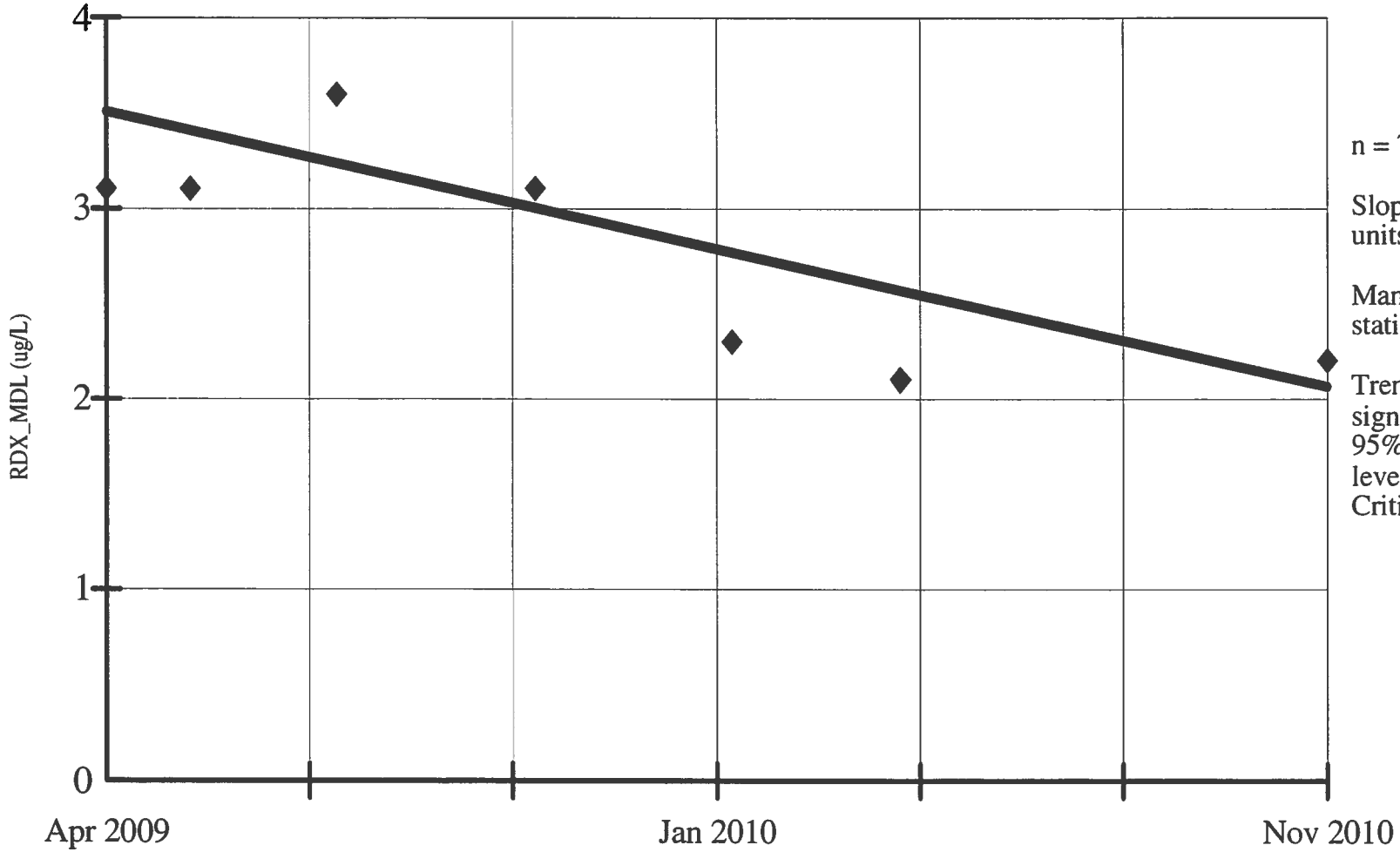


Background Data Summary: Mean=0.52, Std. Dev=0.132, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8681, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:08 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-131A



n = 7.

Slope = -0.913 units per year.

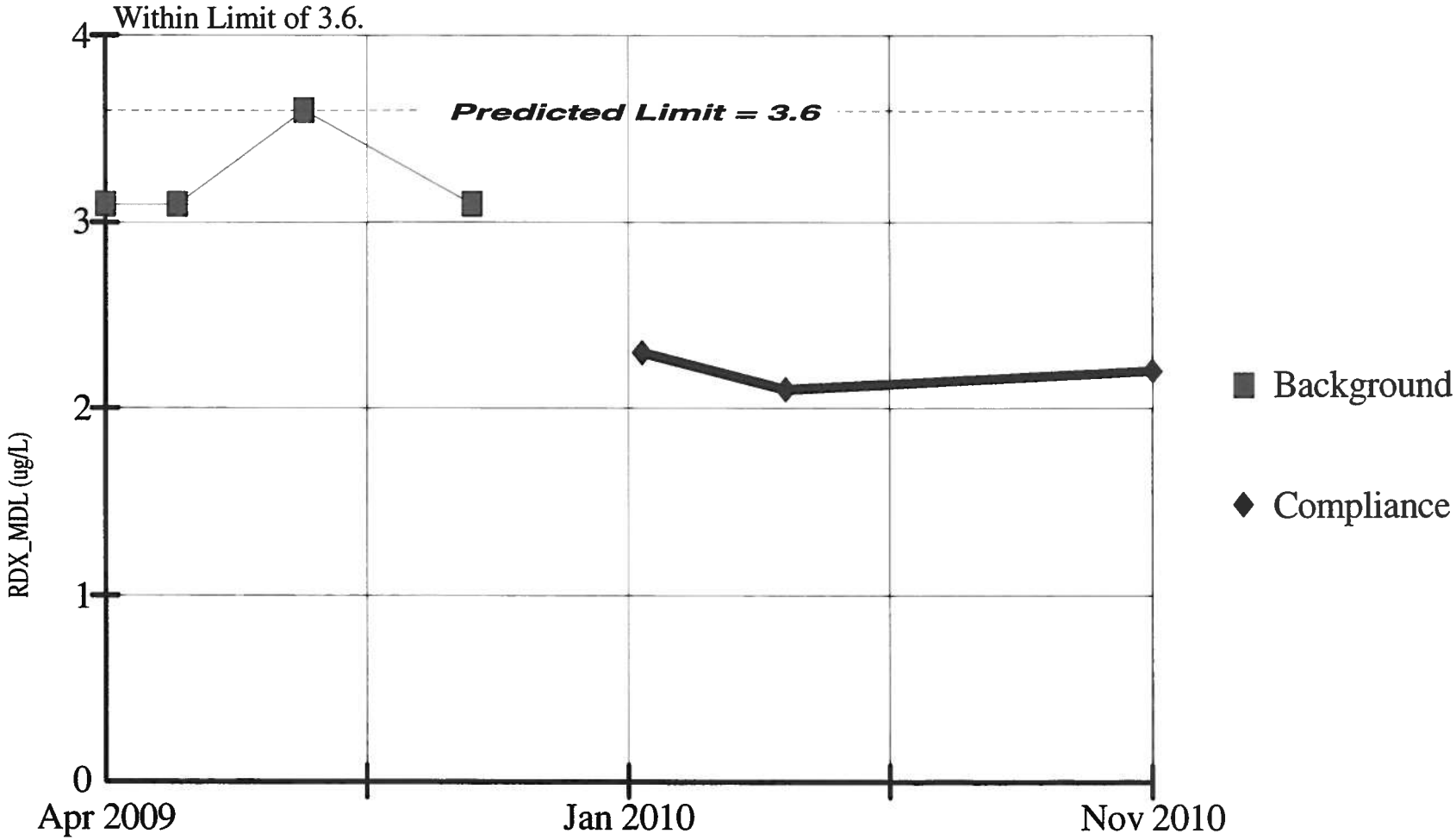
Mann Kendall statistic = -12.

Trend not significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 12:27 PM Client: ECC View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-131A

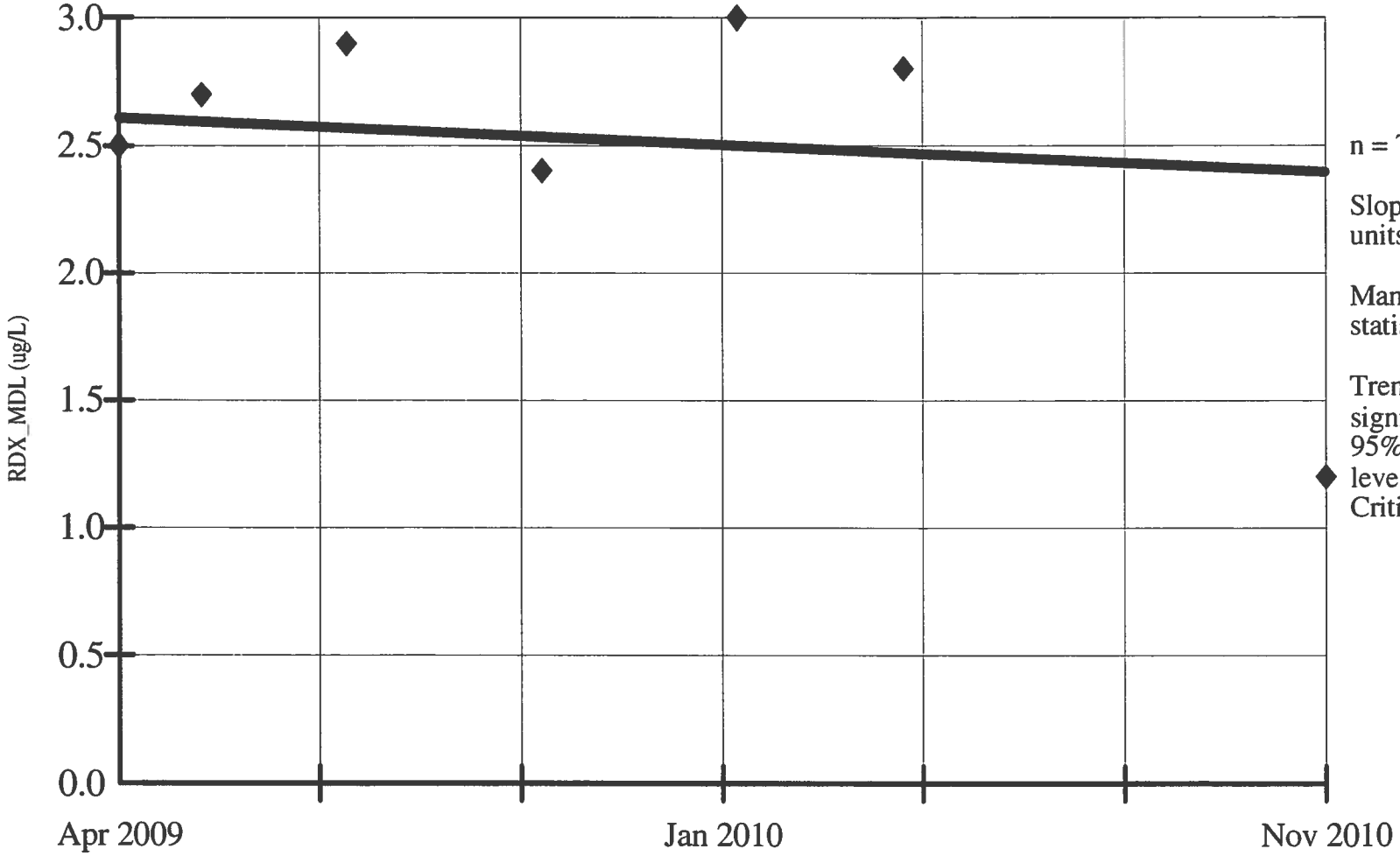


4 background obs. Testwise alpha = 0.2 Most recent point compared to limit.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit after ladder of powers failed to adequately normalize data.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:08 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-131B



n = 7.

Slope = -0.136 units per year.

Mann Kendall statistic = -1.

