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March 12, 2015

Mr. Glenn von Gonten
Senior Hydrologist
Environmental Bureau
New Mexico Oil Conservation Division
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Re: Former Chevron North Eunice Gas Plant (Discharge Permit GW-004)
Former Chevron South Eunice Gas Plant (Discharge Permit GW-003)
2014 Annual Groundwater Monitoring Reports

Dear Mr. Von Gonten,

As Operator of the remediation programs at the Former North Eunice Gas Plant and the Former South Eunice Gas Plant, Chevron Environmental Management Company is submitting electronic versions (Adobe PDF versions via FTP) of the following reports:

- *2014 Annual Groundwater Monitoring Report, Former Chevron Eunice South Gas Plant, Lea County, New Mexico*
- *2014 Annual Groundwater Monitoring Report, Former Chevron Eunice North Gas Plant, Eunice, Lea County, New Mexico*

These reports were prepared by Conestoga-Rovers & Associates (CRA) on behalf of CEMC to document the results of groundwater monitoring activities conducted at the above referenced sites in 2014. These reports are being provided in accordance with the requirements of Discharge Permits GW-003 and GW-004.

Should you have any questions regarding the reports or activities being conducted at either site, please do not hesitate to contact me by phone at 713-372-7705 or via e-mail at kegan.boyer@chevron.com.

Sincerely,

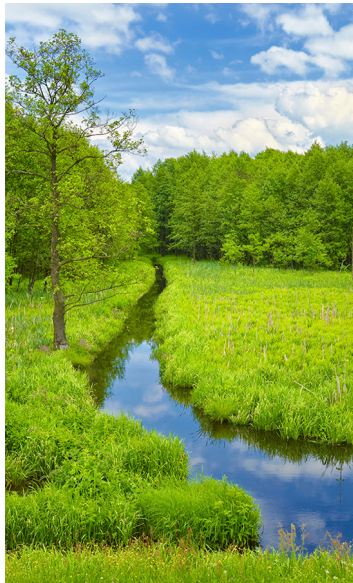
A handwritten signature in blue ink, appearing to read "Kegan W. Boyer", written over a horizontal line.

Kegan W. Boyer, P.G.
Environmental Project Manager

cc: Dr. Tomas Oberding, NMOCD
Mike Wisniowiecki, CRA



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Final Report

2014 Annual Groundwater Monitoring Report

Former Eunice North Gas Plant
Eunice, Lea County, New Mexico

Prepared for: Chevron Environmental Management Company

Conestoga-Rovers & Associates

6320 Rothway, Suite 100
Houston, Texas 77040

February 2015 • 073018 • Report No. 11





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& ASSOCIATES**

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2014 Annual Groundwater Monitoring Report

Former Eunice North Gas Plant
Eunice, Lea County, New Mexico

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SUBMITTED BY:

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Section 1.0 Introduction

Conestoga-Rovers & Associates (CRA) appreciates the opportunity to submit this groundwater monitoring report for Chevron Environmental Management Company.

1.1 Overview

This Annual Groundwater Monitoring Report presents groundwater monitoring activities performed during the 2014 calendar year by environmental consultant Conestoga-Rovers and Associates (CRA) on behalf of Chevron Environmental Management Company (CEMC) at the Former Eunice North Gas Plant hereafter referred to as the "Site."

Site activities performed in 2014 included:

- Two semi-annual groundwater monitoring events performed in May and November 2014;
- Plugging and abandonment of 14 analytically unnecessary or otherwise unneeded monitoring wells; and
- Product recovery at monitoring well MW-006.

1.2 Facility Location and History

The Site is located approximately 0.5 miles north of the town of Eunice in the south half of the southeast quarter (SE/4) of the northeast quarter (NE/4) of Section 28, Township 21 South (T-21-S), Range 37 East (R-37-E). The approximate latitude/longitude coordinates for the Site are 32°27'01.46"N and 103°09'42.71"W. For the purpose of this report, the Site included in the groundwater monitoring program is comprised of the original gas plant property and surrounding areas.

The Site was originally constructed by Skelly Oil Company during the 1940s, and subsequently acquired and modified by Texaco Exploration and Production, Inc. (Texaco) to operate as a turbo expander-type natural gas processing plant for extraction of natural gas liquids (NGL). Texaco operated the plant into the 1980s when the plant operations ceased and much of the equipment was dismantled and/or shut-in. Structures remaining on Site include two compressors, a compressor building, a cooling tower, former office buildings, above-ground storage tanks, sumps, and piping. Operations were transferred to Versado Gas Processors, LLC (Versado) on July 1, 1998. Versado is a limited liability partnership originally between Chevron and Dynegy Midstream Services (Dynegy). Dynegy continued to operate the two compressors in the northern portion of the Site. Dynegy subsequently was purchased by Targa Midstream Services, L.P. (Targa). Targa became a partner with Versado and currently operates the facility

as a natural gas compressor station under an agreement with Chevron. Site Location and Site Details maps are illustrated on Figures 1 and 2.

In the early 1990s, Texaco discovered benzene and chromium contamination in soils and groundwater at the Site. In 1996, the New Mexico Oil Conservation Division (NMOCD) required an initial investigation of sumps at the plant as a condition of Groundwater Discharge Permit GW-004. This investigation confirmed dissolved benzene and chromium in groundwater at concentrations exceeding New Mexico Water Quality Control Commission (NMWQCC) human health standards. It was speculated that the source of the chromium contamination was from cooling tower blow-down waters being discharged around the surface of the plant. Sequential discharge permits have been submitted as needed. The current permit (Appendix A) was approved in January 2012 and is effective until March 2016.

Several soil and groundwater investigations were conducted between 1996 and 2003. Three (3) primary dissolved-phase groundwater constituents of concern (COCs) were identified at the Site including: total and hexavalent chromium, dissolved petroleum hydrocarbons, and dissolved solids (with chloride concentrations representative of dissolved solids). Arsenic, iron and manganese are also included in the Discharge Permit groundwater monitoring requirements and have been sampled and analyzed for since 2004.

In 2003, a buried metal sump was removed, along with approximately 740 cubic yards of hydrocarbon impacted soils, in the vicinity of monitor wells MW005 and MW006. The area was over-excavated and backfilled during the remedial effort. Light non-aqueous phase liquids (LNAPLs) have been observed periodically in monitor wells MW005 and MW006 since the remediation was completed (3.55 ft. LNAPL observed in MW-006 in November 2014). Semi-annual groundwater monitoring and LNAPL recovery and remediation activities were initiated at these wells in 2004. LNAPL recovery was suspended at these wells in 2011 as LNAPL was not detected in any monitor wells during the 2011 or 2012 sampling events.

Beginning in 2003, remedial efforts for chromium contamination in groundwater were initiated. A “study area” was established in the area of highest chromium concentrations and three injection wells were installed to allow pilot testing of remedial alternatives. An initial remedial alternative was tested in an “In-Situ Reactive Zone” (IRZ). Groundwater treatment, consisting of injections of molasses, was completed to provide a carbohydrate-based electron donor to lower the oxidation-reduction potential of groundwater to stimulate reduction of hexavalent chromium to trivalent chromium. Trivalent chromium is less toxic and readily precipitates as $\text{Cr}(\text{OH})_3$ under alkaline or even slightly acidic conditions. The initial pilot study was expanded through installation of a longitudinal array of 14 injection wells completed at the northeastern end of the chromium plume (distal array). The IRZ treatment was applied to this array as well.

IRZ treatments were discontinued in 2005 when bench testing demonstrated an alternative method could be a potentially more effective remedy.

In 2008, the bench tested remedial alternative was implemented as an in-situ pilot study. Injection wells IW018 through IW028 (medial array) were selected as injection wells since they bisect the dissolved chromium plume perpendicular to the groundwater flow direction. An inorganic reducing agent (calcium polysulfide) along with an electron donor (sodium acetate solution) was injected in each well continuously for seven (7) days. The pilot study demonstrated that chromium concentrations were reduced in the area of the injections, however, clogging of the wells occurred.

Monitoring of groundwater conditions after initiation of the two September 2012 pilot injection tests located in the southeast corner of the facility property (approved by NMOCD and detailed in renewed Discharge Permit #GW-004) was completed in October 2013 and evaluation of the results is ongoing. Groundwater analytical and pilot test results and recommendations were summarized and submitted to NMOCD in a separate report in March 2014.

As requested by NMOCD, a chloride soil investigation of a reported former irrigation system within the facility boundaries as potential source of chlorides was performed in 2013. A Chloride Investigation Work Plan – Sprinkler System Area was submitted by CEMC to NMOCD in July 2012. In addition to the proposed soil borings, and prior to any soil boring installation, CEMC performed a geophysical investigation and metal detection survey in April 2013 using electromagnetic methods to better identify chloride-affected soils and focus soil boring locations on potential high-concentration chloride soil areas. Based on the geophysical conductivity response and metal detection surveys, and the confirmatory soil sampling results, soils at the ENGP facility did not appear to contain elevated levels of chloride-impacted soils from the surface to 28 feet bgs. The reported sprinkler system did not appear to have been a source of chloride soil contamination to the extent it was reported in facility soils. The investigation for potential chloride source(s) within facility boundaries did not identify such a source or identify significantly elevated concentrations of chlorides in site soils. A summary Chloride Investigation Report was submitted to NMOCD in January 2014.

Fourteen monitor wells were plugged and abandoned (P&A'd) in 2014. Under the terms of Discharge Permit Condition 2.G.3 (GW-004) and with NMOCD approval, CEMC submitted a proposed well plugging and abandonment (P&A) request to the NMOCD on August 21, 2013 under the terms of Discharge Permit GW-004, for the former Chevron Eunice North facility. NMOCD approved this P&A request in early November 2013. As the 15 wells were deemed non-essential and approved for P&A, these wells were not included in the second half 2013 groundwater monitoring event and sampling activities. Just prior to this NMOCD approval, The City of Eunice Mayor, Mr. Matt White, requested to CRA and CEMC that one of the 15 wells to

be P&A'd, shallow well MW-033 (located on the northwest corner of Avenue Q and 15th Streets), be P&A'd due to pending utility construction. CRA P&A'd shallow well MW-033 in accordance with Office of State Engineer procedures on November 11, 2013. The remaining 14 P&A approved wells were plugged and abandoned in March 2014.

Section 2.0 Regulatory Background

The New Mexico Oil Conservation Division (NMOCD) guidelines require groundwater to be analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103 Sections A & B. NMWQCC 20.6.2.3103 Section A provides the Human Health Standards for Groundwater; Section B provides Other Standards for Domestic Water Supply. The constituents of concern (COCs) designated for affected groundwater at the Site are - benzene, toluene, ethylbenzene, and xylenes (BTEX), dissolved arsenic, dissolved chromium, hexavalent chromium, total dissolved solids (TDS) and chlorides. In this report, groundwater analytical results for the COCs are compared to the NMWQCC standards as show in the following table:

Analyte	NMWQCC Standard for Groundwater (mg/L)
20.6.2.3103 Section A – Human Health Standard	
Arsenic	0.100
Chromium	0.050
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62
20.6.2.3103 Section B – Other Standards for Domestic Water Supply	
Chloride	250
Iron	1.0
Manganese	0.2
Total Dissolved Solids	1,000

Section 3.0 Groundwater Monitoring Activities

Groundwater at the Site is monitored on a semi-annual basis with a network of 135 wells which include:

Shallow zone wells:

- Forty-two shallow zone monitor wells;
- Two shallow zone injection wells (IW001 and IW002); and
- One shallow zone recovery well (RW003).

Middle zone wells: (Grouped with shallow zone wells throughout the report for simplicity)

- Four middle zone monitor wells (MW-8M, MW-11M, MW-12M and MW-88M).

Deep zone wells:

- Fifty-five deep zone monitor wells (identified with an A or SA appended to well ID);
- Fourteen deep zone injection wells at the distal array (IW012 is not sampled);
- Ten deep zone medial array injection wells;
- Two deep zone recovery wells (RW003 and RW004A); and
- Five deep zone water wells (drilled and owned by landowners – LORDWW, ROLANDWW, WOODELLWW, GOPWW2, EPWW1 (no current access)).

Four deep wells were also installed as part of a chromium remediation pilot test in June 2012 but are not included as part of the groundwater monitoring network.

The two semi-annual groundwater monitoring events were performed in May and November 2014.

3.1 Groundwater Gauging

Prior to purging wells, depth to groundwater was gauged and recorded from the top of casing (TOC) in all accessible wells to the nearest hundredth of a foot utilizing an oil-water interface probe. No measurable LNAPL thicknesses were detected in any wells during the 2014 calendar year except for MW006 with a LNAPL thickness of 3.55 inches observed on November 3 2014.

Shallow Zone Wells

Depth to groundwater measurements were collected from 51 and 48 shallow zone wells during the May and November 2014 gauging events, respectively. Depth to water measurements ranged from 37.74 feet (in MW018) to 67.2 feet (in MW068) below top-of-casing (TOC) during

the May 2014 gauging event and from 36.7 feet (in MW018) to 67.09 feet (in MW068) below TOC during the November 2014 gauging event.

Deep Zone Wells

Depth to groundwater measurements were collected from 80 deep zone wells during both of the May and November 2014 gauging events. Depth to water measurements ranged from 37.81 feet (in MW019A) to 59.32 feet (in MW070A) below TOC in May 2014 and from 37.09 feet (in MW019A) to 65.8 feet in IW011 below TOC in November 2014.

Groundwater Gradient

Groundwater elevations at the Site appear to be consistent with historical levels and the groundwater gradient continues to be to the northeast direction. The average gradient observed in the shallow zone in 2014 was 0.0031 feet/foot. The average gradient observed in the deep zone in 2014 was 0.0054 feet/foot. Shallow and deep zone groundwater gradient maps for both 2014 semi-annual groundwater monitoring events are presented as Figures 3, 4, 5, and 6. Depth to groundwater elevations collected in 2011 through 2014 are presented in Table 1. Historical groundwater elevation data (1997-2014) for shallow and deep wells are presented in Appendix B.

3.2. Well Purging and Sampling

A total of 131 wells from the shallow and deep zones were gauged in the May 2014 event, and 145 wells were sampled. Wells IW011 and IW012 were gauged but not sampled due to insufficient water volume, and well IW-9 was sampled with a bailer but not enough volume to low flow sample. A depth to groundwater measurement was obtained for monitor well MW034, however the water level was obstructed by roots present in the well. Water wells LORDWW and WoodellWW were sampled but not gauged due to access issues (downhole pumps) during the May 2014 event.

A total of 128 wells from the shallow and deep zones were gauged in the November 2014 event, and 61 wells were sampled. Wells MW005 was underwater and inaccessible and GOPWW2 was destroyed, and water well WoodellWW was sampled but not gauged due to access issues (downhole pumps) during the November 2014 event.

Shallow Zone Wells

Subsequent to gauging, the shallow zone wells were purged using EPA approved low-flow sampling methodology. Geochemical water quality parameters including temperature, pH, dissolved-oxygen, oxidation-reduction potential, and conductivity were recorded at approximately five minute intervals during purging activities. When three consecutive readings indicated stabilization of parameters (variation <10%), the groundwater was considered

representative of formation water and groundwater samples were collected. A summary of the shallow well geochemical parameters for the 2014 semi-annual monitoring events are presented in Table 2.

Deep Zone Wells

Subsequent to gauging, deep zone wells were purged using a submersible pump set near the bottom of the wells, within the screened interval pursuant to low-flow guidelines. Geochemical water quality parameters including temperature, pH, and conductivity were recorded at approximately five minute intervals during purging activities. When three consecutive readings indicated stabilization of parameters (variation <10%), the groundwater was considered representative of formation water and groundwater samples were collected via the discharge hose. A summary of the deep well geochemical parameters for the 2014 semi-annual monitoring events is presented in Table 2.

Laboratory Analysis

All groundwater samples collected were labeled, placed on ice in an insulated cooler, and delivered to Xenco Laboratories (Xenco) located in Odessa, Texas, for analysis of the following:

- BTEX by EPA Method 8021B
- Total Petroleum Hydrocarbons (TPH) by EPA Method 8015M as gasoline range hydrocarbons
- TPH by EPA Method 8015M as diesel range hydrocarbons;
- Dissolved Metals (arsenic, chromium, iron, manganese) by EPA Method 6010B;
- Hexavalent chromium by EPA Method 7196A;
- Chlorides by EPA Method 300; and
- Total Dissolved Solids (TDS) by EPA Method 2540C.

Purge Water

Purge water generated during the sampling events were containerized onsite in a labeled polyethylene tank and subsequently managed by a third-party subcontractor at an NMOCD-permitted disposed facility.

3.3. Groundwater Analytical Results

Analytical results for both semi-annual 2014 groundwater monitoring events are summarized in Tables 3 through 8. Certified lab reports, chain of custodies and data validation reports are provided in Appendix C. Constituent concentration data shown in bold print indicate detections above the laboratory reporting limit. Shaded/highlighted detections represent concentrations exceeding the NMWQCC regulatory standards. Graphs of constituent concentration through

time for benzene, chromium and hexavalent chromium are provided in Appendix D. Chromium and hexavalent chromium isoconcentration maps in the shallow and deep zones for May and November 2013 are presented as Figures 7 through 14. BTEX isoconcentration maps for the shallow and deep zones in May and November 2014 are presented as Figures 15 through 18. Chloride isoconcentration maps for the shallow and deep zones for May and November 2014 are presented as Figures 19 through 22. In addition, geological cross-sections (strike and dip) depicting chloride, chromium and BTEX concentrations for May and November 2014 are presented as Figures 23, 24, 25 and 26.

3.3.1 First 2014 Semi-Annual Event (May)

The following tables present the number of wells with: 1) detections of select analytes, and 2) detections of those analytes which exceeded the NMWQCC Standard during the May 2014 monitoring event. In addition, the minimum and maximum detected concentrations for each COC during the monitoring event are also provided.

Shallow Wells – May 2014	Chromium	Hexavalent Chromium
Number of Detections	27	20
Exceedances Above Regulatory Limit	12	9
Minimum Concentration (mg/L) Well ID	0.000905 J MW036	0.0081 J MW059
Maximum Concentration (mg/L) Well ID	3.83 MW095	3.76 MW095

Deep Wells – May 2014	Chromium	Hexavalent Chromium
Number of Detections	68	37
Exceedances Above Regulatory Limit	25	22
Minimum Concentration (mg/L) Well ID	0.000825 J MW057SA	0.0071 J MW063A
Maximum Concentration (mg/L) Well ID	0.735 MW051SA	0.753 MW051SA

Shallow Wells – May 2014	Benzene	Toluene	Ethylbenzene	Total Xylenes
Number of Detections	5	2	4	3
Exceedances Above Regulatory Limit	4	0	0	1
Minimum Concentration (mg/L) Well ID	0.00282 MW038	0.00116 J IW001	0.0606 MW036	0.0254 MW046
Maximum Concentration (mg/L) Well ID	0.996 MW037	0.00128 J MW036	0.117 MW046	0.636 MW036

Deep Wells – May 2014	Benzene	Toluene	Ethylbenzene	Total Xylenes
Number of Detections	1	0	0	0
Exceedances Above Regulatory Limit	0	0	0	0
Minimum Concentration (mg/L) Well ID	0.0021 MW050SA	N/A	N/A	N/A
Maximum Concentration (mg/L) Well ID	0.0021 MW050SA	N/A	N/A	N/A

Shallow Wells – May 2014	Chloride
Number of Detections	52
Exceedances Above Regulatory Limit	38
Minimum Concentration (mg/L) Well ID	106 MW031
Maximum Concentration (mg/L) Well ID	2,360 MW010

Deep Wells – May 2014	Chloride
Number of Detections	91
Exceedances Above Regulatory Limit	73
Minimum Concentration (mg/L) Well ID	48.9 MW014A
Maximum Concentration (mg/L) Well ID	3,410 MW015A

3.3.2 Second 2014 Semi-Annual Event (November)

The following tables present the number of wells with: 1) detections of select analytes, and 2) detections of those analytes which exceeded the NMWQCC Standard during the November 2014 monitoring event. In addition, the minimum and maximum detected concentrations for each COC during the monitoring event are also provided.

Shallow Wells – November 2014	Chromium	Hexavalent Chromium
Number of Detections	20	12
Exceedances Above Regulatory Limit	5	5
Minimum Concentration (mg/L) Well ID	0.00148 J MW030	0.0057 J MW058
Maximum Concentration (mg/L) Well ID	3.92 MW095	3.67 MW095

Deep Wells – November 2014	Chromium	Hexavalent Chromium
Number of Detections	25	11
Exceedances Above Regulatory Limit	8	8
Minimum Concentration (mg/L) Well ID	0.000878 J MW019A	0.0096 J MW020A
Maximum Concentration (mg/L) Well ID	0.492 MW048SA	0.469 MW048SA

Shallow Wells – November 2014	Benzene	Toluene	Ethylbenzene	Total Xylenes
Number of Detections	0	0	0	0
Exceedances Above Regulatory Limit	0	0	0	0
Minimum Concentration (mg/L) Well ID	N/A	N/A	N/A	N/A
Maximum Concentration (mg/L) Well ID	N/A	N/A	N/A	N/A

Deep Wells – November 2014	Benzene	Toluene	Ethylbenzene	Total Xylenes
Number of Detections	0	0	0	0
Exceedances Above Regulatory Limit	0	0	0	0
Minimum Concentration (mg/L) Well ID	N/A	N/A	N/A	N/A

Deep Wells – November 2014	Benzene	Toluene	Ethylbenzene	Total Xylenes
Maximum Conc. (mg/L) Well ID	N/A	N/A	N/A	N/A

Shallow Wells – November 2014	Chloride
Number of Detections	23
Exceedances Above Regulatory Limit	13
Minimum Concentration (mg/L) Well ID	85.3 MW058
Maximum Concentration (mg/L) Well ID	1,990 MW010

Deep Wells – November 2014	Chloride
Number of Detections	38
Exceedances Above Regulatory Limit	25
Minimum Concentration (mg/L) Well ID	11.6 MW014A
Maximum Concentration (mg/L) Well ID	2,280 MW021A

Section 4.0 Groundwater Investigation Activities

In 2014 no groundwater monitor wells were installed at the Site, and 14 monitor wells were plugged and abandoned. Groundwater monitoring regarding the two chromium remediation pilot tests initiated in September 2012 to further evaluate two alternative methods for fixation of dissolved hexavalent chromium at the Site was completed in October 2013. Four deep groundwater monitor wells were installed in June 2012 in the southeast corner of the facility property, three in the vicinity of deep well MW-007A (MW-096, MW-097, IW-029) and one in the vicinity of deep well MW-009A (IW-030). The ultimate purpose of these pilot tests was to develop a long term remedial strategy that will reduce chromium contamination at the Site to below regulatory standards. The primary objectives of the tests were to determine the effects of sodium dithionite and soy lactate (as an emulsified vegetable oil (EVO) solution) as potential reagents in lowering hexavalent chromium concentrations, and evaluate optimal injection characteristics for these potential reagents. The pilot tests were approved by NMOCD and detailed in renewed Discharge Permit #GW-004. The respective well locations are presented in Figure 2. Results from the pilot tests were submitted to the NMOCD in a separate report in March 2014.

soil, and chloride soil concentrations. A separate report, summarizing the chloride soil investigation results, was submitted NMOCD in February 2014.

4.1 Well Plugging and Abandonment

CEMC was requested by Targa in July 2013, due to the pending construction of two compressors on the north side of the facility, that deep well MW-022A be plugged and abandoned. Under Discharge Permit Condition 2.G.3 (GW-004) specifying that the “Owner/Operator shall request by certified mail” approval to P&A a monitor well, CEMC submitted a certified mail request to NMOCD to P&A well MW-022A. After reviewing the 2012 Annual Groundwater Report, Mr. Glenn Von Gonten of NMOCD agreed that MW022A was a non-essential monitor well and could be abandoned in accordance with Office of State Engineer procedures. NMOCD also agreed that a replacement monitor well was not necessary. CRA P&A’d deep well MW-022A in accordance with Office of State Engineer procedures on July 22, 2013.

CEMC also submitted a proposed well P&A request to the NMOCD on August 21, 2013 under the terms of Discharge Permit GW-004, for the former Chevron Eunice North Gas Plant facility. After reviewing the monitoring data provided to NMOCD in the 2012 Annual Groundwater Monitoring Report, CRA concluded that 15 monitor wells were either non-essential to the monitoring of the main groundwater COC plumes (hexavalent chromium and chloride) or were duplicates of nearby wells installed in the same groundwater interval. Seven shallow wells (MW-021, MW-025, MW-028, MW-029, MW-033, MW-035, RW-002) and eight deep wells (MW-018A, MW-64SA, MW-77SA, MW-80SA, MW-81SA, MW-82SA, MW-92SA, IW-020) were proposed for plugging and abandonment. A well was considered non-essential regarding the upgradient or downgradient contaminant plume boundary if there are other wells in the area that define the plume boundary (detection and non-detection well pairs). An interplume well was considered for P&A if other similar wells were present with contaminant levels comparable to those of the identified P&A well. Also, four wells were identified that are duplicates of nearby deep wells.

Fourteen monitor wells were plugged and abandoned (P&A’d) in 2014. Under the terms of Discharge Permit Condition 2.G.3 (GW-004) and with NMOCD approval, CEMC submitted a proposed well plugging and abandonment (P&A) request to the NMOCD on August 21, 2013 under the terms of Discharge Permit GW-004, for the former Chevron Eunice North facility. NMOCD approved this P&A request in early November 2013. As the 15 wells were deemed non-essential and approved for P&A, these wells were not included in the second half 2013 groundwater monitoring event and sampling activities. Just prior to this NMOCD approval, The City of Eunice Mayor, Mr. Matt White, requested to CRA and CEMC that one of the 15 wells to be P&A’d, shallow well MW-033 (located on the northwest corner of Avenue Q and 15th

Streets), be P&A'd due to pending utility construction. CRA P&A'd shallow well MW-033 in accordance with Office of State Engineer procedures on November 11, 2013. The remaining 14 P&A approved wells were plugged and abandoned in March 2014.