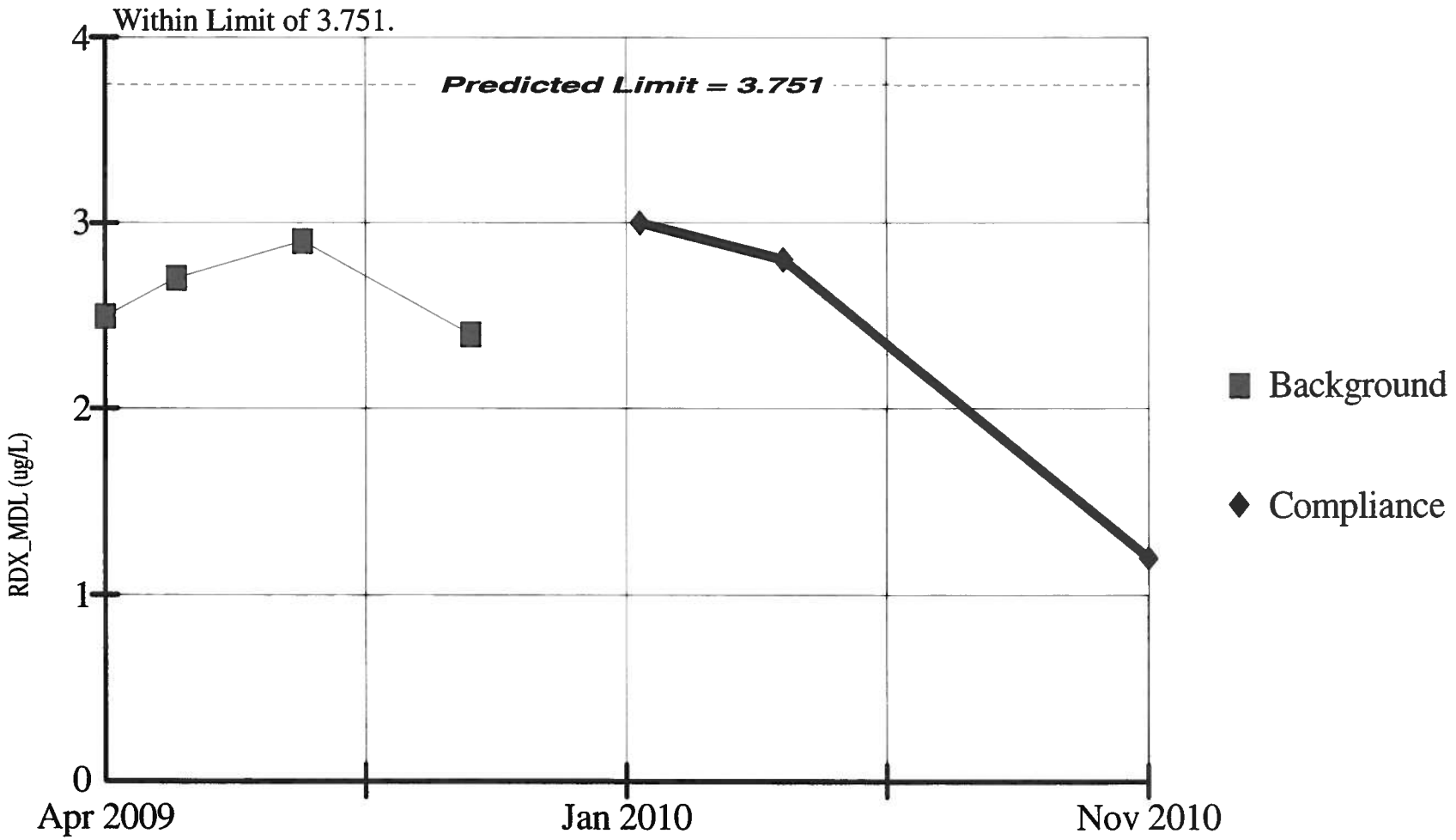
Trend not significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:27 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-131B

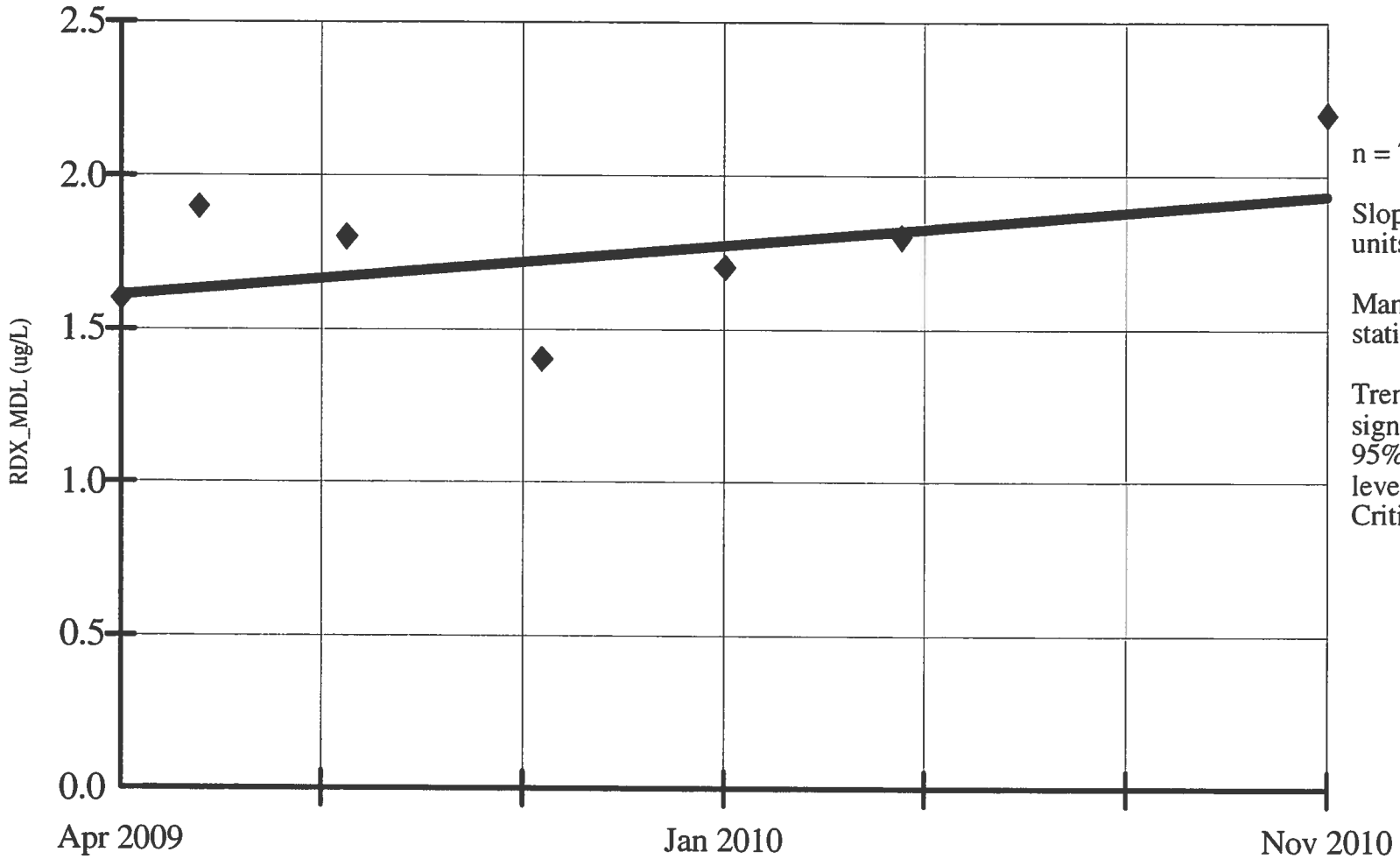


Background Data Summary: Mean=2.625, Std. Dev=0.222, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9643, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:08 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-132A



n = 7.

Slope = 0.202 units per year.

Mann Kendall statistic = 6.

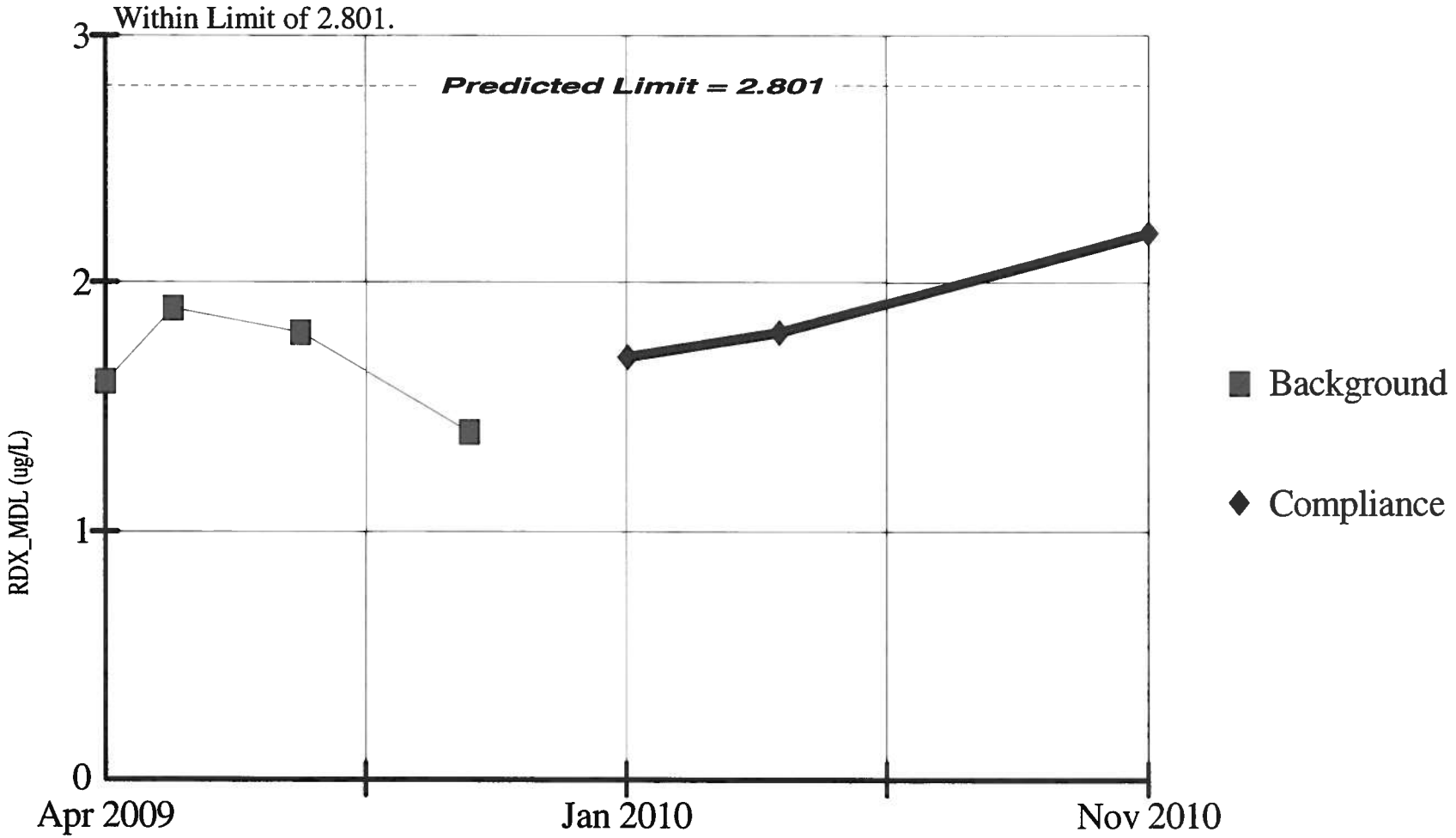
Trend not significant at 95% confidence level (two tailed). Critical value = 15.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:27 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-132A

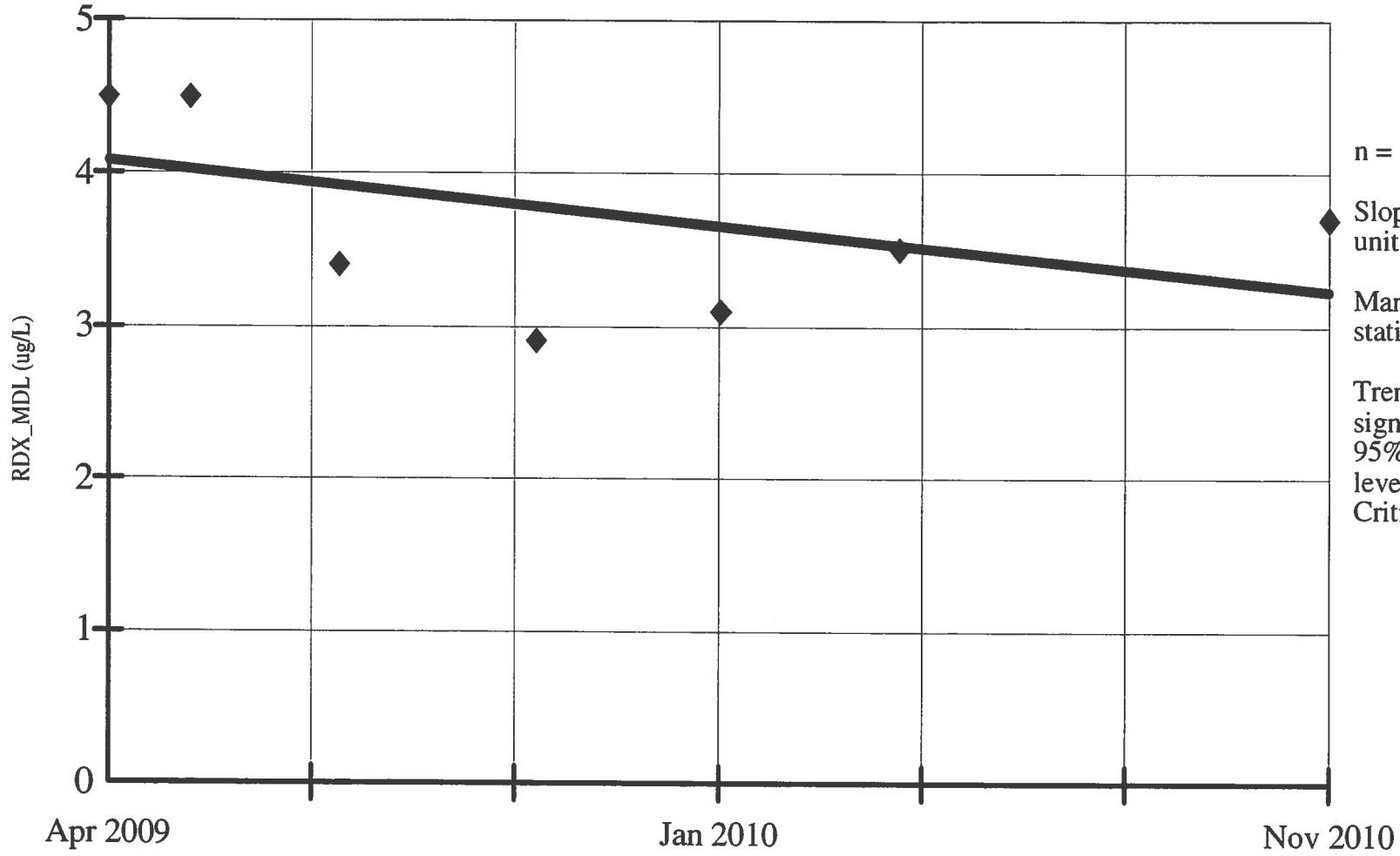


Background Data Summary: Mean=1.675, Std. Dev=0.222, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.9643, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:08 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-132B



n = 7.