The Plugging Records for the fourteen wells P&A'd in 2014 are included in Appendix E.

4.2 Groundwater Assessment Results

Monitoring of groundwater conditions after initiation of the two September 2012 pilot injection tests was completed in October 2013. A Review of Pilot Test Data Report was submitted to NMOCD for review in March 2014. The results of the CRA pilot study showed that the substitution of sodium dithionite for calcium polysulfide eliminated the well clogging observed during the Stantec pilot study without compromising chromium treatment. The CRA studies also showed that both sodium dithionite and emulsified vegetable oil (EVO) were effective treatments for the conversion of CrVI+ to CrIII+ and the subsequent precipitation of CrIII+ from groundwater. Both reagents treated chromium within the area of the injection wells to below the NMWQCC standard but did not treat groundwater more than 15 feet from the injection well. Based on CRA experience with in situ treatment, fifteen feet is a large radius of influence for an in situ injection, and treatment at this distance was not expected.

The doses of the reagents used in the pilot study were 5 percent sodium dithionite and 10 percent EVO. They were shown to provide effective treatment; however, based on the nutrient limitation observed in Pilot Study #2, the addition of nitrogen and phosphorus nutrients along with the EVO is recommended. Sodium dithionite is a less expensive reagent than EVO and reduced the dissolved chromium concentrations to below the NDWQCC standard for 1 month; however, EVO reduced the dissolved chromium concentrations for 3 months and sustained the treatment to concentrations below the NMWQCC standard for the remaining 9 months of the study period. Based on CRA experience with EVO, the injection is expected to sustain the reducing conditions that would favor chromium precipitation for up to 2 years. Precipitated chromium is expected to remain fixed long term. Therefore, for fast effective treatment of the source area, sodium dithionite would be the recommended reagent; however, for sustained treatment of an area where migration of additional chromium containing groundwater is expected, EVO would be the recommended reagent. The migration of additional chromium containing groundwater into the area was observed during the sodium dithionite study, indicating that the chosen remedy would need to accommodate the migration of untreated groundwater from upgradient into the treatment area. Therefore, EVO would be the recommended reagent for this Site.

Section 5.0 Quality Assurance/Quality Control (QA/QC) Evaluation

To confirm sample quality and reproducibility, eleven field duplicate samples (shown below) were collected during the May 2014 semi-annual monitoring event.

Duplicate Sample ID	Parent Sample ID
DUP 1	MW-8M
DUP 2	MW-13A
DUP 3	MW-24A
DUP 4	MW-61
DUP 5	MW-76SA
DUP 6	MW-48SA
DUP 7	MW-41A
DUP 8	IW-8
DUP 9	IW-23
DUP 10	MW-45
DUP 11	MW-89

During the November 2014 semi-annual monitoring event, five field duplicate samples (shown below) were collected.

Duplicate Sample ID	Parent Sample ID
DUP 1	MW-10
DUP 2	MW-58
DUP 3	MW-63A
DUP 4	MW-73SA
DUP 5	MW-54SA

Samples were analyzed for BTEX by EPA Method 8021B, TPH as gasoline and diesel range hydrocarbons by EPA Method 8015M, dissolved metals (arsenic, chromium, iron, manganese) by EPA Method 6010B, hexavalent chromium by EPA Method 7196A, chlorides by EPA Method 300 and TDS by EPA Method 2540C. Certified groundwater laboratory reports received from Lancaster Laboratories (Lancaster) for the both sampling event were reviewed by a CRA analytical chemist for laboratory and field method QA/QC. Certified copies of laboratory analytical results are included in Appendix C. No significant deviations were encountered in the sample results for duplicate constituents, the data produced by Lancaster were found to exhibit acceptable levels of accuracy and precision.

Section 6.0 Operation and Maintenance Activities

Light non-aqueous phase liquids (LNAPLs) were not observed in either MW005 or MW006 from the 2011 through 2013 calendar years although LNAPL was observed and recovered in previous years; however, in 2014 LNAPL was observed in MW006. As a result of the initial absence of LNAPL at the Site, the renewed Discharge Permit request did not include LNAPL recovery activities. However, ongoing groundwater monitoring activities will continue to include LNAPL observations and recovery when present.

LNAPL was recovered from MW006 by hand bailing methods from September 2014 through December 2014. Approximately 22.0 gallons of LNAPL were recovered during this time (see Table 9).

Section 7.0 Findings

Based on groundwater monitoring activities performed at the Site, CRA presents the following summary:

- Groundwater at the Site is monitored on a semi-annual basis with a network of 151 wells;
- Shallow Zone Wells: Depth to water measurements ranged from 37.74 feet in MW018 to 67.2 feet in MW068 below TOC during the May 2014 gauging event and from 37.60 feet in MW018 to 67.09 feet in MW068 below TOC during the November 2014 gauging event. The average gradient observed in the shallow zone in 2013 was 0.0031 feet/foot to the northeast;
- Deep Zone Wells: Depth to water measurements ranged from 37.81 feet in MW019A to 59.32 feet in MW070A below TOC in May 2014 and from 37.09 feet in MW019A to 65.8 feet in IW011 below TOC in November 2014. The average gradient observed in the deep zone in 2013 was 0.0054 feet/foot to the northeast;
- LNAPL was not detected in any wells except MW006 during the 2014 calendar year;
- Total chromium concentrations exceeded the NMWQCC standards in 12 shallow wells and 25 deep wells during the May 2014 groundwater monitoring event;
- Total chromium concentrations exceeded the NMWQCC standards in 5 shallow wells and 8 deep wells during the November 2014 groundwater monitoring event;
- Hexavalent chromium concentrations exceeded the NMWQCC standards in 9 shallow wells and 22 deep wells during the May 2014 groundwater monitoring event;
- Hexavalent chromium concentrations exceeded the NMWQCC standards in 5 shallow wells and 8 deep wells during the November 2014 groundwater monitoring event;

- Benzene concentrations exceeded the NMWQCC standards in 4 shallow wells and in zero deep wells during the May 2014 groundwater monitoring event;
- Benzene concentrations did not exceed the NMWQCC standards in any shallow or deep wells during the November 2014 groundwater monitoring event;
- Chloride concentrations exceeded NMWQCC standards in 38 shallow wells and 73 deep wells during the May 2014 groundwater monitoring event;
- Chloride concentrations exceeded NMWQCC standards in 13 shallow wells and 25 deep wells during the November 2014 groundwater monitoring event;
- Monitoring of groundwater conditions after initiation of the two September 2012 pilot injection tests located in the southeast corner of the facility property (approved by NMOCD and detailed in renewed Discharge Permit #GW-004) was completed in October 2013. Groundwater analytical and pilot test results and recommendations were summarized and submitted to NMOCD in March 2014.
- Based on the results of chloride soil sampling and geophysical investigation performed in 2013, the reported sprinkler system did not appear to have been a source of chloride soil contamination to the extent it was reported in facility soils. The investigation for potential chloride source(s) within facility boundaries did not identify such a source or identify significantly elevated concentrations of chlorides in site soils. A summary Chloride Soil Investigation Report was submitted to NMOCD in January 2014.
- CEMC performed the plugging and abandonment of the remaining 14 P&A approved wells in March 2014.

Section 8.0 Recommendations and Future Activities

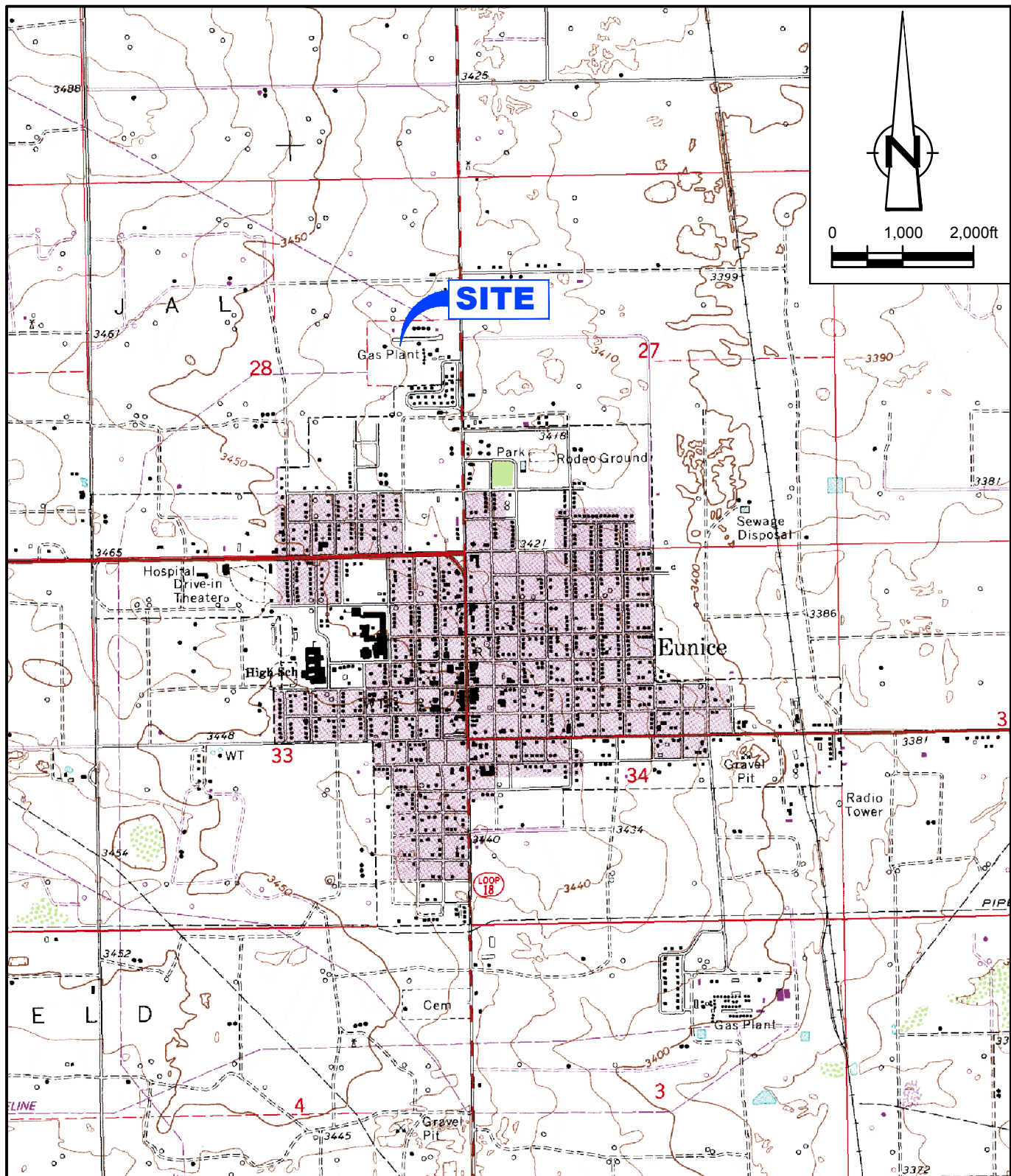
Based upon the summary and conclusions presented in this report, the following is recommended:

- Based on the March 2014 evaluation of groundwater chromium reduction options at the Site using the results of the two recently completed chromium remediation pilot studies, develop a Hexavalent Chromium Abatement Plan for submission to NMOCD, utilizing emulsified vegetable oil (EVO) as the most effective chromium treatment approach;
- Revise the current Discharge Permit GW-004 (set to expire on March 16, 2016) to include any necessary language referencing the proposed Abatement Plan activities, additional monitor well installations, and groundwater monitoring requirements; and
- Complete the 2015 semi-annual groundwater sampling events during May and November 2015. Groundwater samples will be collected from all wells that do not contain measureable LNAPL.

Future Site activities planned in 2015 will include:

- Installation of seven additional monitor wells to complete the horizontal delineation of chloride-impacted groundwater; and
- Continue development of the overall closure approaches necessary under NMOCD regulations for the Site, including application of cost-effective alternatives indicated in recent and ongoing site assessment and pilot testing activities.