Slope = -0.538 units per year.

Mann Kendall statistic = -4.

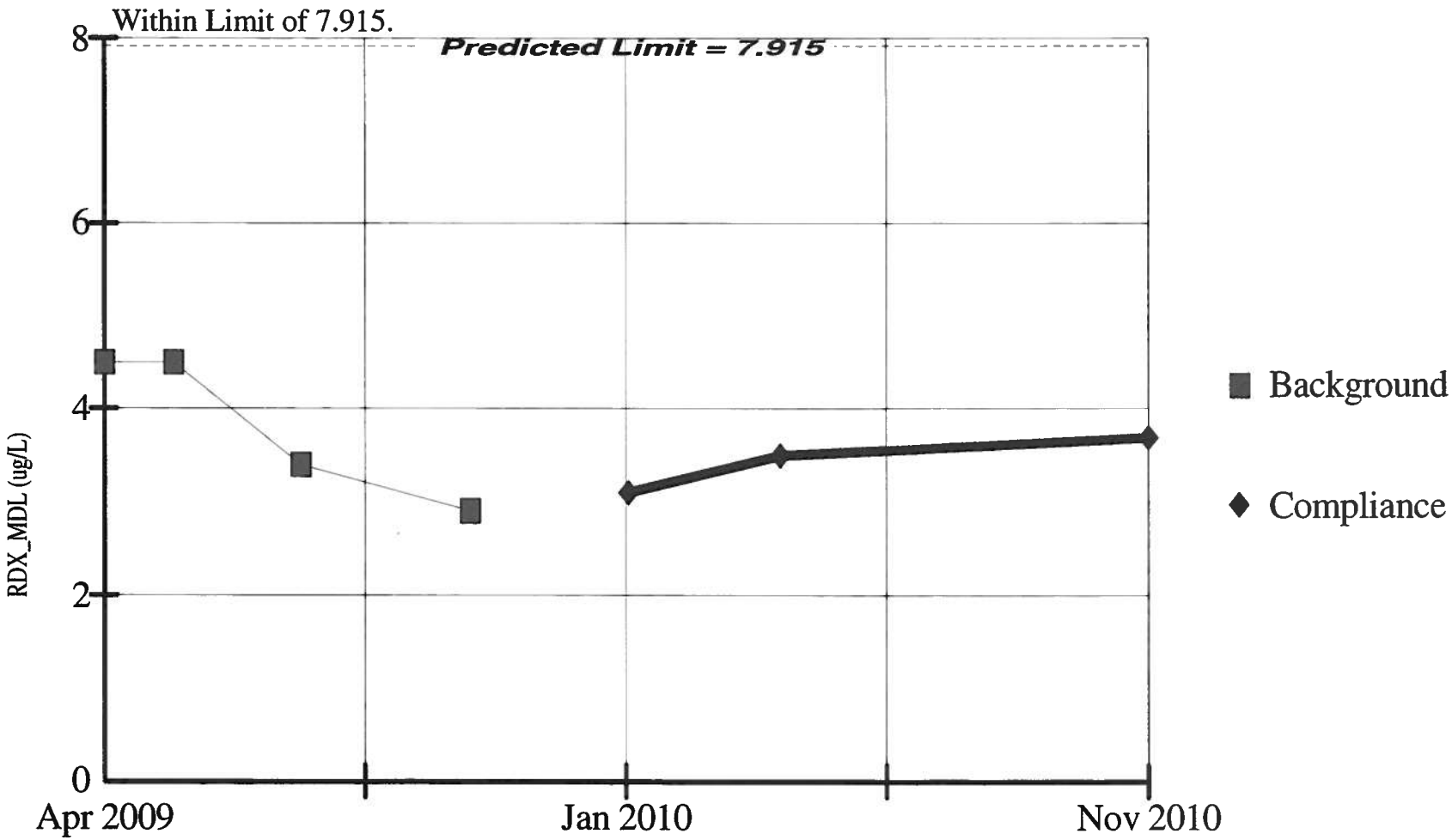
Trend not significant at 95% confidence level (two tailed). Critical value = -15.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:27 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-132B

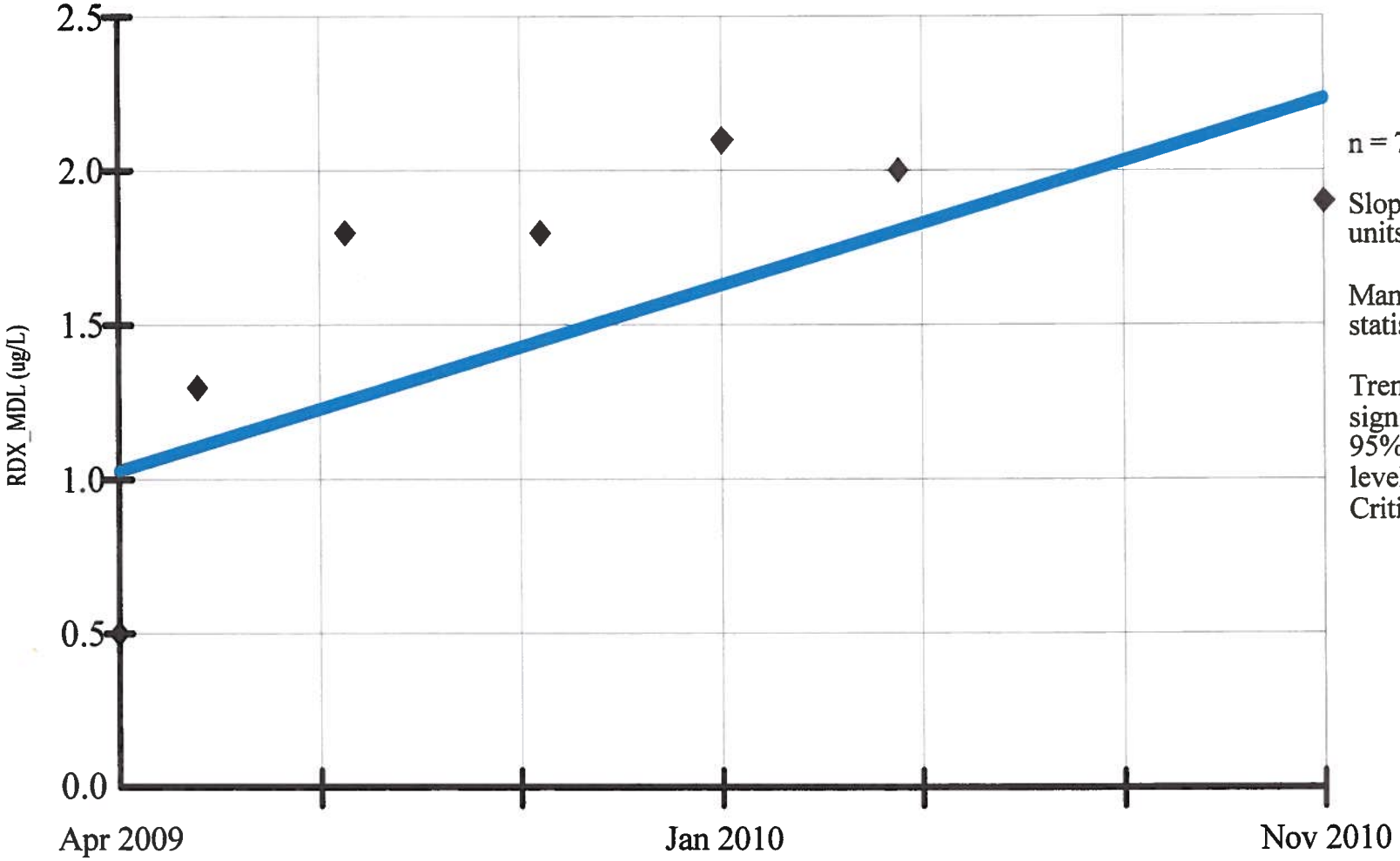


Background Data Summary: Mean=3.825, Std. Dev=0.806, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8465, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:08 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
MW-132D



n = 7.

Slope = 0.756 units per year.

Mann Kendall statistic = 14.

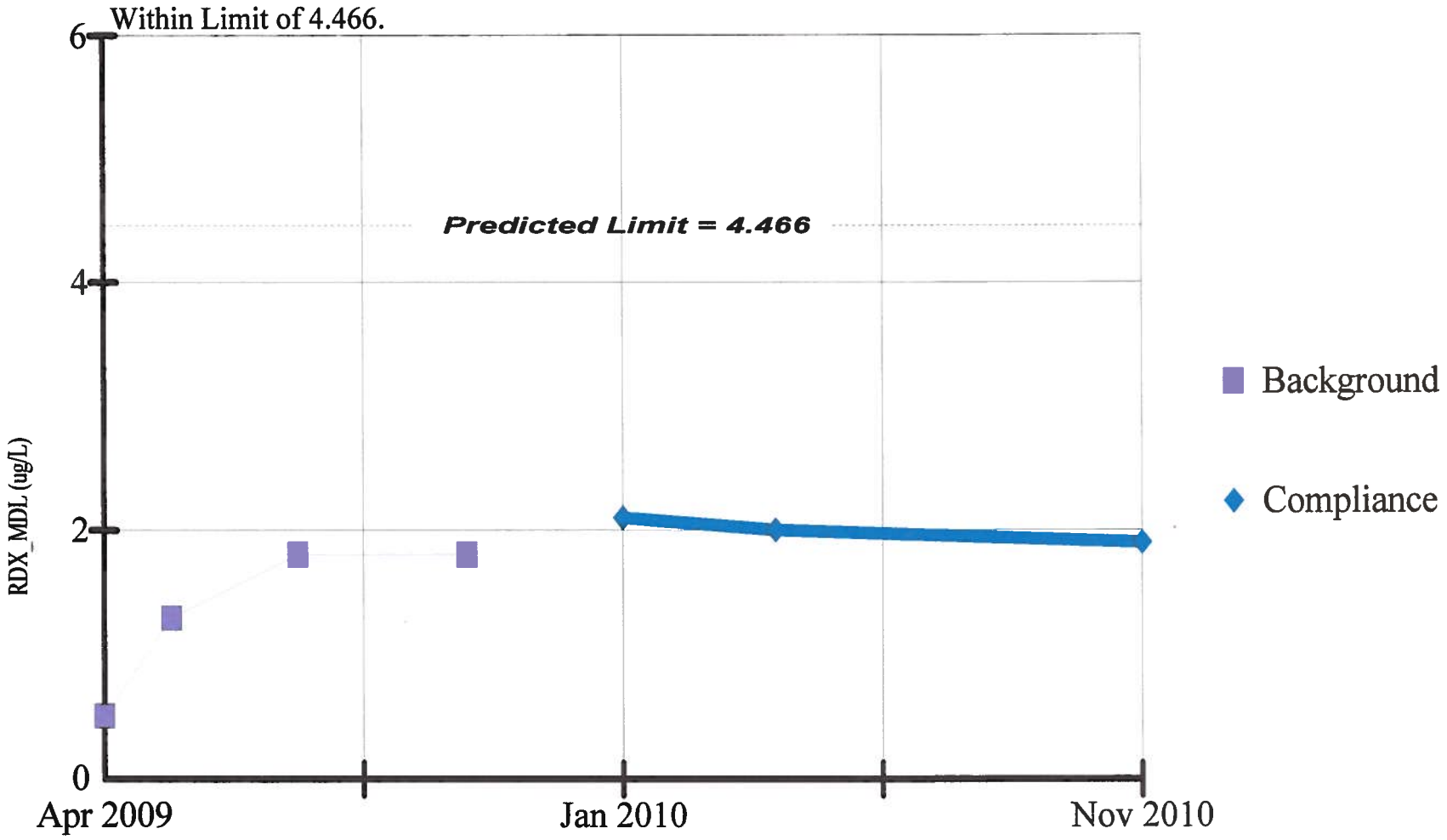
Trend not significant at 95% confidence level (two tailed). Critical value = 15.

Constituent: RDX_MDL (ug/L)
Date: 1/30/11, 5:28 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
MW-132D

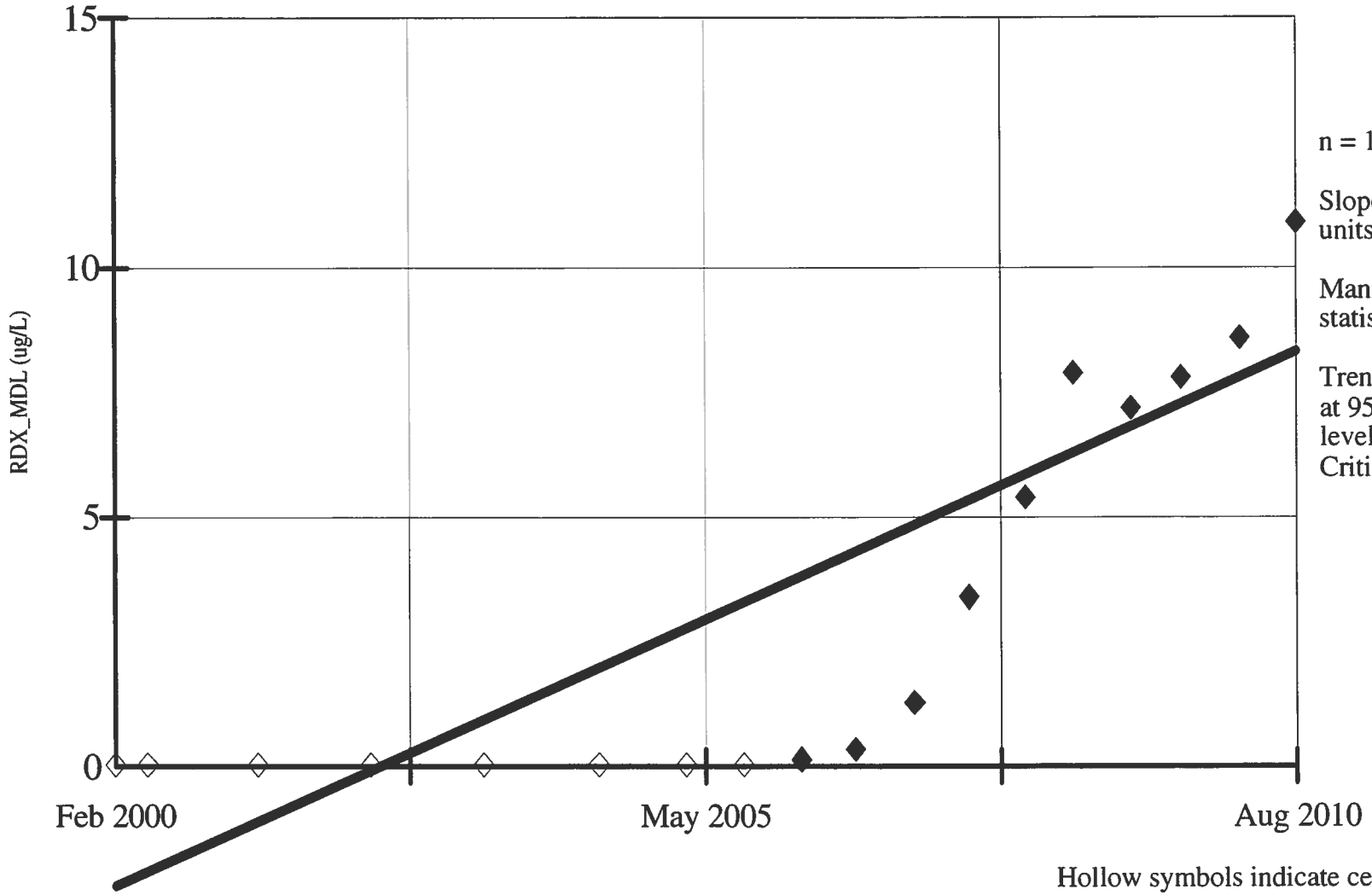


Background Data Summary: Mean=1.35, Std. Dev=0.614, 0% nds, 4 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.8451, W Quantile = 0.748 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/30/11, 8:08 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
WSW-053-B



n = 18.

Slope = 1.024 units per year.

Mann Kendall statistic = 121.

Trend significant at 95% confidence level (two tailed). Critical value = 53.

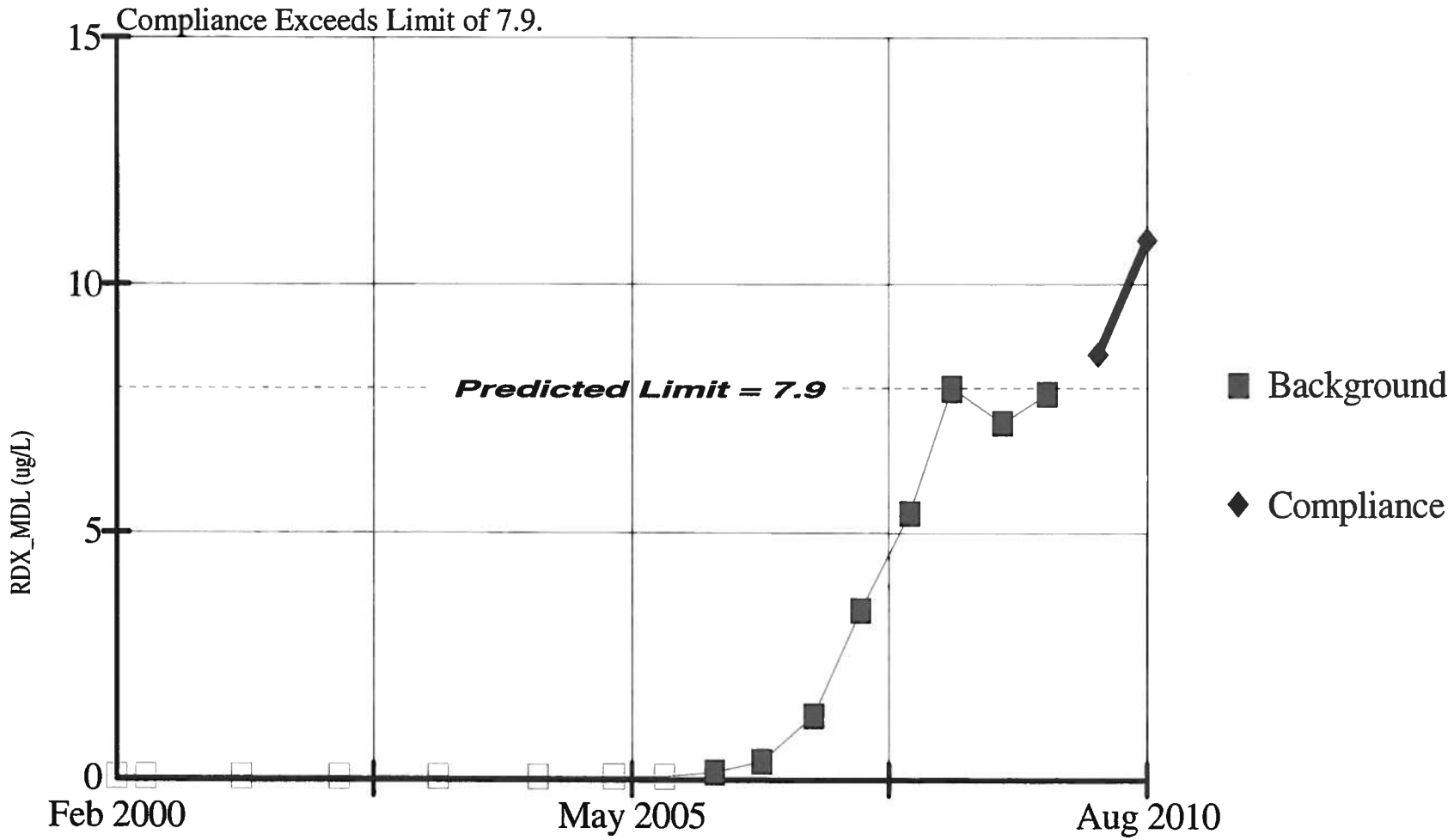
Hollow symbols indicate censored values.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:31 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

NON-PARAMETRIC INTRA-WELL PREDICTION LIMIT
WSW-053-B

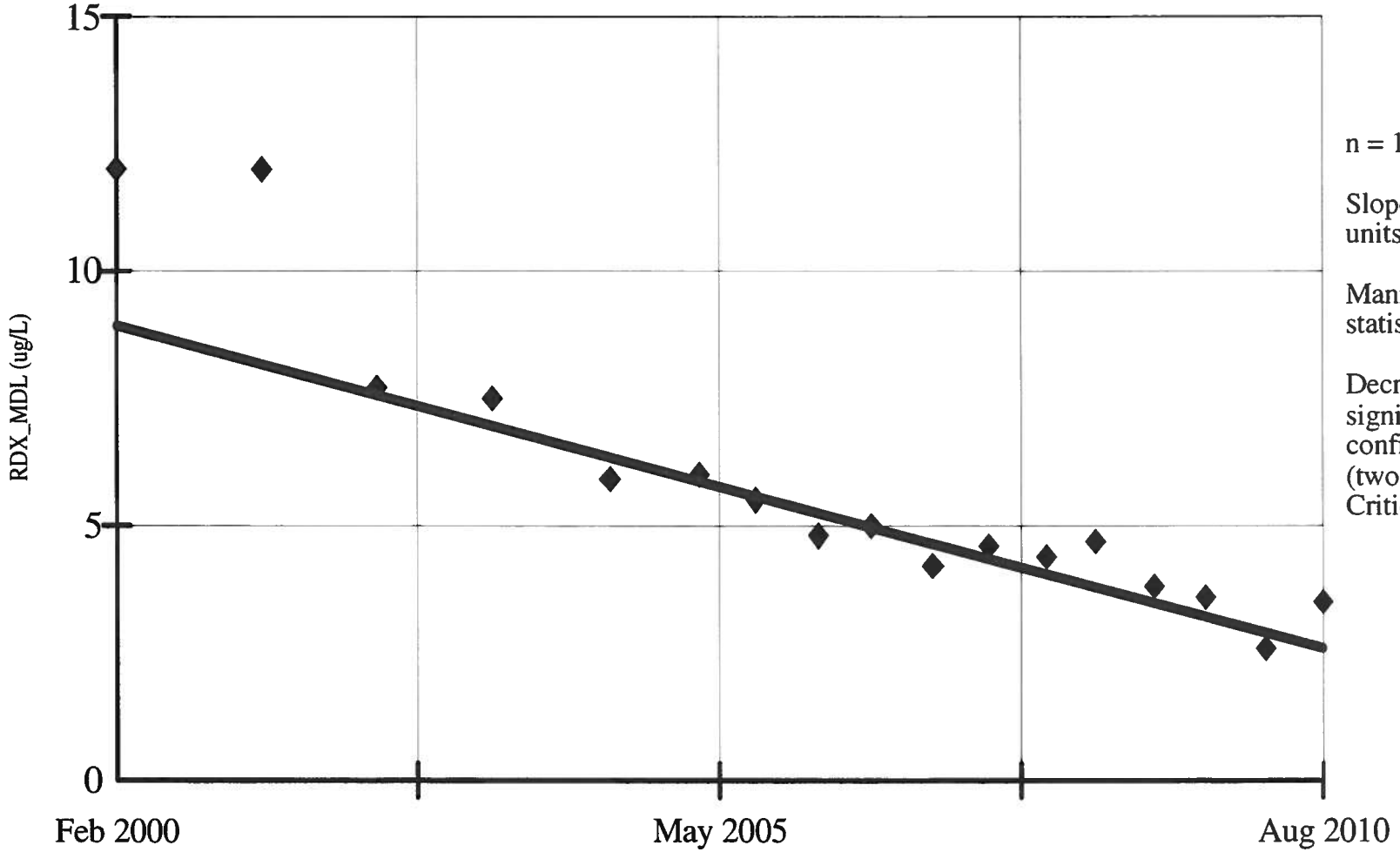


16 background obs. Testwise alpha = 0.05882 Most recent point compared to limit. Hollow symbols indicate censored values.
Non-P test used in lieu of Parametric Intra-Well Prediction Limit after ladder of powers failed to adequately normalize data.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:12 PM Client: ECC View: _Batch_

SEN'S SLOPE ESTIMATOR
WSW-054-B



n = 17.