Figures

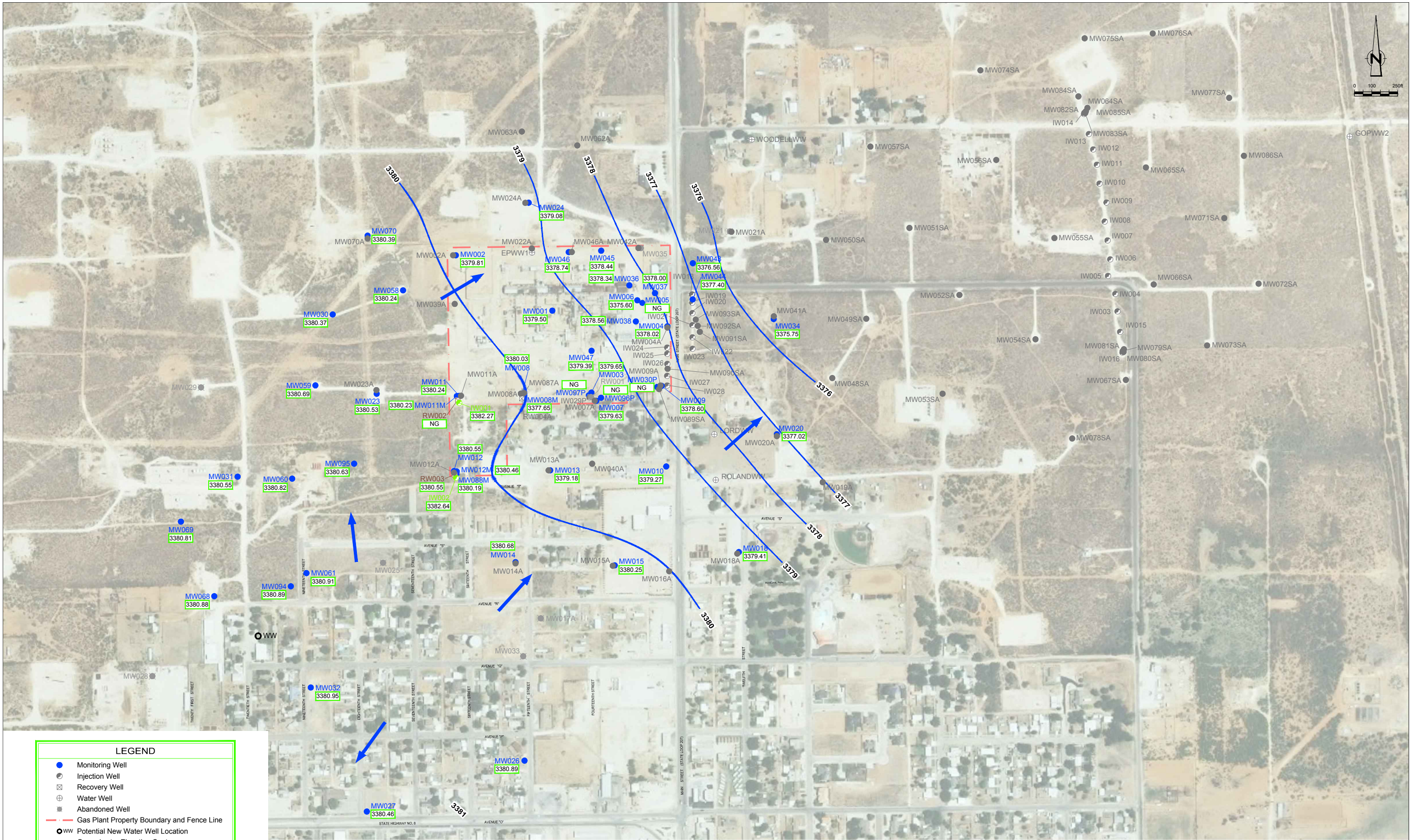


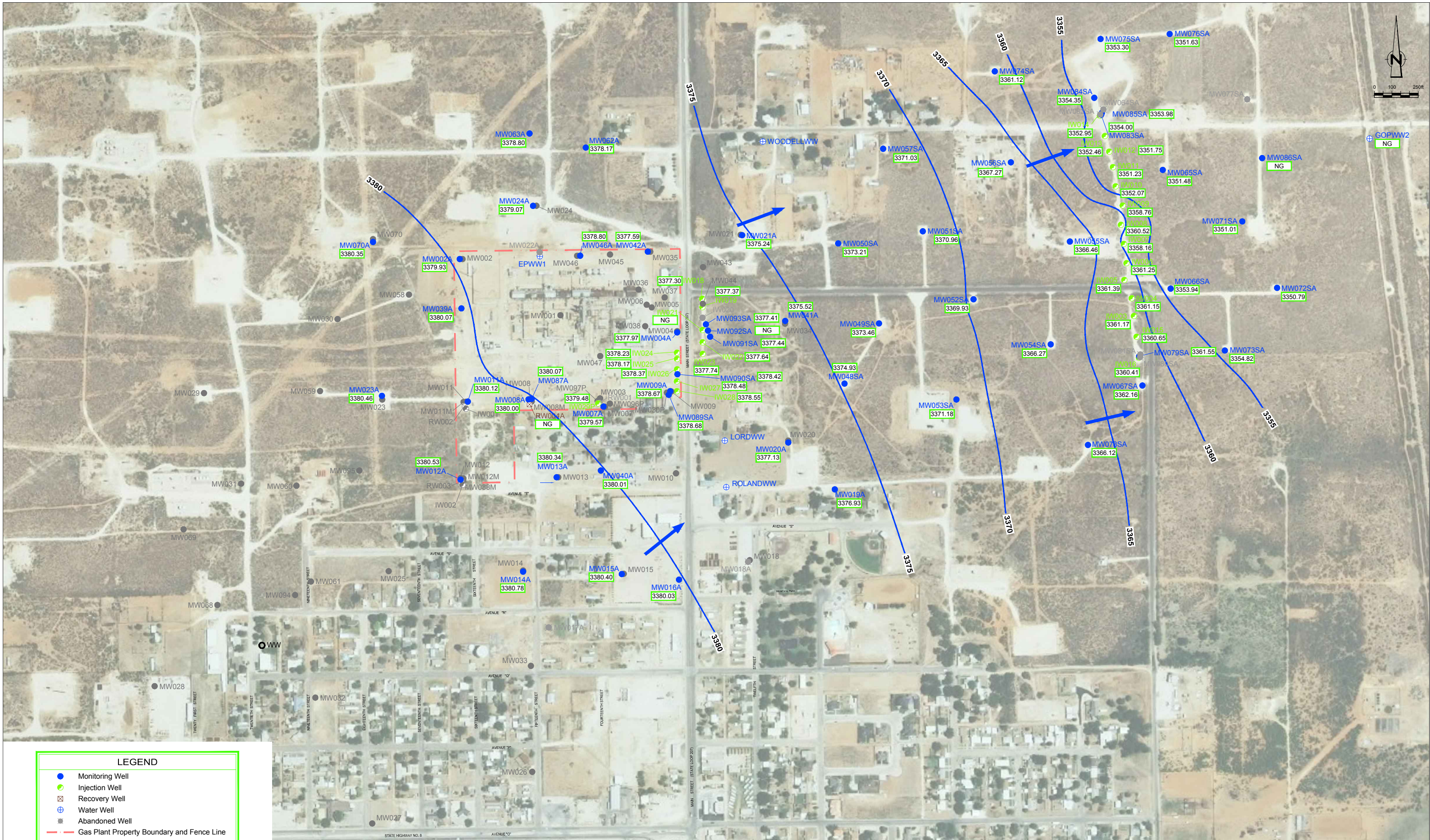
RE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS, "EUNICE AND RATTLESNAKE CANYON NEW MEXICO".

figure 1

SITE LOCATION MAP
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company







LEGEND

Monitoring Well

Injection Well

Recovery Well

Water Well

Abandoned Well

Potential New Water Well Location

Groundwater Elevation Contour (Interval = 5.00 ft)

Elevation of Groundwater (ft)

Direction Of Groundwater Flow

Not Gauged

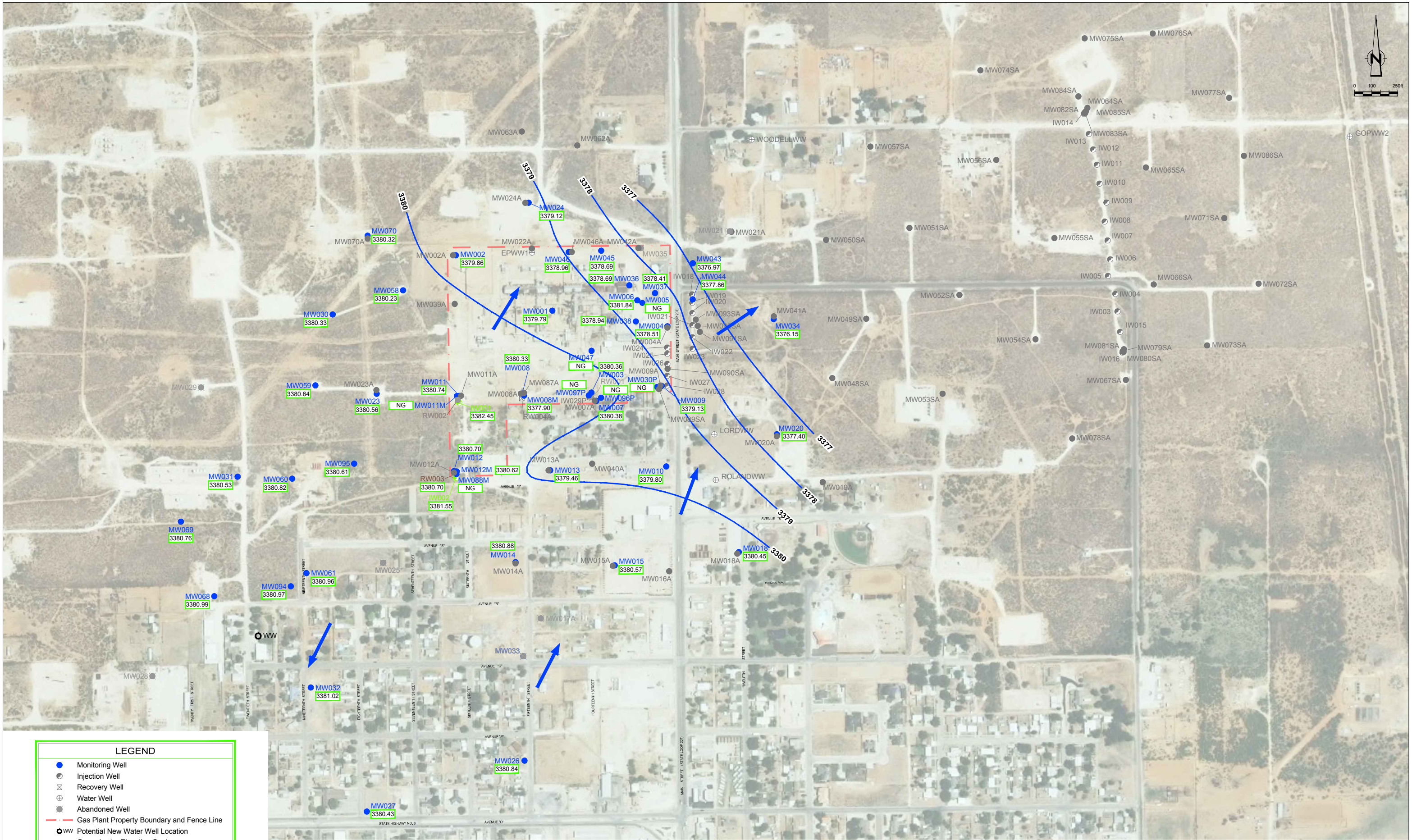
073018-2014(011)GN-DL04 FEB 19/2015

RE: 2009 NAIP Aerial Photograph.

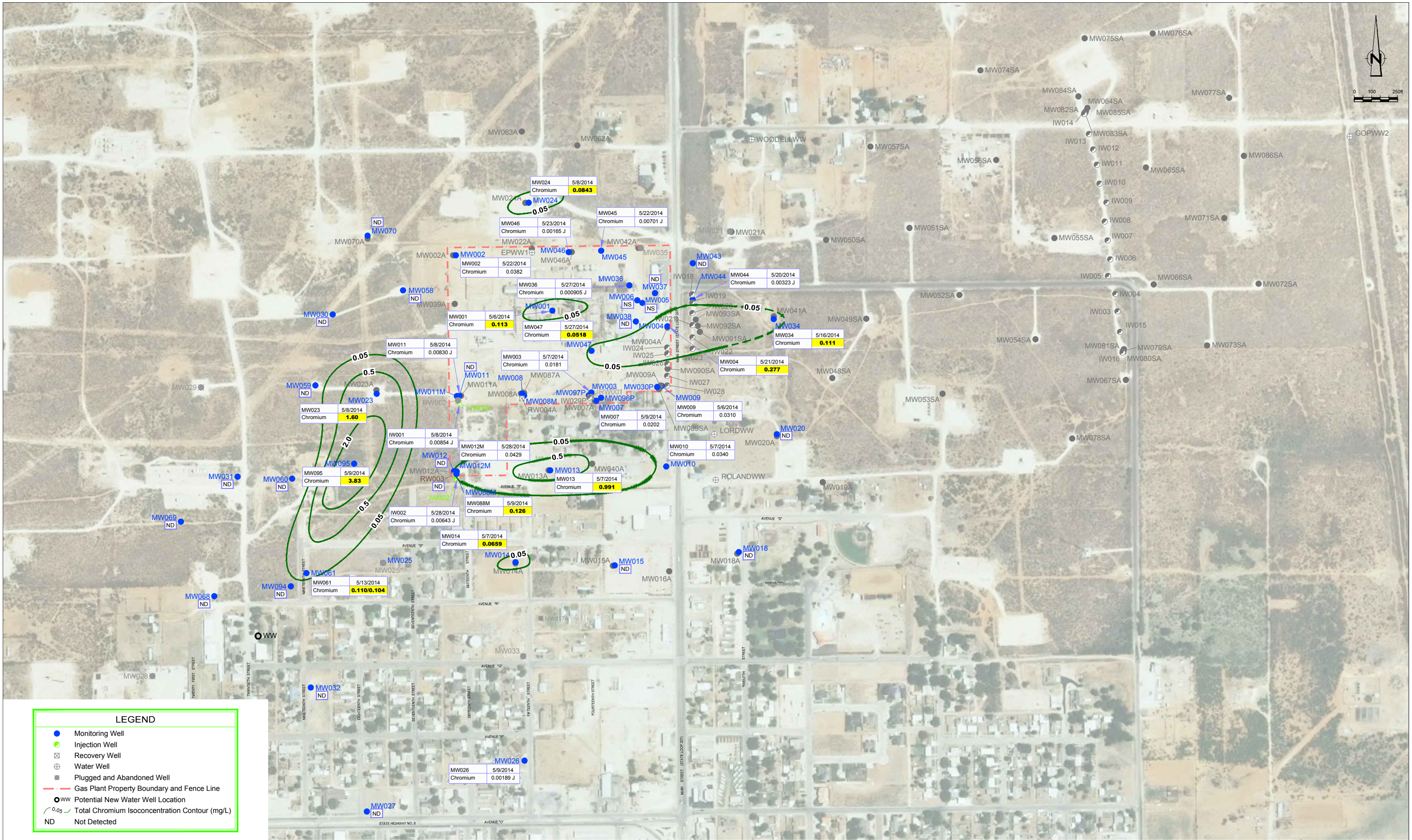
NOTE:

1. Groundwater elevations gauged between May 5, 2014.

figure 4
GROUNDWATER GRADIENT MAP
DEEP WELLS - MAY 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company







LEGEND

●

Monitoring Well

●

Injection Well

⊗

Recovery Well

⊕

Water Well

■

Plugged and Abandoned Well

⊕

Potential New Water Well Location

—

Gas Plant Property Boundary and Fence Line

0.05

Total Chromium Isoconcentration Contour (mg/L)

ND

Not Detected

Sample ID	MW061	5/13/2014	Sample Date
Constituent	Chromium	0.1100.104	Result (mg/L)
			Parent Result (mg/L)

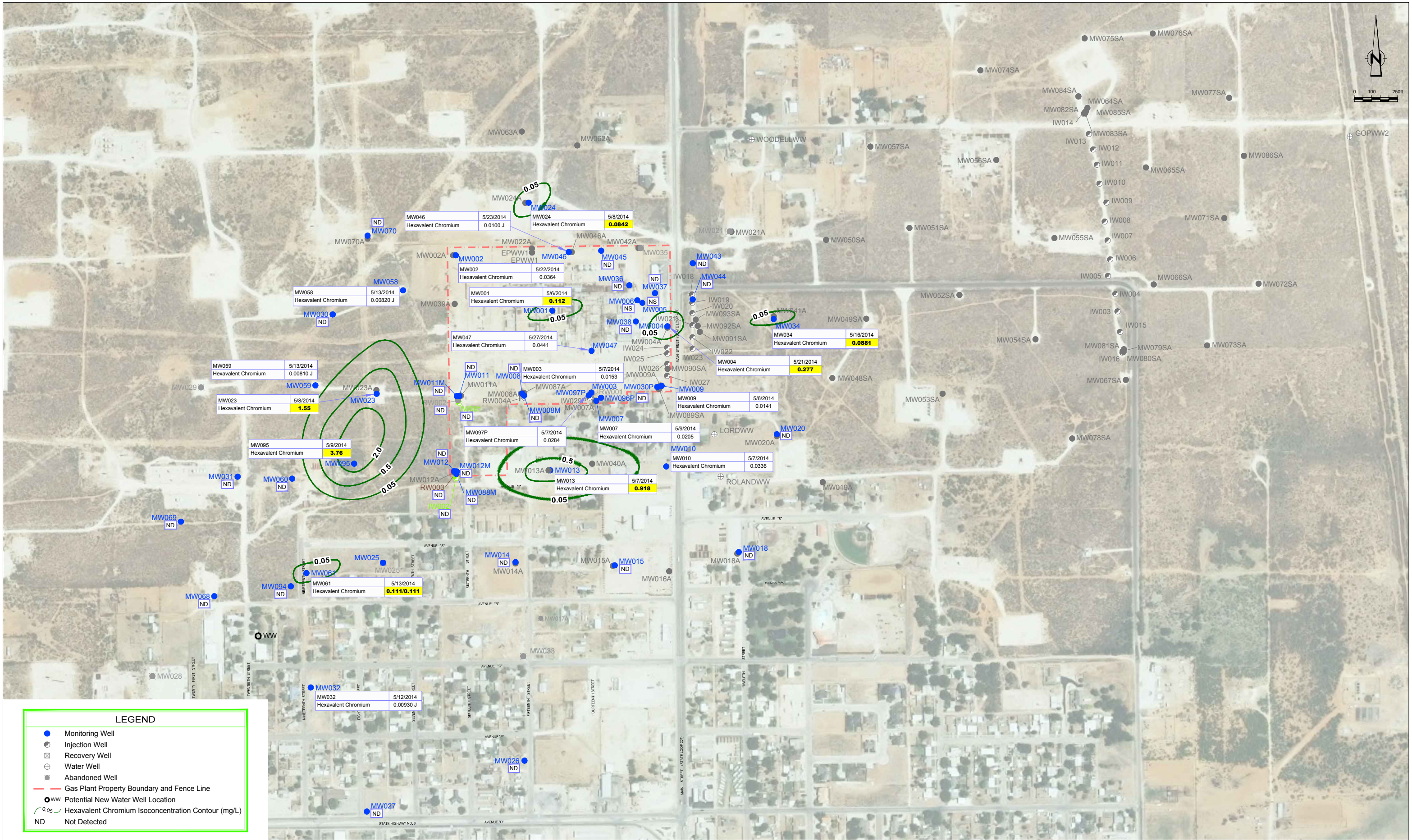
RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Total Chromium of 0.05 mg/L.

figure 7
TOTAL CHROMIUM ISOCONCENTRATION MAP
SHALLOW WELLS - MAY 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company





LEGEND			
●	Monitoring Well		
⊙	Injection Well		
⊠	Recovery Well		
⊕	Water Well		
⊖	Abandoned Well		
---	Gas Plant Property Boundary and Fence Line		
⊙	Potential New Water Well Location		
○	Hexavalent Chromium Isoconcentration Contour (mg/L)		
ND	Not Detected		

Sample ID	MW061	5/13/2014	Sample Date
Constituent	Hexavalent Chromium	0.1110.111	Result (mg/L)
			Parent Result (mg/L)

RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Hexavalent Chromium of 0.05 mg/L.

figure 8
HEXAVALENT CHROMIUM ISOCONCENTRATION MAP
SHALLOW WELLS - MAY 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



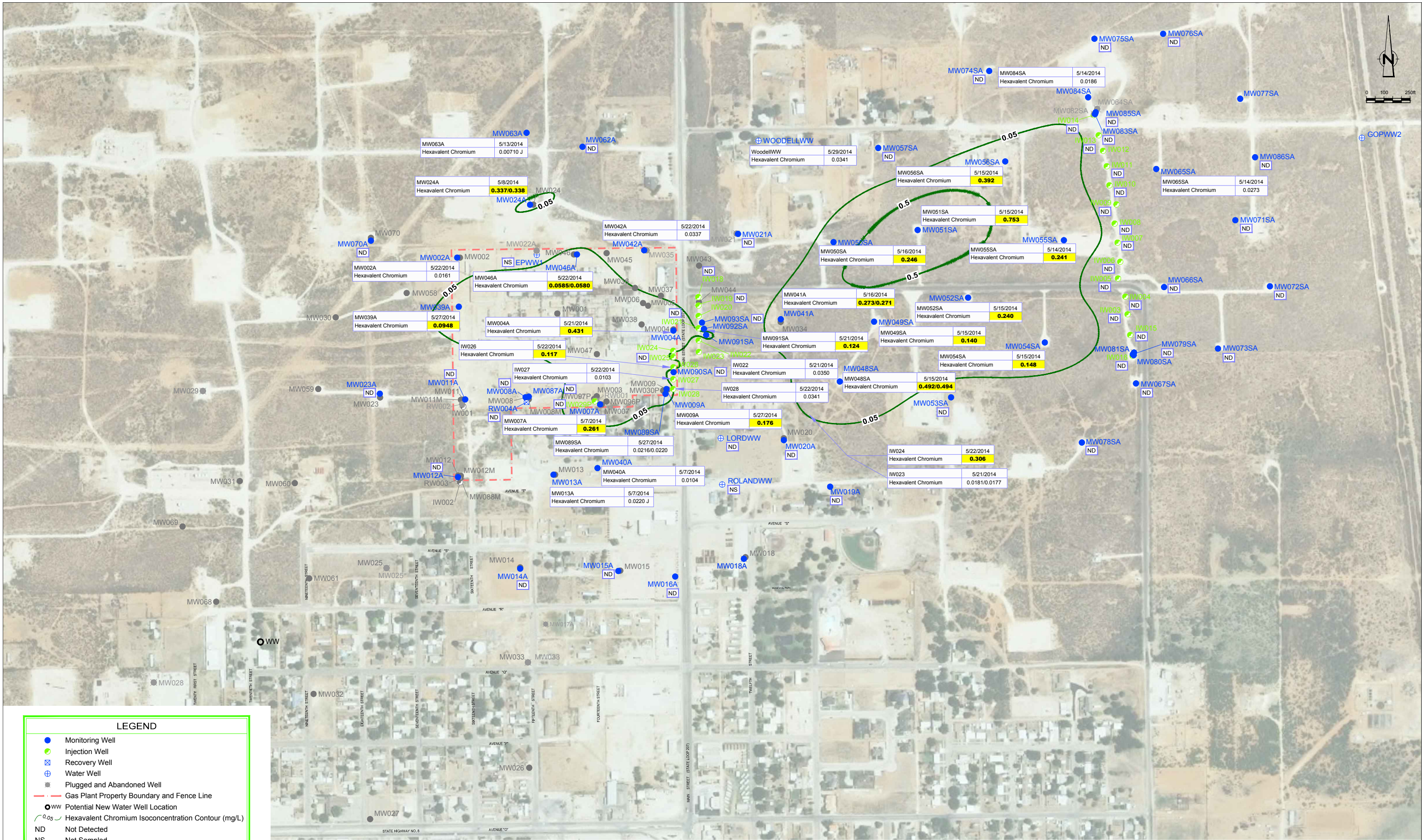


NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Total Chromium of 0.05 mg/L.

figure 9

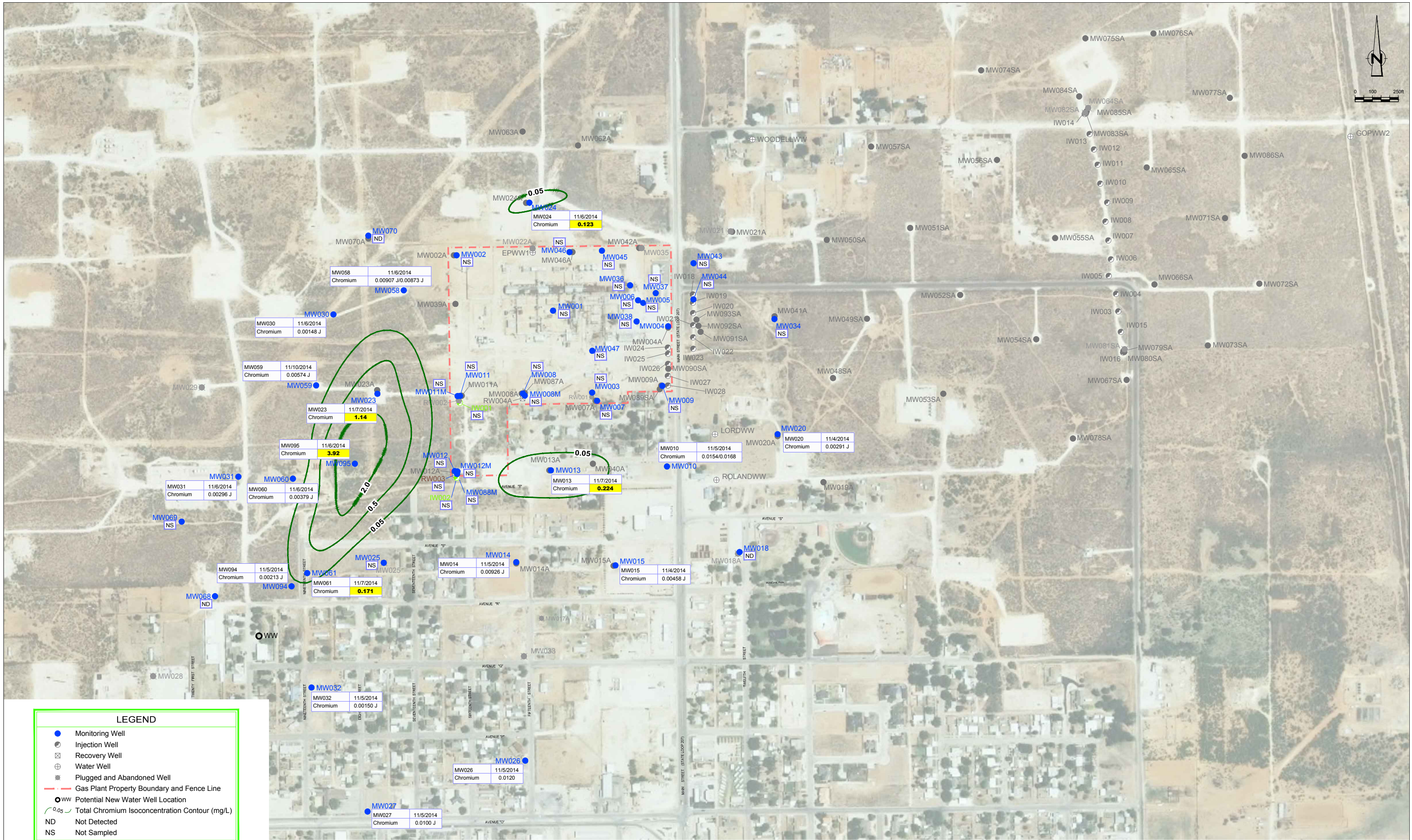
TOTAL CHROMIUM ISOCONCENTRATION MAP
DEEP WELLS - MAY 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