Slope = -0.607 units per year.

Mann Kendall statistic = -119.

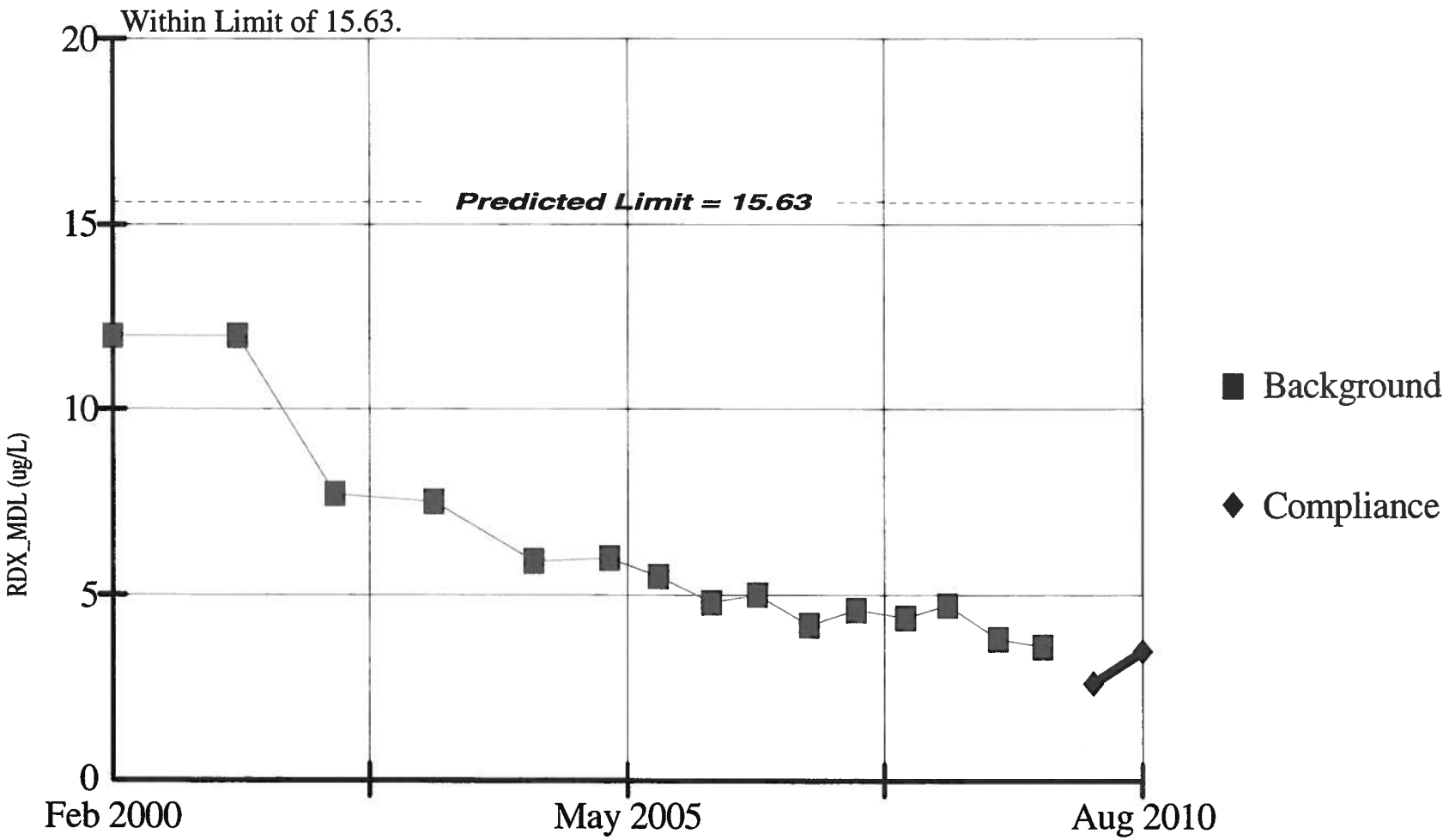
Decreasing trend significant at 95% confidence level (two tailed). Critical value = -49.

Constituent: RDX_MDL (ug/L)
Date: 1/28/11, 12:32 PM

Facility: Mead FNOP
Client: ECC

Data File: Mead 2010 Annual Sanitas 2
View: _Batch_

PARAMETRIC INTRA-WELL PREDICTION LIMIT
WSW-054-B



Background Data Summary: (based on ln(x) transformed data) Mean=1.739, Std. Dev=0.373, 0% nds, 15 obs. Normality test: Shapiro Wilk. W Statistic for background data = 0.887, W Quantile = 0.881 at alpha = 0.05. Testwise alpha = 0.01 Most recent point compared to limit.

Constituent: RDX_MDL (ug/L) Facility: Mead FNOP Data File: Mead 2010 Annual Sanitas 2

Date: 1/28/11, 1:12 PM Client: ECC View: _Batch_

Appendix C

Historical Data Spreadsheet of TCE and RDX for Monitoring Wells, Water Supply Wells and Surface Water Locations (on CD)