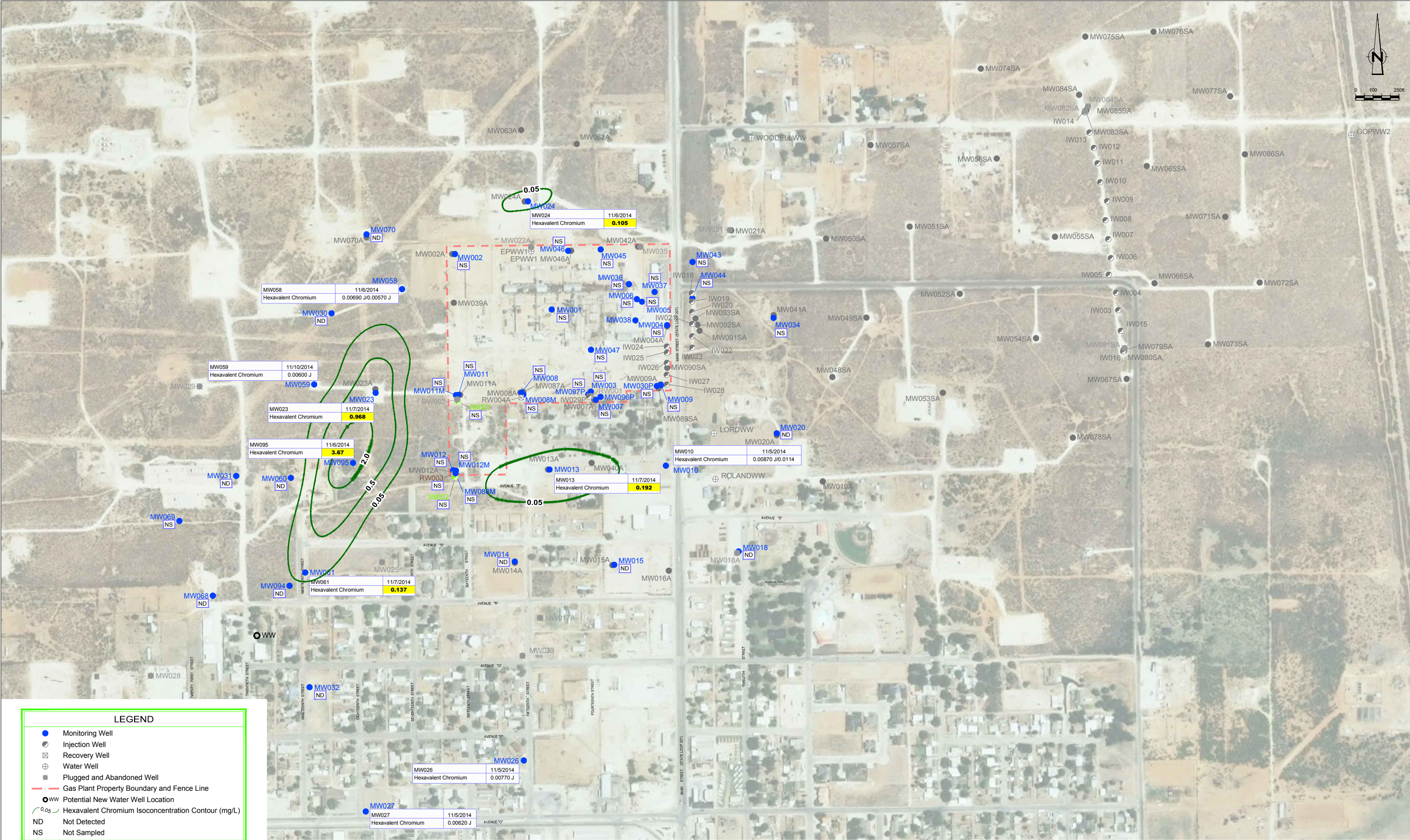


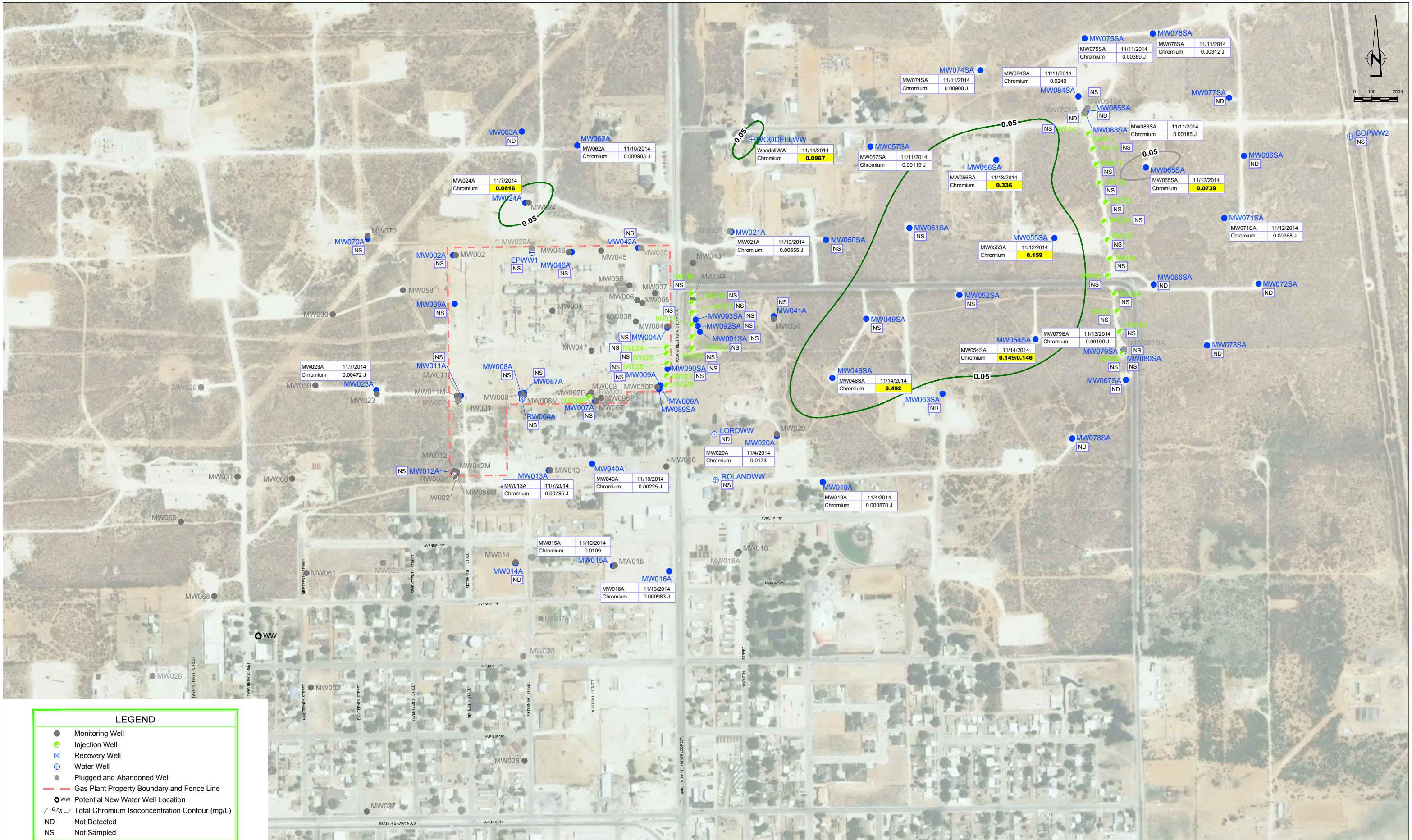
Sample ID	MW048SA	5/15/2014	Sample Date
Constituent	Hexavalent Chromium	0.492/0.494	Result (mg/L)
			Parent Result (mg/L)



figure 10
HEXAVALENT CHROMIUM ISOCONCENTRATION MAP
DEEP WELLS - MAY 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company







LEGEND

●

Monitoring Well

●

Injection Well

⊕

Recovery Well

⊕

Water Well

■

Plugged and Abandoned Well

○

Potential New Water Well Location

—

Gas Plant Property Boundary and Fence Line

0.05

Total Chromium Isoconcentration Contour (mg/L)

ND

Not Detected

NS

Not Sampled

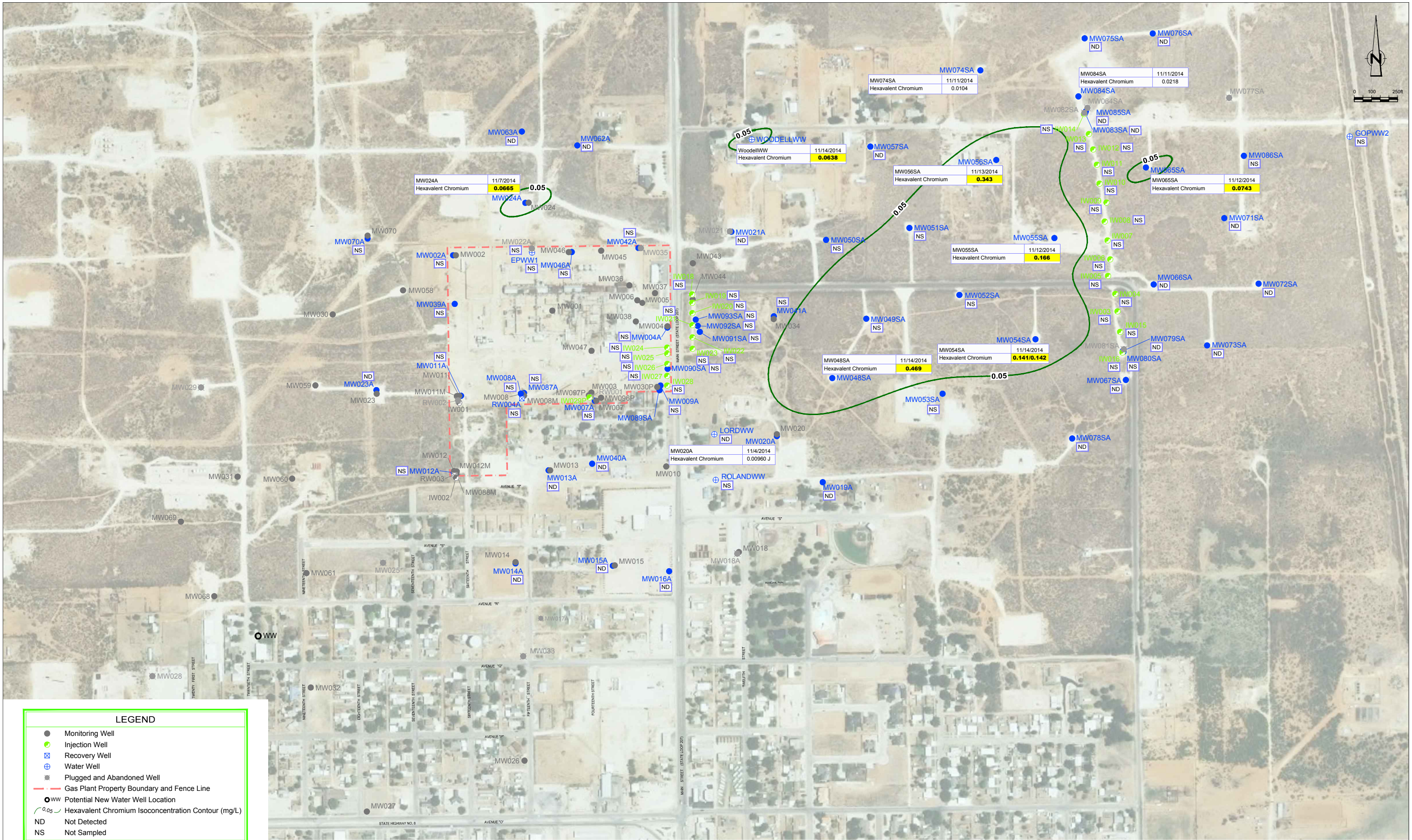
Sample ID	MW054SA	11/14/2014	Sample Date
Constituent	Chromium	0.149/0.146	Result (mg/L)
			Parent Result (mg/L)

RE: 2009 NAIP Aerial Photograph.

NOTES:

- All results in mg/L.
- Highlighted cells indicate concentration exceeds NMWQCC Standards for Total Chromium of 0.05 mg/L.

figure 13
TOTAL CHROMIUM ISOCONCENTRATION MAP
DEEP WELLS - NOVEMBER 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



LEGEND

●

Monitoring Well

●

Injection Well

⊕

Recovery Well

⊕

Water Well

■

Plugged and Abandoned Well

—

Gas Plant Property Boundary and Fence Line

○

Potential New Water Well Location

0.05

Hexavalent Chromium Isoconcentration Contour (mg/L)

ND

Not Detected

NS

Not Sampled

Sample ID	MW054SA	11/14/2014	Sample Date
Constituent	Hexavalent Chromium	0.141/0.142	Result (mg/L)
			Parent Result (mg/L)

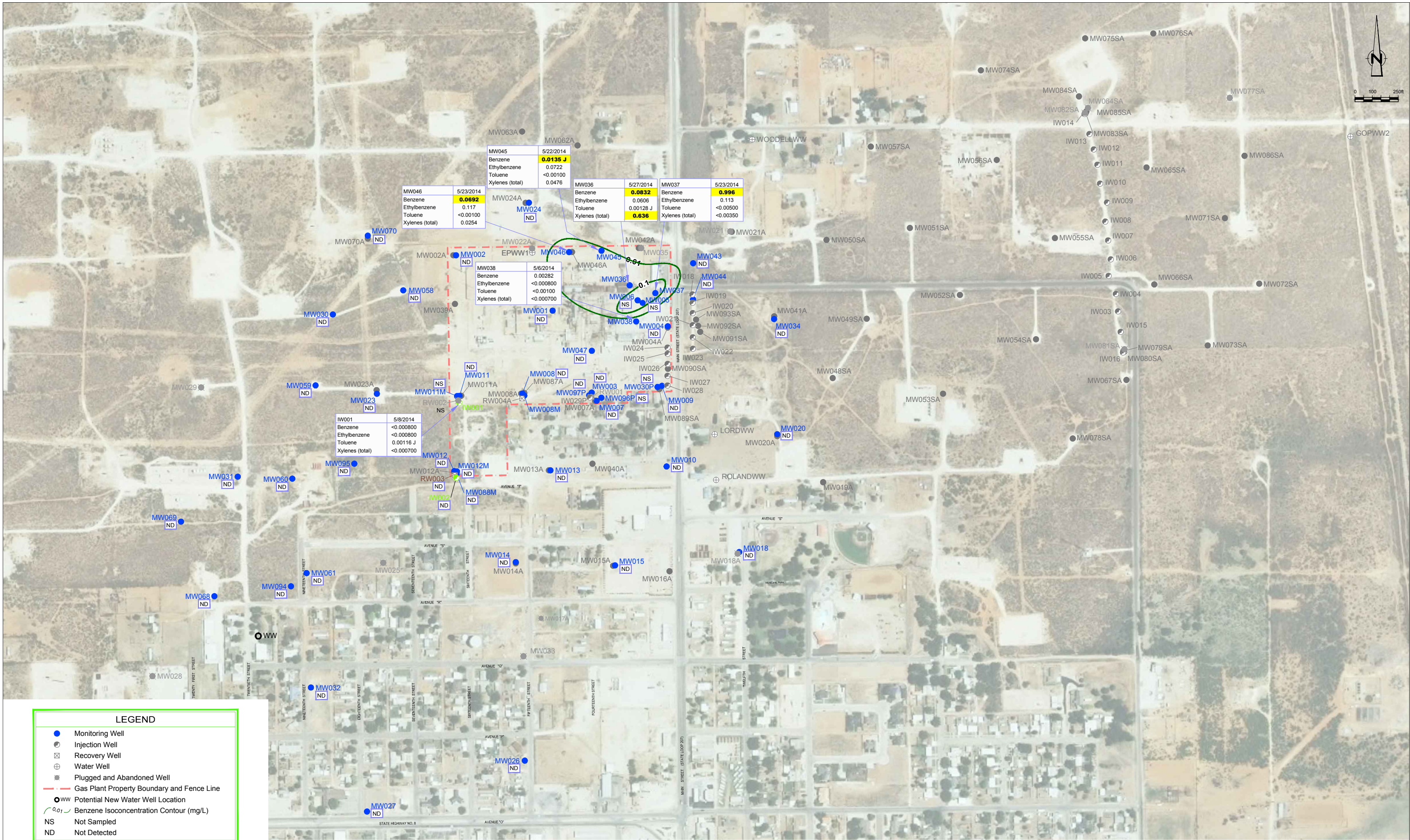


RE: 2009 NAIP Aerial Photograph.

NOTES:

- All results in mg/L.
- Highlighted cells indicate concentration exceeds NMWQCC Standards for Hexavalent Chromium of 0.05 mg/L.

figure 14
HEXAVALENT CHROMIUM ISOCONCENTRATION MAP
DEEP WELLS - NOVEMBER 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



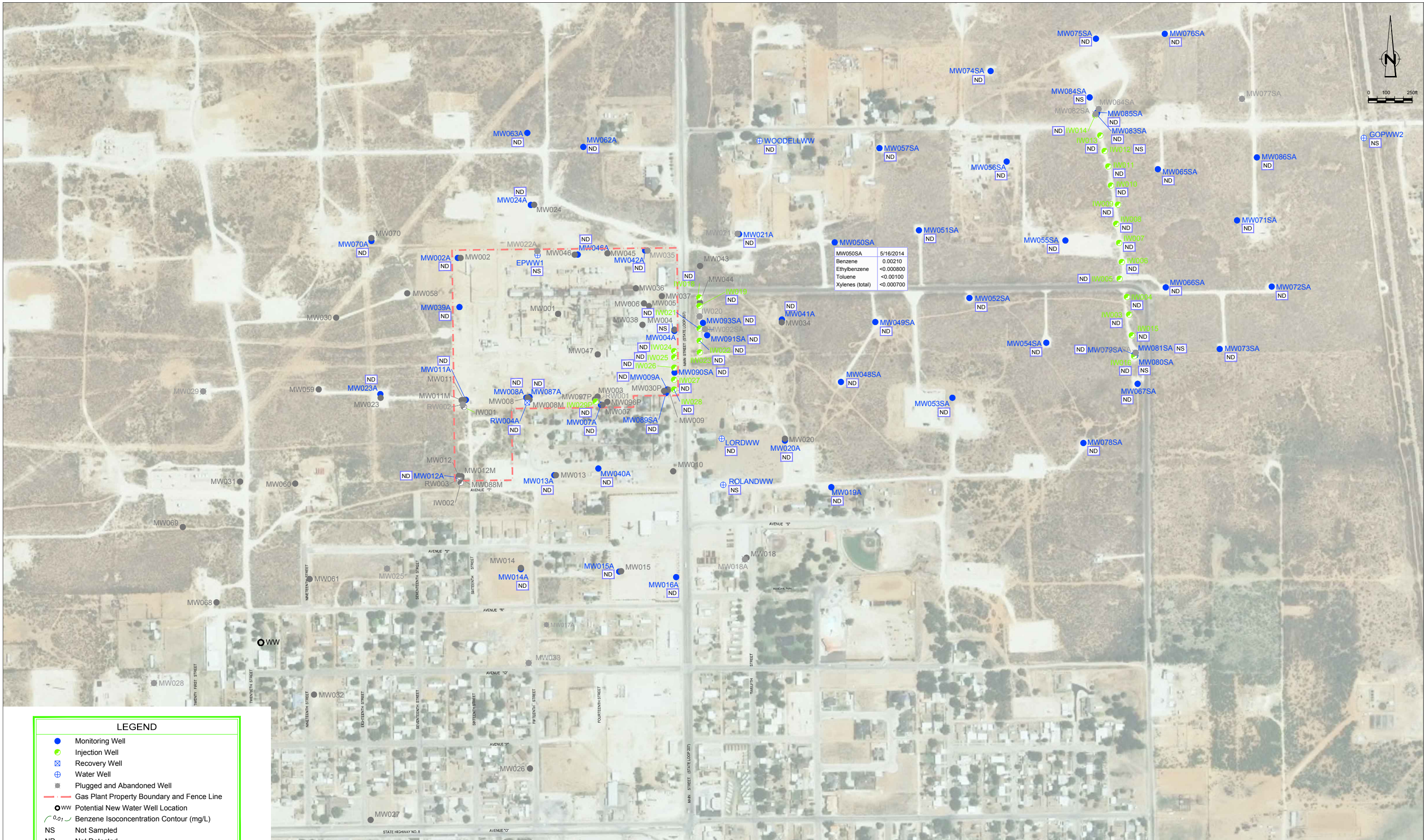
RE: 2009 NAIP Aerial Photograph.

NOTES:

- All results in mg/L.
- Highlighted cells indicate concentration exceeds NMWQCC standards for benzene of 0.01 mg/L.

figure 15
BTEX CONCENTRATION AND BENZENE ISOCONCENTRATION MAP
SHALLOW WELLS - MAY 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



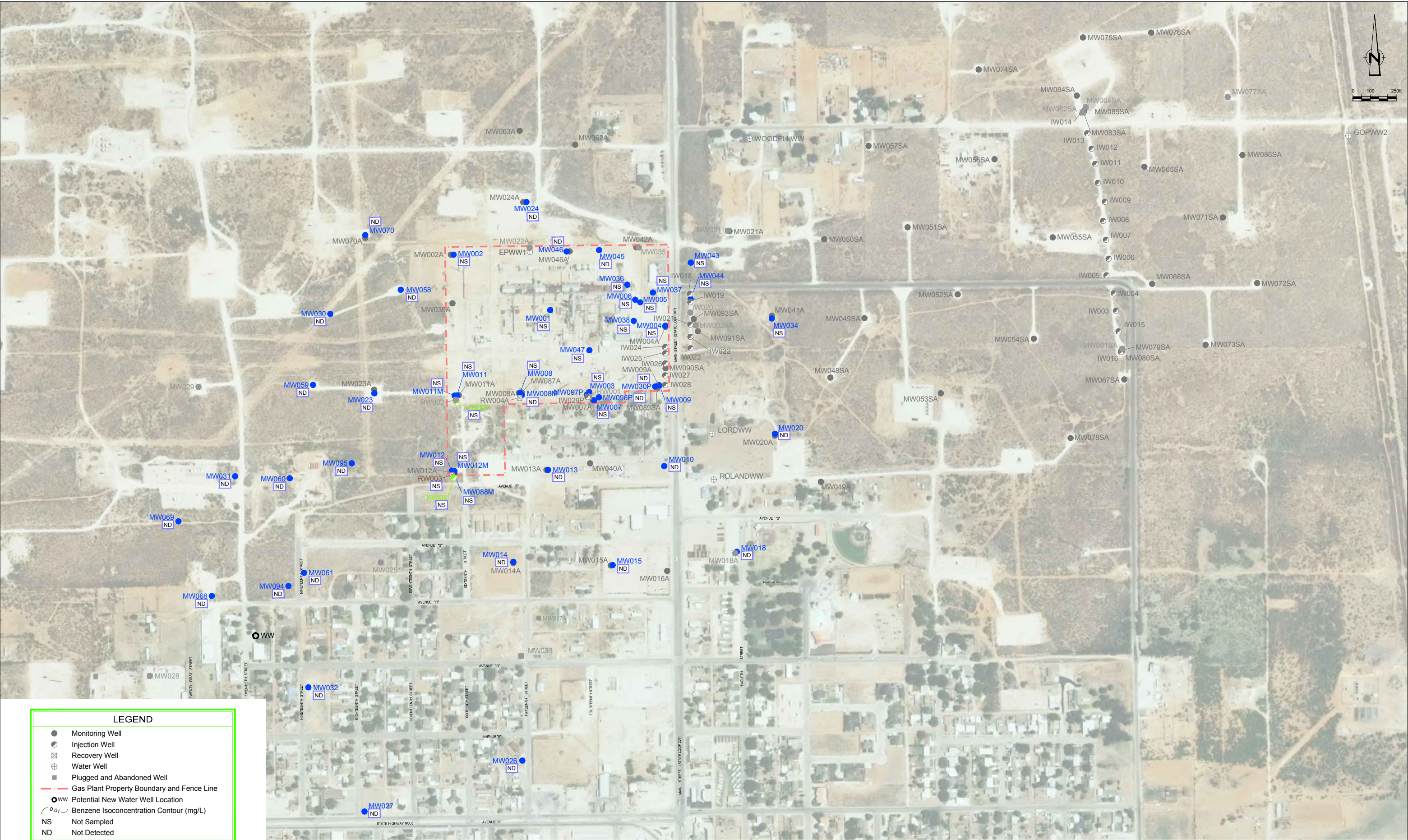


RE: 2009 NAIP Aerial Photograph.

NOTES:

- All results in mg/L.
- There was no BTEX exceedances observed in the deep wells in May 2013.

figure 16
BTEX CONCENTRATION AND BENZENE ISOCONCENTRATION MAP
DEEP WELLS - MAY 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



RE: 2009 NAIP Aerial Photograph.