Appendix D

Summary of Results from the 2010 Monitoring Well Sampling Events

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives

Location	Zone Designation	Event	2,4-DNT	2A-DNT	4A-DNT	RDX	TNB	TNT
MW-08A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-08B	Shallow	First Quarter 2010	ND	ND	0.057 J	1.1	ND	ND
MW-100A	Intermediate	First Quarter 2010	ND	ND	ND	0.17 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.059 J	ND	ND
MW-100B	Shallow	First Quarter 2010	ND	ND	ND	0.089 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.087 J	ND	ND
MW-100D	Deep	First Quarter 2010	ND	ND	ND	0.093 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.069 J	ND	ND
MW-101A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-101B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-101D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-102A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-102A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-102B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-102D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	0.21 J	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-103D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-104A	Intermediate	First Quarter 2010	ND	ND	0.056 J	2.8	ND	ND
		Third Quarter 2010	ND	ND	ND	4.6	ND	ND
MW-104B	Shallow	First Quarter 2010	ND	ND	0.070 J	2.5	ND	ND
		Third Quarter 2010	ND	ND	0.046 J	8.4	ND	ND
MW-104D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-104O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-105A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-105B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-105O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106A	Intermediate	First Quarter 2010	ND	ND	ND	0.039 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-106A	Intermediate	Second Quarter 2010	ND	ND	ND	0.18 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.12 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106D	Deep	First Quarter 2010	ND	ND	ND	0.11 J	ND	ND
		Second Quarter 2010	ND	ND	ND	0.11 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.095 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107A	Intermediate	First Quarter 2010	ND	ND	ND	0.12 J	ND	ND
		Second Quarter 2010	ND	ND	ND	0.055 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.088 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-107B	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-108D	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-109A	Intermediate	First Quarter 2010	ND	ND	0.085 J	2.5	ND	ND
		Third Quarter 2010	ND	ND	0.090 J	1.7	ND	ND
MW-109B	Intermediate	First Quarter 2010	ND	ND	0.089 J	2.0	ND	ND
		Third Quarter 2010	ND	ND	0.090 J	1.7	ND	ND
MW-109O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-10A	Intermediate	First Quarter 2010	ND	0.056 J	0.44	0.12 J	ND	ND
MW-10B	Shallow	First Quarter 2010	ND	0.13 J	0.41	0.12 J	0.044 J	0.20
MW-11	Shallow	First Quarter 2010	ND	ND	ND	4.4	ND	ND
MW-110A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-110B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-110B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-110D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-111A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-111B	Shallow	First Quarter 2010	ND	ND	ND	0.12 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.069 J	ND	ND
MW-111O	Shallow	First Quarter 2010	ND	ND	ND	ND	0.015 J	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-114B	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-115D	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-116A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-116B	Shallow	First Quarter 2010	ND	ND	0.042 J	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-116D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-117B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-118A	Intermediate	First Quarter 2010	ND	ND	ND	0.23 J	ND	ND
		Second Quarter 2010	ND	ND	0.044 J	0.27 J	ND	ND
		Third Quarter 2010	ND	ND	0.051 J	0.37	ND	ND
		Fourth Quarter 2010	ND	ND	0.049 J	0.29 J	ND	ND
MW-118B	Shallow	First Quarter 2010	ND	ND	0.12 J	0.81	ND	ND
		Second Quarter 2010	ND	ND	0.13 J	0.84	ND	ND
		Third Quarter 2010	ND	ND	0.16 J	0.89	ND	ND
		Fourth Quarter 2010	ND	ND	0.15 J	0.86	ND	ND
MW-121B	Shallow	First Quarter 2010	ND	ND	1.4	4.6	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-121B	Shallow	Third Quarter 2010	ND	ND	0.48	0.83	ND	ND
MW-121E	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-122A	Intermediate	First Quarter 2010	ND	ND	0.064 J	ND	ND	ND
		Third Quarter 2010	ND	ND	0.052 J	ND	ND	ND
MW-122B	Intermediate	First Quarter 2010	ND	ND	0.57 J	1.3	ND	ND
		Third Quarter 2010	ND	ND	0.50 J	0.92	ND	ND
MW-123A	Intermediate	First Quarter 2010	ND	0.039 J	0.11 J	ND	ND	ND
		Third Quarter 2010	ND	ND	0.064 J	ND	ND	ND
MW-123B	Shallow	First Quarter 2010	ND	0.066 J	0.75	1.3	ND	ND
		Third Quarter 2010	ND	0.049 J	0.44	0.66	ND	ND
MW-128A	Intermediate	First Quarter 2010	ND	ND	0.72	2.7	ND	ND
		Second Quarter 2010	ND	ND	0.70	2.5	ND	ND
		Fourth Quarter 2010	ND	ND	0.67	2.0	ND	ND
MW-128B	Intermediate	First Quarter 2010	ND	0.034 J	1.5	5.2	ND	ND
		Second Quarter 2010	ND	0.030 J	1.4	4.6	ND	ND
		Fourth Quarter 2010	ND	0.020 J	1.2	3.2	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-128D	Deep	First Quarter 2010	ND	0.027 J	0.11 J	0.25 J	ND	ND
		Second Quarter 2010	ND	ND	0.12 J	0.28 J	ND	ND
		Fourth Quarter 2010	ND	ND	0.10 J	0.27 J	ND	ND
MW-129A	Intermediate	First Quarter 2010	ND	ND	0.067 J	0.26 J	ND	ND
		Second Quarter 2010	ND	ND	0.062 J	0.29 J	ND	ND
		Fourth Quarter 2010	ND	ND	0.033 J	0.20	ND	ND
MW-129B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.060 J	ND	ND
MW-129D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-130A	Intermediate	First Quarter 2010	ND	ND	0.13 J	1.5	ND	ND
		Second Quarter 2010	ND	ND	0.12 J	1.4	ND	ND
		Fourth Quarter 2010	ND	ND	0.11 J	1.3	ND	ND
MW-130B	Shallow	First Quarter 2010	ND	ND	0.049 J	0.66	ND	ND
		Second Quarter 2010	ND	ND	ND	0.63	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-130B	Shallow	Fourth Quarter 2010	ND	ND	0.064 J	0.72	ND	ND
MW-130D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-131A	Intermediate	First Quarter 2010	ND	ND	0.43	2.3	ND	ND
		Second Quarter 2010	ND	ND	0.38	2.1	ND	ND
		Fourth Quarter 2010	ND	ND	0.44	2.2	ND	ND
MW-131B	Shallow	First Quarter 2010	ND	ND	0.50	3.0	ND	ND
		Second Quarter 2010	ND	ND	0.51	2.8	ND	ND
		Fourth Quarter 2010	ND	ND	0.26	1.2	ND	ND
MW-131D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-132A	Intermediate	First Quarter 2010	ND	ND	0.44	1.7	ND	ND
		Second Quarter 2010	ND	ND	0.45	1.8	ND	ND
		Fourth Quarter 2010	ND	ND	0.59	2.2	ND	ND
MW-132B	Shallow	First Quarter 2010	ND	ND	0.72	3.1	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-132B	Shallow	Second Quarter 2010	ND	0.018 J	0.78	3.3	ND	ND
		Fourth Quarter 2010	ND	ND	0.83	3.7	ND	ND
MW-132D	Deep	First Quarter 2010	ND	ND	0.52	2.1	ND	ND
		Second Quarter 2010	ND	ND	0.50	2.0	ND	ND
		Fourth Quarter 2010	ND	ND	0.54	1.8	ND	ND
MW-18A	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-18B	Intermediate	First Quarter 2010	0.12 J	0.055 J	0.80 J	0.30 J	0.17 J	2.7 J
MW-18C	Shallow	First Quarter 2010	ND	ND	ND	4.0	ND	ND
MW-20A	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-20B	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-20C	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-21A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-21B	Shallow	First Quarter 2010	0.11 J	0.50 J	9.8	9.5	0.078 J	ND
		Third Quarter 2010	0.074 J	0.30 J	9.5	9.8	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-21D	Deep	First Quarter 2010	0.078 J	ND	0.21 J	0.32 J	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-24A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	0.058 J	ND	ND	ND
MW-24B	Shallow	First Quarter 2010	0.055 J	0.099 J	2.6	5.0	0.11 J	ND
		Third Quarter 2010	ND	0.16 J	3.2	8.9	0.073 J	ND
MW-25A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-25B	Shallow	First Quarter 2010	ND	ND	0.043 J	ND	ND	ND
MW-25D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-35A	Intermediate	First Quarter 2010	ND	ND	ND	0.21 J	ND	ND
		Second Quarter 2010	ND	ND	ND	0.22 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.20 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.20	ND	ND
MW-35B	Shallow	First Quarter 2010	ND	ND	ND	0.20 J	ND	ND
		Second Quarter 2010	ND	ND	ND	0.16 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.096 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-35B	Shallow	Fourth Quarter 2010	ND	ND	ND	0.14 J	ND	ND
MW-35D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-38A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-38D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-41B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-42A	Intermediate	First Quarter 2010	ND	0.044 J	0.098 J	3.9	ND	ND
MW-42B	Shallow	First Quarter 2010	ND	ND	ND	0.23 J	ND	ND
MW-42D	Deep	First Quarter 2010	ND	ND	0.054 J	3.1	ND	ND
MW-43A	Intermediate	First Quarter 2010	ND	ND	0.42 J	0.24 J	0.37 J	ND
MW-43B	Shallow	First Quarter 2010	ND	0.50	0.20	2.3	ND	ND
MW-43D	Deep	First Quarter 2010	ND	ND	0.048 J	ND	ND	ND
MW-44A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-44B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-44D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-46A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-46B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-46D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-54A	Intermediate	First Quarter 2010	ND	ND	0.096 J	1.6 J	0.095 J	ND
MW-54B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-55A	Intermediate	First Quarter 2010	ND	ND	0.032 J	0.43	ND	ND
		Third Quarter 2010	ND	0.27 J	ND	0.26	0.030 J	ND
MW-55B	Shallow	First Quarter 2010	0.032 J	0.040 J	0.055 J	0.058 J	0.020 J	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-55B	Shallow	Third Quarter 2010	ND	ND	ND	0.043 J	ND	ND
MW-61A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.46	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-61B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-61D	Deep	First Quarter 2010	ND	ND	ND	ND	0.022 J	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-62D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-64B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-81A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-81B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-81D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-82B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-83A	Intermediate	First Quarter 2010	ND	ND	ND	0.30	ND	ND
		Second Quarter 2010	ND	ND	ND	0.24	ND	ND
		Third Quarter 2010	ND	ND	ND	0.16 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.092 J	ND	ND
MW-83B	Shallow	First Quarter 2010	ND	ND	ND	0.051 J	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-83D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	0.041 J	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-84A	Intermediate	First Quarter 2010	ND	ND	ND	0.29	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-84A	Intermediate	Second Quarter 2010	ND	ND	ND	0.25	ND	ND
		Third Quarter 2010	ND	ND	ND	0.18 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.22	ND	ND
MW-84B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-84D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-85A	Intermediate	First Quarter 2010	ND	ND	ND	0.94	ND	ND
		Second Quarter 2010	ND	ND	ND	0.83	ND	ND
		Third Quarter 2010	ND	ND	ND	0.88	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.68	ND	ND
MW-85B	Shallow	First Quarter 2010	ND	ND	0.053 J	1.3	ND	ND
		Second Quarter 2010	ND	ND	0.060 J	1.2	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-85B	Shallow	Third Quarter 2010	ND	ND	0.071 J	1.4	ND	ND
		Fourth Quarter 2010	ND	ND	0.11 J	1.4	ND	ND
MW-85D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-86A	Intermediate	First Quarter 2010	ND	ND	ND	0.46	ND	ND
		Third Quarter 2010	ND	ND	ND	0.41	ND	ND
MW-86B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-86D	Deep	First Quarter 2010	ND	ND	ND	1.3	ND	ND
		Third Quarter 2010	ND	ND	ND	1.3	ND	ND
MW-87A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-87B	Shallow	First Quarter 2010	ND	ND	ND	0.21	ND	ND
MW-87D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-88A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-88B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-88D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-90A	Intermediate	First Quarter 2010	ND	ND	ND	0.057 J	ND	ND
		Third Quarter 2010	ND	ND	0.046 J	ND	ND	ND
MW-90B	Shallow	First Quarter 2010	ND	0.024 J	ND	0.20 J	ND	ND
		Third Quarter 2010	ND	ND	ND	0.26	ND	ND
MW-90D	Deep	First Quarter 2010	ND	0.23 J	0.075 J	0.079 J	ND	ND
		Third Quarter 2010	ND	0.20 J	0.17 J	0.087 J	0.071 J	ND
MW-95A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	0.046 J	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-95B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97B	Shallow	First Quarter 2010	ND	ND	ND	0.039 J	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-98A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-141A	Intermediate	Fourth Quarter 2010	ND	ND	0.11 J	2.9	ND	ND
		Baseline 2010	ND	ND	ND	0.54 J	ND	ND
MW-141B	Shallow	Fourth Quarter 2010	ND	2.7 J	9.0	67.3	0.42 J	ND
		Baseline 2010	ND	3.2	9.7	58.0	0.20 J	ND
MW-141E	Intermediate	Fourth Quarter 2010	ND	0.35 J	4.7	29.0	0.14 J	ND
		Baseline 2010	ND	0.29 J	4.6 J	29.8	ND	ND
MW-142A	Intermediate	Fourth Quarter 2010	ND	0.031 J	ND	0.58 J	ND	ND
		Baseline 2010	ND	ND	ND	0.49	ND	ND
MW-142E	Shallow	Fourth Quarter 2010	0.085 J	ND	ND	2.3	ND	ND
MW-143B	Shallow	Fourth Quarter 2010	ND	0.32 J	2.6	13.3	ND	ND
		Baseline 2010	ND	0.39 J	3.1	16.2	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-144A	Intermediate	Fourth Quarter 2010	ND	0.12 J	0.22 J	29.5	ND	ND
		Baseline 2010	ND	0.062 J	0.18 J	21.4	ND	ND
MW-144E	Intermediate	Fourth Quarter 2010	ND	2.2	1.3	6.7	ND	ND
		Baseline 2010	ND	2.3	0.93	11.5	ND	ND
MW-145A	Intermediate	Fourth Quarter 2010	ND	ND	0.68	80.6	ND	ND
		Baseline 2010	ND	ND	0.67 J	63.2	ND	ND
MW-145E	Intermediate	Fourth Quarter 2010	ND	ND	1.6	105	ND	ND
		Baseline 2010	ND	ND	1.5	97.0	ND	ND
MW-146A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-146B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147D	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-147D	Deep	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-148B	Shallow	Fourth Quarter 2010	ND	0.033 J	5.4	50.1	ND	ND
		Baseline 2010	ND	0.032 J	5.3	49.8	ND	ND
MW-149A	Intermediate	Fourth Quarter 2010	ND	0.051 J	0.60	11.7	ND	0.19 J
		Baseline 2010	ND	ND	0.56	12.0	ND	ND
MW-150A	Intermediate	Fourth Quarter 2010	ND	0.16 J	1.4	12.3	ND	ND
		Baseline 2010	ND	0.16 J	1.4	12.8	ND	ND
MW-150B	Shallow	Fourth Quarter 2010	ND	0.076 J	0.88	8.7	ND	ND
		Baseline 2010	ND	0.097 J	0.88	9.5	ND	ND
MW-151A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	0.061 J	ND	ND	ND	ND
MW-151B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-152B	Shallow	Fourth Quarter 2010	ND	ND	ND	0.31 J	ND	ND
		Baseline 2010	ND	ND	ND	1.5	ND	ND
MW-153A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	0.22 J	0.14 J	1.7 J	ND	0.21 J

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

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Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-153B	Shallow	Fourth Quarter 2010	ND	ND	ND	0.38 J	ND	ND
		Baseline 2010	ND	ND	ND	0.48	ND	ND
MW-154A	Intermediate	Fourth Quarter 2010	ND	0.075 J	0.24	7.1	ND	ND
		Baseline 2010	ND	ND	0.13 J	4.5	ND	ND
MW-154B	Shallow	Fourth Quarter 2010	ND	0.018 J	0.071 J	2.8	ND	ND
		Baseline 2010	ND	ND	ND	3.0	ND	ND
MW-155A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	0.13 J	ND	ND
MW-155E	Intermediate	Fourth Quarter 2010	ND	ND	ND	0.22 J	ND	ND
		Baseline 2010	ND	ND	ND	0.25 J	ND	ND
MW-156A	Intermediate	Fourth Quarter 2010	ND	0.16 J	0.95	8.9	ND	ND
		Baseline 2010	ND	0.17 J	0.91	9.5	ND	ND
MW-156B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-157A	Intermediate	Fourth Quarter 2010	ND	ND	ND	6.5	ND	ND
		Baseline 2010	ND	ND	ND	1.5	ND	ND
MW-157B	Shallow	Fourth Quarter 2010	ND	ND	ND	0.15 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-157B	Shallow	Baseline 2010	ND	ND	ND	0.26 J	ND	ND
MW-158A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158D	Deep	Fourth Quarter 2010	ND	ND	0.13 J	ND	ND	ND
		Baseline 2010	ND	0.082 J	ND	ND	ND	ND
MW-159A	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	0.31 J	ND	ND	ND	ND	ND
MW-159B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-89E	Intermediate	Fourth Quarter 2010	ND	ND	ND	0.18 J	ND	ND
		Baseline 2010	ND	ND	ND	0.32 J	ND	ND
MW-05B	Shallow	Second Quarter 2010	0.071 J	0.053 J	0.039 J	0.42	0.47	1.6
MW-06-18D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Groundwater Monitoring Program

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Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-06-18S	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-31A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	0.035 J	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-31B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-112A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-112B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-113A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-28A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
MW-28B	Shallow	Second Quarter 2010	ND	ND	ND	2.0	ND	ND
MW-28D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
MW-29A	Intermediate	Second Quarter 2010	ND	0.047 J	0.16 J	2.8	ND	0.68 J
MW-29B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
MW-32A	Intermediate	Second Quarter 2010	ND	ND	0.15 J	5.5	ND	ND
MW-32B	Intermediate	Second Quarter 2010	ND	ND	0.10 J	7.9	ND	ND
MW-32D	Deep	Second Quarter 2010	ND	ND	0.078 J	5.1	ND	ND
MW-33A	Intermediate	Second Quarter 2010	ND	ND	0.057 J	0.21	ND	ND
MW-33B	Shallow	Second Quarter 2010	ND	ND	0.051 J	0.045 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-33D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
MW-65B	Shallow	Second Quarter 2010	0.24	0.34	0.33	22.0	0.028 J	0.23
MW-94A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-94B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-94D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-99A	Intermediate	Second Quarter 2010	ND	ND	0.086 J	1.9	ND	ND
MW-99B	Shallow	Second Quarter 2010	ND	ND	0.12 J	2.9 J	ND	ND
MW-99D	Deep	Second Quarter 2010	ND	ND	0.094 J	3.4	ND	ND
MW-09A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-09B	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-09D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-119A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-119B	Shallow	Third Quarter 2010	ND	0.052 J	0.15 J	ND	ND	ND
MW-120A	Intermediate	Third Quarter 2010	ND	ND	0.051 J	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Former Nebraska Ordnance Plant, Mead, Nebraska

Explosives								
Location	**Zone Designation**	**Event**	**2,4-DNT**	**2A-DNT**	**4A-DNT**	**RDX**	**TNB**	**TNT**
MW-120B	Shallow	Third Quarter 2010	ND	0.030 J	3.5 J	6.4	ND	ND
MW-120D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-120E	Intermediate	Third Quarter 2010	ND	ND	0.59 J	6.9	0.014 J	ND
MW-121A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-124A	Intermediate	Third Quarter 2010	ND	ND	0.039 J	ND	ND	ND
MW-124B	Shallow	Third Quarter 2010	ND	0.017 J	3.0	61.6	0.15 J	ND
MW-124D	Deep	Third Quarter 2010	ND	ND	0.052 J	ND	ND	ND
MW-125A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-125B	Shallow	Third Quarter 2010	ND	ND	4.2 J	10.1 J	0.12 J	ND
MW-125D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-126A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-126B	Shallow	Third Quarter 2010	ND	0.051 J	16.7 J	20.1 J	0.45 J	0.83 J
MW-126D	Deep	Third Quarter 2010	ND	ND	0.060 J	ND	ND	ND
MW-127A	Intermediate	Third Quarter 2010	ND	ND	ND	0.092 J	ND	ND
MW-127B	Shallow	Third Quarter 2010	ND	0.67	0.46	0.52 J	0.57	5.4
MW-127E	Shallow	Third Quarter 2010	0.13 J	3.9 J	2.6 J	19.9 J	156 J	133 J

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-08A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-08B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-09A	Intermediate	First Quarter 2010	ND	1.4 J	ND	280	ND	ND
		Third Quarter 2010	ND	ND	ND	450	ND	ND
MW-09B	Shallow	First Quarter 2010	ND	ND	ND	28.0	ND	ND
		Third Quarter 2010	ND	ND	ND	410	ND	ND
MW-09D	Deep	First Quarter 2010	ND	2.1 J	ND	500	ND	ND
		Third Quarter 2010	ND	ND	ND	580	ND	ND
MW-100A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-100B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-100D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-101A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-101B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-101B	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-101D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-102A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-102B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-102D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-103A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.41 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-103D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-104A	Intermediate	First Quarter 2010	ND	0.32 J	ND	31.0	ND	ND
		Third Quarter 2010	ND	0.40 J	ND	10.0	ND	ND
MW-104B	Shallow	First Quarter 2010	ND	ND	ND	110	ND	ND
		Third Quarter 2010	ND	0.56 J	ND	11.0	ND	ND
MW-104D	Deep	First Quarter 2010	ND	ND	ND	1.4	ND	ND
		Third Quarter 2010	ND	ND	ND	2.0	ND	ND
MW-104O	Shallow	First Quarter 2010	ND	1.4	ND	0.72 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-104O	Shallow	Third Quarter 2010	ND	1.4	ND	0.51 J	0.18 J	ND
MW-105A	Intermediate	First Quarter 2010	ND	2.0	ND	40.0	ND	ND
		Third Quarter 2010	ND	1.1	ND	22.0	ND	ND
MW-105B	Shallow	First Quarter 2010	ND	1.4	ND	29.0 J	ND	ND
		Third Quarter 2010	ND	1.6	ND	30.0	ND	ND
MW-105O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-106D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-106D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-107D	Deep	First Quarter 2010	ND	ND	1.0 J	ND	0.60 J	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-108A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-108D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-109A	Intermediate	First Quarter 2010	ND	0.32 J	ND	8.7	ND	ND
		Third Quarter 2010	ND	0.30 J	ND	7.9	ND	ND
MW-109B	Intermediate	First Quarter 2010	ND	0.34 J	ND	10.0	ND	ND
		Third Quarter 2010	ND	0.27 J	ND	8.6	ND	ND
MW-109O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.29 J	ND	ND
MW-10A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-10B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-110A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-110B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-110D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-111A	Intermediate	First Quarter 2010	ND	ND	ND	5.2	ND	ND
		Third Quarter 2010	ND	ND	ND	4.9	ND	ND
MW-111B	Shallow	First Quarter 2010	ND	ND	ND	12.0	ND	ND
		Third Quarter 2010	ND	ND	ND	10.0	ND	ND
MW-111O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-111O	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-114D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-115B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-115D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-116A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	1.2	ND	ND
MW-116B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-116D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-116D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-117D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-118A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-118A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-118B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-121B	Shallow	First Quarter 2010	ND	ND	ND	1.1	ND	ND
		Third Quarter 2010	ND	ND	ND	0.52 J	ND	ND
MW-121E	Intermediate	First Quarter 2010	ND	ND	ND	1.5	ND	ND
		Third Quarter 2010	ND	ND	ND	0.89 J	ND	ND
MW-122A	Intermediate	First Quarter 2010	ND	2.5 J	ND	230	ND	ND
		Third Quarter 2010	ND	2.3 J	ND	180	ND	ND
MW-122B	Intermediate	First Quarter 2010	ND	3.1 J	ND	820	ND	ND
		Third Quarter 2010	ND	2.3 J	ND	940	ND	ND
MW-123A	Intermediate	First Quarter 2010	ND	0.81 J	ND	7.2	ND	ND
		Third Quarter 2010	ND	0.68 J	ND	6.7	ND	ND
MW-123B	Shallow	First Quarter 2010	ND	0.37 J	ND	15.0	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-123B	Shallow	Third Quarter 2010	ND	0.30 J	ND	11.0	ND	ND
MW-138A	Intermediate	First Quarter 2010	ND	ND	ND	0.46 J	ND	ND
		Third Quarter 2010	ND	ND	ND	3.0	ND	ND
MW-138B	Shallow	First Quarter 2010	ND	12.0	ND	1300	ND	ND
		Third Quarter 2010	ND	13.0	ND	2200	ND	ND
MW-139A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	1.4	ND	ND
MW-139B	Shallow	First Quarter 2010	ND	2.8 J	ND	460	ND	ND
		Third Quarter 2010	ND	2.1 J	ND	350	ND	ND
MW-140A	Intermediate	First Quarter 2010	ND	ND	ND	0.21 J	ND	ND
		Third Quarter 2010	ND	ND	0.27 J	ND	ND	ND
MW-140B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-140D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-140O	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-18A	Deep	First Quarter 2010	ND	ND	ND	0.78 J	ND	ND
MW-18B	Intermediate	First Quarter 2010	ND	ND	ND	1.3	ND	ND
MW-18C	Shallow	First Quarter 2010	ND	0.41 J	ND	13.0	ND	ND
MW-20A	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-20B	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-20C	Shallow	First Quarter 2010	ND	ND	0.26 J	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	1.8	ND	ND
		Fourth Quarter 2010	ND	ND	ND	0.71 J	ND	ND
MW-21A	Intermediate	First Quarter 2010	ND	ND	ND	20.0	ND	ND
		Third Quarter 2010	ND	ND	ND	33.0	ND	ND
MW-21B	Shallow	First Quarter 2010	ND	ND	ND	50.0	ND	ND
		Third Quarter 2010	ND	ND	ND	53.0	ND	ND
MW-21D	Deep	First Quarter 2010	ND	30.0	ND	31.0	39.0	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-21D	Deep	Third Quarter 2010	ND	2.2 J	ND	250	2.5 J	ND
MW-24A	Intermediate	First Quarter 2010	ND	6.9 J	ND	1200	ND	ND
		Third Quarter 2010	ND	5.9 J	ND	930	ND	ND
MW-24B	Shallow	First Quarter 2010	ND	ND	ND	22.0	ND	ND
		Third Quarter 2010	ND	ND	ND	49.0	ND	ND
MW-25A	Intermediate	First Quarter 2010	ND	ND	ND	0.96 J	0.23 J	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-25B	Shallow	First Quarter 2010	ND	0.22 J	ND	20.0	ND	ND
MW-25D	Deep	First Quarter 2010	ND	ND	ND	1.0	0.25 J	ND
MW-35A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-35B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-35D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-38A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-38D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-41B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-41D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-42A	Intermediate	First Quarter 2010	ND	0.39 J	ND	57.0	ND	ND
MW-42B	Shallow	First Quarter 2010	ND	ND	ND	0.91 J	ND	ND
MW-42D	Deep	First Quarter 2010	ND	ND	ND	1.1	ND	ND
MW-43A	Intermediate	First Quarter 2010	ND	ND	ND	7.3	ND	ND
MW-43B	Shallow	First Quarter 2010	ND	ND	ND	3.6	ND	ND
MW-43D	Deep	First Quarter 2010	ND	ND	ND	16.0	ND	ND
MW-44A	Intermediate	First Quarter 2010	ND	2.1 J	ND	170	ND	ND
MW-44B	Shallow	First Quarter 2010	ND	ND	ND	4.4	ND	ND
MW-44D	Deep	First Quarter 2010	ND	ND	ND	14.0	ND	ND
MW-46A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-46A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-46B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-46D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-54A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-54B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-55A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-55B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.43 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

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Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-61A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.38 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-61B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-61D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	2.7	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.84 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-62D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	1.6	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-62D	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-64B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-79A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-79B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-80A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-80B	Shallow	First Quarter 2010	ND	ND	ND	0.77 J	ND	ND
MW-80D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-81A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-81B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-81D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-82D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-83A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-83B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-83B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-83D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-84A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-84B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-84D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-85A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-85B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-85D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-86A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-86B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-86D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-86D	Deep	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-87A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-87B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-87D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-88A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-88B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-88D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-89A	Intermediate	First Quarter 2010	ND	ND	ND	0.82 J	ND	ND
MW-89B	Shallow	First Quarter 2010	ND	ND	ND	1.7	ND	ND
MW-89D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-90A	Intermediate	First Quarter 2010	ND	ND	ND	260	ND	ND
		Third Quarter 2010	ND	ND	ND	120	ND	ND
MW-90B	Shallow	First Quarter 2010	ND	ND	ND	560	ND	ND
		Third Quarter 2010	ND	ND	ND	450	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-90D	Deep	First Quarter 2010	ND	ND	ND	390	ND	ND
		Third Quarter 2010	ND	0.38 J	ND	140	ND	ND
MW-91A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-91B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-91D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-92A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-92B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-93A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-93B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-95B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-95D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-96D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-97B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-97D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98A	Intermediate	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98B	Shallow	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-98D	Deep	First Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-133A	Intermediate	Fourth Quarter 2010	ND	0.21 J	ND	25.0	ND	ND
MW-133B	Shallow	Fourth Quarter 2010	ND	ND	ND	3.0	ND	ND
MW-133D	Deep	Fourth Quarter 2010	ND	1.2 J	ND	150	ND	ND
MW-134A	Intermediate	Fourth Quarter 2010	ND	1.8	ND	44.0	ND	ND
MW-134B	Shallow	Fourth Quarter 2010	ND	11.0	ND	200	ND	ND
MW-134D	Deep	Fourth Quarter 2010	ND	0.26 J	ND	49.0	ND	ND
MW-135A	Intermediate	Fourth Quarter 2010	ND	1.5	ND	70.0	ND	ND
MW-135B	Shallow	Fourth Quarter 2010	ND	20.0	ND	250	ND	ND
MW-135D	Deep	Fourth Quarter 2010	ND	3.6 J	ND	360	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	Zone Designation	Event	1,2-DCP	CIS-1,2-DCE	Methylene Chloride	TCE	TRANS-1,2-DCE	Vinyl Chloride
MW-141A	Intermediate	Fourth Quarter 2010	ND	13.0	ND	5700	ND	ND
		Baseline 2010	ND	17.0	ND	6300	ND	ND
MW-141B	Shallow	Fourth Quarter 2010	ND	9.8 J	ND	8700	ND	ND
		Baseline 2010	ND	10.0 J	ND	8800	ND	ND
MW-141E	Intermediate	Fourth Quarter 2010	ND	18.0 J	ND	10000	3.9 J	ND
		Baseline 2010	ND	18.0	ND	10000	3.5 J	ND
MW-142A	Intermediate	Fourth Quarter 2010	ND	1.2 J	ND	830	ND	ND
		Baseline 2010	ND	1.5 J	ND	900	ND	ND
MW-142E	Shallow	Fourth Quarter 2010	ND	1.8 J	ND	1500	ND	ND
MW-143B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	0.22 J	ND	ND
MW-144A	Intermediate	Fourth Quarter 2010	ND	ND	ND	0.31 J	ND	ND
		Baseline 2010	ND	ND	ND	0.35 J	ND	ND
MW-144E	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-145A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	0.58 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-145E	Intermediate	Fourth Quarter 2010	ND	ND	ND	0.33 J	ND	ND
		Baseline 2010	ND	ND	ND	0.23 J	ND	ND
MW-146A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-146B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-147D	Deep	Fourth Quarter 2010	ND	ND	ND	0.42 J	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-148B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-149A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-150A	Intermediate	Fourth Quarter 2010	ND	ND	ND	0.32 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-150A	Intermediate	Baseline 2010	ND	ND	ND	ND	ND	ND
MW-150B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-151A	Intermediate	Fourth Quarter 2010	ND	1.4	ND	53.0	ND	ND
		Baseline 2010	ND	6.6	ND	1000	ND	ND
MW-151B	Shallow	Fourth Quarter 2010	ND	6.8	ND	1100	ND	ND
		Baseline 2010	ND	6.4	ND	47.0	ND	ND
MW-152B	Shallow	Fourth Quarter 2010	ND	1.4	ND	17.0	ND	ND
		Baseline 2010	ND	2.5	ND	21.0	ND	ND
MW-153A	Intermediate	Fourth Quarter 2010	ND	4.4	ND	1100	ND	ND
		Baseline 2010	ND	0.81 J	ND	140	ND	ND
MW-153B	Shallow	Fourth Quarter 2010	ND	2.8 J	ND	480	ND	ND
		Baseline 2010	ND	2.0 J	ND	370	ND	ND
MW-154A	Intermediate	Fourth Quarter 2010	ND	1.3	ND	24.0	ND	ND
		Baseline 2010	ND	1.2	ND	31.0	ND	ND
MW-154B	Shallow	Fourth Quarter 2010	ND	0.54 J	ND	11.0	ND	ND
		Baseline 2010	ND	0.46 J	ND	9.9	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

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Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-155A	Intermediate	Fourth Quarter 2010	ND	3.4	ND	790	ND	ND
		Baseline 2010	ND	3.2 J	ND	690	ND	ND
MW-155E	Intermediate	Fourth Quarter 2010	ND	2.8 J	ND	490	0.74 J	ND
		Baseline 2010	ND	2.7 J	ND	630	ND	ND
MW-156A	Intermediate	Fourth Quarter 2010	ND	0.25 J	ND	4.4	ND	ND
		Baseline 2010	ND	0.30 J	ND	4.2	ND	ND
MW-156B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-157A	Intermediate	Fourth Quarter 2010	ND	0.23 J	ND	22.0	ND	ND
		Baseline 2010	ND	0.25 J	ND	46.0	ND	ND
MW-157B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-158D	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-158D	Deep	Baseline 2010	ND	ND	ND	ND	ND	0.71 J
MW-159A	Deep	Fourth Quarter 2010	ND	ND	ND	ND	ND	0.44 J
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-159B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
		Baseline 2010	ND	ND	ND	ND	ND	ND
MW-89E	Intermediate	Fourth Quarter 2010	ND	ND	ND	140	ND	ND
		Baseline 2010	ND	ND	ND	190	ND	ND
MW-05A	Intermediate	Second Quarter 2010	ND	1.2	ND	1.1	ND	ND
MW-05B	Shallow	Second Quarter 2010	ND	ND	ND	1.0	ND	ND
MW-06-18D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-18S	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-31A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-06-31A	Intermediate	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06-31B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	ND	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
MW-06B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
MW-112A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.66 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-112B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.37 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113A	Intermediate	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.38 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113B	Shallow	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.58 J	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-113B	Shallow	Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-113D	Deep	Second Quarter 2010	ND	ND	ND	ND	ND	ND
		Third Quarter 2010	ND	ND	ND	0.30 J	ND	ND
		Fourth Quarter 2010	ND	ND	ND	ND	ND	ND
MW-40B	Shallow	Second Quarter 2010	ND	1.3 J	ND	110 J	ND	ND
MW-72A	Intermediate	Second Quarter 2010	ND	ND	ND	2.7	ND	ND
MW-72B	Shallow	Second Quarter 2010	ND	14.0 J	ND	2200	ND	ND
MW-73A	Intermediate	Second Quarter 2010	ND	ND	ND	1.0	ND	ND
MW-73B	Shallow	Second Quarter 2010	ND	1.2	ND	230	ND	ND
MW-119A	Intermediate	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-119B	Shallow	Third Quarter 2010	ND	ND	ND	ND	ND	ND
MW-120A	Intermediate	Third Quarter 2010	ND	7.2	ND	340	ND	ND
MW-120B	Shallow	Third Quarter 2010	ND	12.0 J	ND	11000	ND	ND
MW-120D	Deep	Third Quarter 2010	ND	0.29 J	ND	ND	ND	ND
MW-120E	Intermediate	Third Quarter 2010	ND	18.0 J	ND	15000	ND	ND
MW-121A	Intermediate	Third Quarter 2010	ND	ND	ND	0.85 J	ND	ND
MW-124A	Intermediate	Third Quarter 2010	ND	12.0	ND	3100	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

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Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	Zone Designation	Event	1,2-DCP	CIS-1,2-DCE	Methylene Chloride	TCE	TRANS-1,2-DCE	Vinyl Chloride
MW-124B	Shallow	Third Quarter 2010	ND	24.0 J	ND	16000	ND	ND
MW-124D	Deep	Third Quarter 2010	ND	4.5	ND	650	ND	ND
MW-125A	Intermediate	Third Quarter 2010	ND	4.2	ND	710	ND	ND
MW-125B	Shallow	Third Quarter 2010	ND	3.9 J	ND	2000	ND	ND
MW-125D	Deep	Third Quarter 2010	ND	ND	ND	5.5	ND	ND
MW-126A	Intermediate	Third Quarter 2010	ND	25.0	ND	8000	6.3 J	ND
MW-126B	Shallow	Third Quarter 2010	ND	18.0 J	ND	11000	ND	ND
MW-126D	Deep	Third Quarter 2010	ND	18.0	ND	740	0.52 J	ND
MW-127A	Intermediate	Third Quarter 2010	ND	3.1	ND	28.0	4.4	ND
MW-127B	Shallow	Third Quarter 2010	ND	7.5	ND	160	20.0	ND
MW-127E	Shallow	Third Quarter 2010	ND	ND	ND	21.0	ND	ND
MW-136A	Intermediate	Third Quarter 2010	ND	ND	ND	15.0	ND	ND
MW-136B	Shallow	Third Quarter 2010	ND	1.6 J	ND	130	ND	ND
MW-136D	Deep	Third Quarter 2010	ND	0.40 J	ND	18.0	ND	ND
MW-136E	Shallow	Third Quarter 2010	ND	2.3 J	ND	370	ND	ND
MW-137A	Intermediate	Third Quarter 2010	ND	ND	ND	5.0	ND	ND
MW-137B	Shallow	Third Quarter 2010	ND	1.5 J	ND	350	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix D - Summary of Results from the 2010 Monitoring Well Sampling Events

All Results for Monitoring Well Sampling Events

Groundwater Monitoring Program

Former Nebraska Ordnance Plant, Mead, Nebraska

Volatile Organic Compounds								
Location	**Zone Designation**	**Event**	**1,2-DCP**	**CIS-1,2-DCE**	**Methylene Chloride**	**TCE**	**TRANS-1,2-DCE**	**Vinyl Chloride**
MW-137D	Deep	Third Quarter 2010	ND	ND	ND	5.8	ND	ND
MW-137E	Shallow	Third Quarter 2010	ND	12.0	ND	2700	ND	ND

Notes:

Indicates TCE and RDX exceeding Final Target Groundwater Cleanup Goals of 5 ug/L and 2 ug/L, respectively

Appendix E
2010 Data Quality Assessment

APPENDIX E
FORMER NEBRASKA ORDNANCE PLANT, MEAD, NEBRASKA
2010 DATA QUALITY ASSESSMENT

The project's data quality objectives (DQOs) were determined using a series of planning steps as defined in the *EPA Guidance for Data Quality Objective Process QA/G-4* (EPA, 2000). The DQO development process is used to optimize the collection of data necessary to meet the applicable decision criteria. DQO assessment is performed and specified in the Site Wide Work Plan (2009) qualitatively and quantitatively through an examination of data quality indicators (DQIs). The DQIs are measurable attributes that are defined in terms of precision, bias (accuracy), representativeness, comparability, completeness, and sensitivity (formerly PARCC) parameters. This DQI examination provides the following project information:

- Assesses whether project requirements are met;
- Identifies the limits of data usability; and
- Evaluates the data limitation in achieving program DQOs.

This section provides a description of each of the DQIs, and an assessment of the sample data with respect to project goals. Data validation was performed for 100% of the data in accordance with requirements of the *Mead Validation Guidance* (ECC, 2007). Detailed information regarding various laboratory and field quality control (QC) data is located in the applicable 2010 Quality Control Summary Reports (QCSRs)(ECC 2010 and ECC 2011). Reasons for application of data qualifiers (flags) are described in the QCSRs.

CRITERIA FOR ASSESSMENT

The following text describes the criteria for DQI assessment of precision, bias, representativeness, completeness, comparability, and sensitivity for the 2010 sampling events. General assessments of representativeness, comparability, and sensitivity applicable to all 2010 event are also discussed. Precision, bias, and completeness assessments are provided in the subsequent sub-sections by program type. Data qualified as rejected (R/UR) are detailed only if replacement data points were not generated.

<u>Precision</u>
Precision is defined as the agreement between duplicate results, and was evaluated by comparing matrix spike and matrix spike duplicate (MS/MSD) relative percent differences (RPDs), field duplicate RPDs, and laboratory control sample and laboratory control sample duplicate (LCS/LCSD) RPDs.

<u>Bias</u>
Bias (accuracy) is a measure of the agreement between an experimental determination and the true value of the parameter being measured. Surrogate recovery, MS/MSD sample recoveries, and LCS/LCSD recoveries are used to assess accuracy and evaluate matrix effects.

Representativeness

Representativeness is a qualitative measure of the degree to which sample data accurately and precisely represents a characteristic environmental condition. Representativeness is a subjective parameter and is used to evaluate the efficiency of the sampling plan design.

2010 Representativeness Assessment -

The representativeness of all 2010 data was quantitatively assessed by evaluating sample collection and analytical procedures described in the *Site Wide Work Plan* (ECC, 2009). No deviations from sampling or analytical procedures were encountered during 2010.

Completeness

Project completeness combines sampling and analytical protocols to assess the expectations of the project as a whole. Project completeness is determined by comparing the number of measurements that are judged to be usable to the total number of measurements planned or observed. For the field completeness calculation, this involves comparison of the number of samples properly collected to the number of samples planned for collection. For the analytical data completeness calculation, this involves comparison of the number of usable data points to the number of observed data points. Data qualified as estimated (J/UJ) are considered usable.

Comparability

Comparability is a qualitative measure designed to express the confidence with which one data point may be compared to another. Factors that affect comparability are sample collection and handling techniques, sample matrix, and analytical method. Comparability is limited by the other DQIs because data sets can be compared with confidence only when precision and accuracy are known.

2010 Comparability Assessment -

Data from the 2010 sampling events are comparable with other data collected at the site because:

- appropriate analytical methods outlined in the project work plans were used to analyze the samples,
- QC data as required by the *Site-Wide Work Plan* (ECC, 2009) were provided, and
- Field samples were collected in accordance with project work plans.

Sensitivity

The term sensitivity is used to describe the project method detection limits, and quantitation and/or reporting limits established to meet project-specific DQOs.

2010 Sensitivity Assessment –

No data were rejected due to unacceptable method detection limits (MDLs) or reporting limits (RLs).

2010 MONITORING WELL SAMPLING EVENTS

The following sub-sections provide the DQI assessment for the 2010 Monitoring Well sampling events.

Precision

Field duplicates were collected at a rate greater than one per 10 field sample and results were acceptable. Results were qualified (J/UJ) for LCS/LSCD RPD outlier values and MS/MSD RPD outliers. Results were qualified (J) for inter-column RPD values greater than 40 % (explosives detections only). Matrix interference and method precision limitations had minimal impact on the data and no data were rejected (R/UR) due to RPD outlier values.

Bias

Results were qualified (J/UJ) for LCS/LSCD recovery outliers, (J/UJ) for MS/MSD recovery outliers, and (J/UJ) for surrogate outlier recoveries. Samples had an analyte qualified as non-detect (U) due to equipment rinsate contamination. Matrix interference and method bias had minimal impact on the data. No data were rejected (R/UR) due to bias indicators.

Completeness

Project completeness was assessed for each sampling event by combining overall field completeness and the percentage of usable data for each of the 2010 events. Overall project completeness was calculated by averaging the project completeness percentages for each sampling event. The 2010 project completeness results for the Monitoring Well program are presented in each of the quarterly QCSRs.

2010 WATER SUPPLY WELL SAMPLING EVENTS

The following sub-sections provide the DQI assessment for the 2010 Water Supply Well sampling events.

Precision

Field duplicates were collected at a rate greater than one per 10 field sample and results were acceptable. Results were qualified (J/UJ) for LCS/LSCD RPD outlier values and MS/MSD RPD outliers. Results were qualified (J) for inter-column RPD values greater than 40 % (explosives detections only). Matrix interference and method precision limitations had minimal impact on the data and no data were rejected (R/UR) due to RPD outlier values.

Bias

Results were qualified (J/UJ) for LCS/LSCD recovery outliers, (J/UJ) for MS/MSD recovery outliers, and (J/UJ) for surrogate outlier recoveries. Matrix interference and method bias had minimal impact on the data. No data were rejected (R/UR) due to bias indicators.

Completeness

Project completeness was assessed for each sampling event by combining overall field completeness and the percentage of usable data for each of the 2010 Water Supply Well sampling events. Overall project completeness was calculated by averaging the project

completeness percentages for each event. The 2010 project completeness results for the Water Supply Well program are presented in each of the quarterly QCSRs.

2010 SURFACE WATER SAMPLING EVENT

The following sub-sections provide the DQI assessment for the 2010 Surface Water sampling events.

Precision

Field duplicates were collected at a rate greater than one per 10 field sample and results were acceptable. Results were qualified (J/UJ) for LCS/LSCD RPD outlier values and MS/MSD RPD outliers. Results were qualified (J) for inter-column RPD values greater than 40 % (explosives detections only). Matrix interference and method precision limitations had minimal impact on the data and no data were rejected (R/UR) due to RPD outlier values.

Bias

Results were qualified (J/UJ) for LCS/LSCD recovery outliers, (J/UJ) for MS/MSD recovery outliers, and (J/UJ) for surrogate outlier recoveries. Matrix interference and method bias had minimal impact on the data. No data were rejected (R/UR) due to bias indicators.

Completeness

Project completeness was assessed for each sampling event by combining overall field completeness and the percentage of usable data for each of the 2010 Surface Water events. Overall project completeness was calculated by averaging the project completeness percentages for each sampling event. The 2010 project completeness results for the Surface Water program are presented in each of the quarterly QCSRs.