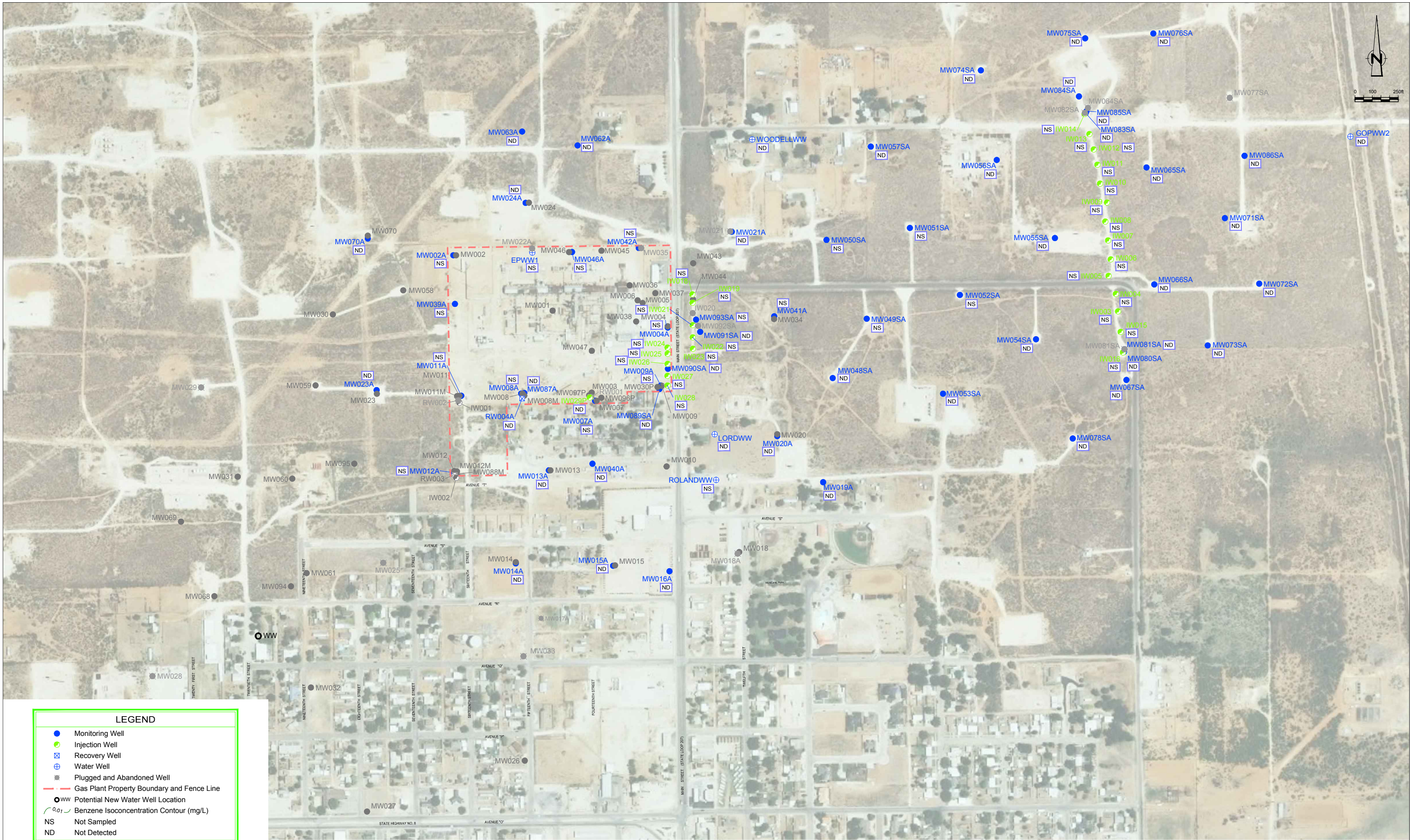
NOTES:

1. All results in mg/L.
2. There was no BTEX exceedances observed in the shallow wells in November 2014.

figure 17

BTEX CONCENTRATION AND BENZENE ISOCONCENTRATION MAP
SHALLOW WELLS - NOVEMBER 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company





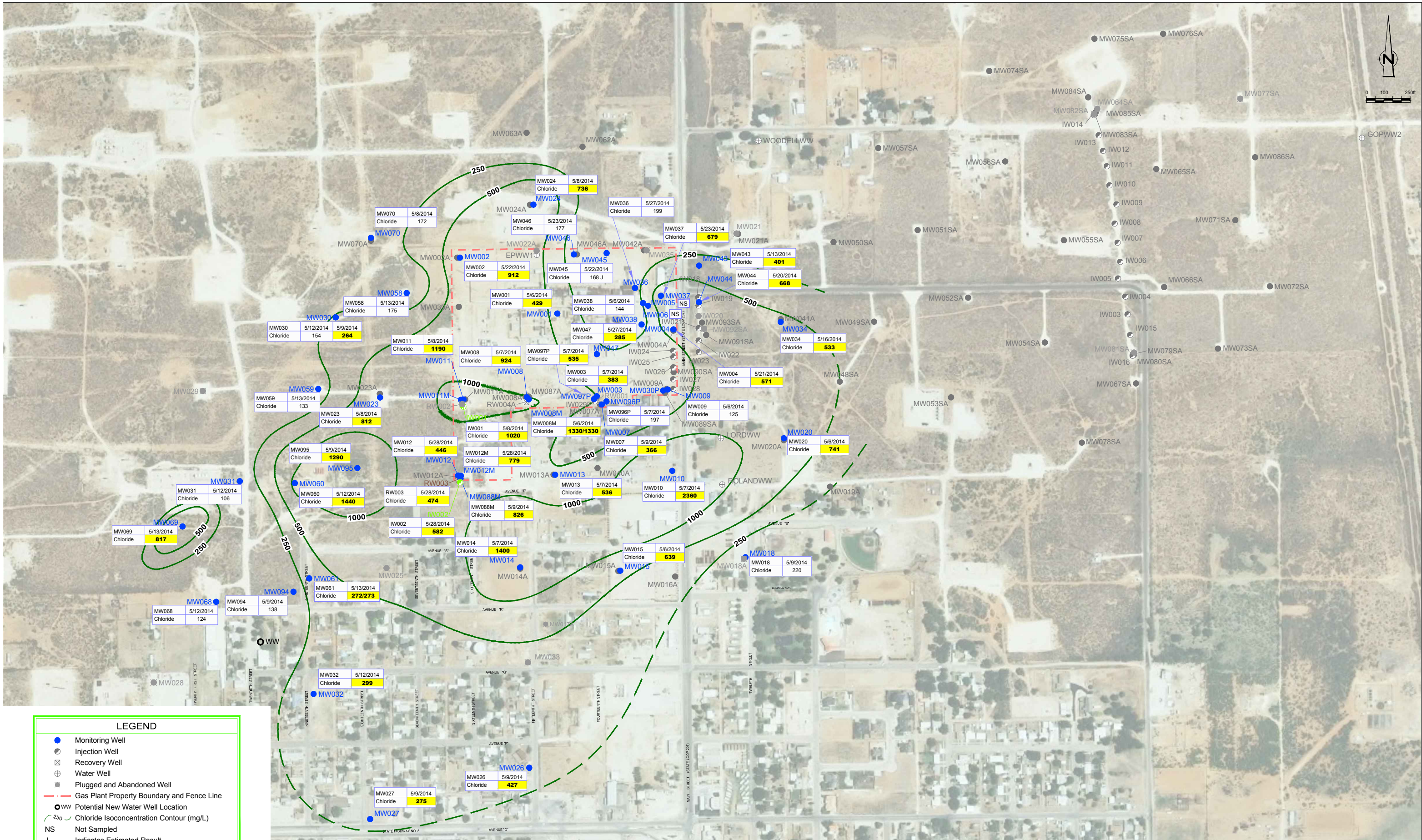
RE: 2009 NAIP Aerial Photograph.

NOTE:

1. All results in mg/L.
2. There was no BTEX exceedances observed in the deep wells in November 2014.

figure 18
BTEX CONCENTRATION AND BENZENE ISOCONCENTRATION MAP
DEEP WELLS - NOVEMBER 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company





RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Chloride of 250 mg/L.
3. Wells MW009, MW003 and MW025 were not honored in gradient.

Sample ID	MW061	5/13/2014	Sample Date
Constituent	Chloride	272/273	Duplicate Result (mg/L)
			Parent Result (mg/L)

figure 19
CHLORIDE ISOCONCENTRATION MAP
SHALLOW WELLS - MAY 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company

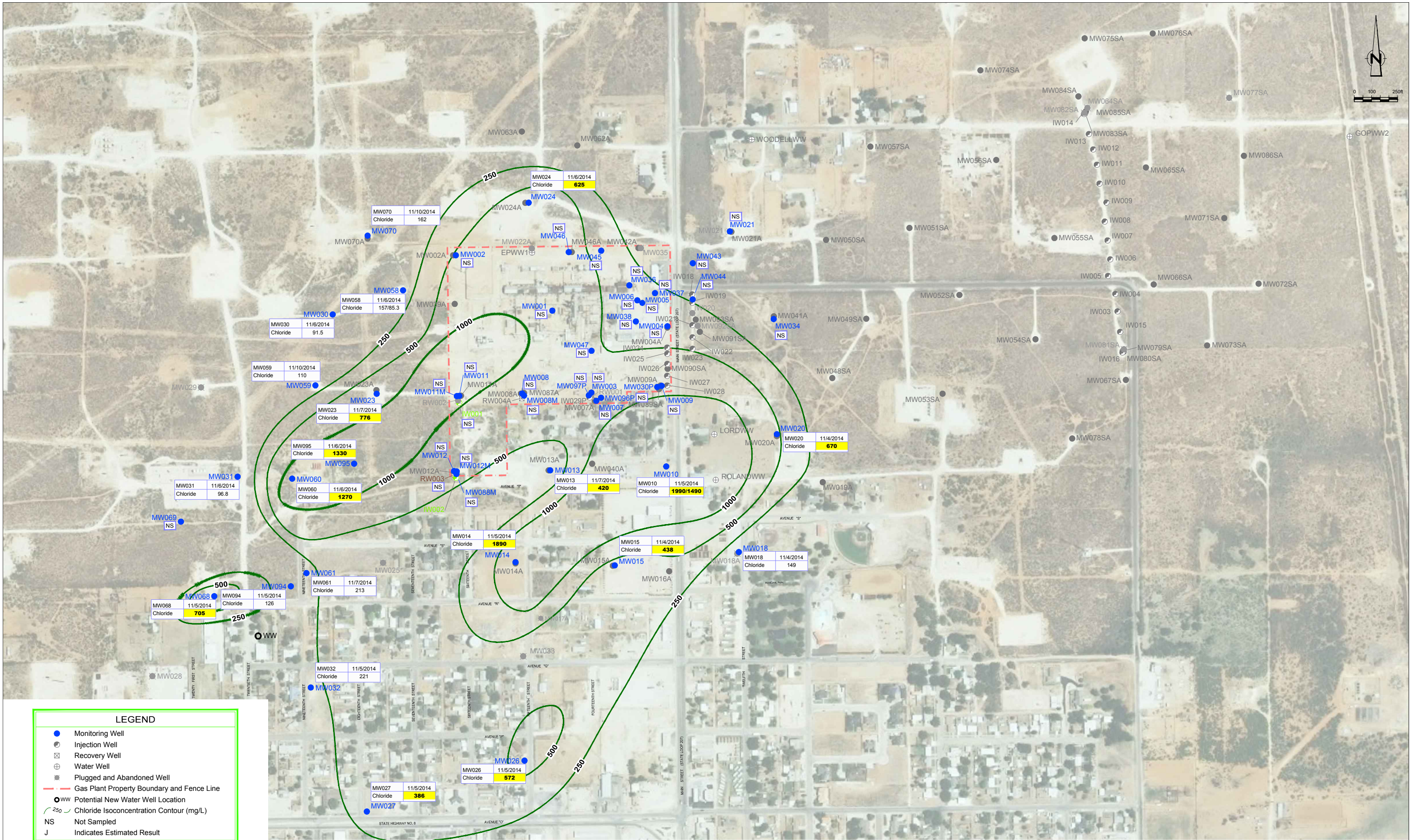
RE: 2009 NAIP Aerial Photograph.

NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMWQCC Standards for Chloride of 250 mg/L.
3. Well MW008A and RW-004A was not honored in gradient.

Sample ID	MW013A	5/7/2014	Sample Date
Constituent	Chloride	68.6/66.3	Duplicate Result (mg/L)
			Parent Result (mg/L)

figure 20
CHLORIDE ISOCONCENTRATION MAP
DEEP WELLS - MAY 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company



LEGEND

●

Monitoring Well

⊙

Injection Well

⊕

Recovery Well

⊗

Water Well

■

Plugged and Abandoned Well

⊕

Gas Plant Property Boundary and Fence Line

⊙

Potential New Water Well Location

250

Chloride Isoconcentration Contour (mg/L)

NS

Not Sampled

J

Indicates Estimated Result

RE: 2009 NAIP Aerial Photograph.

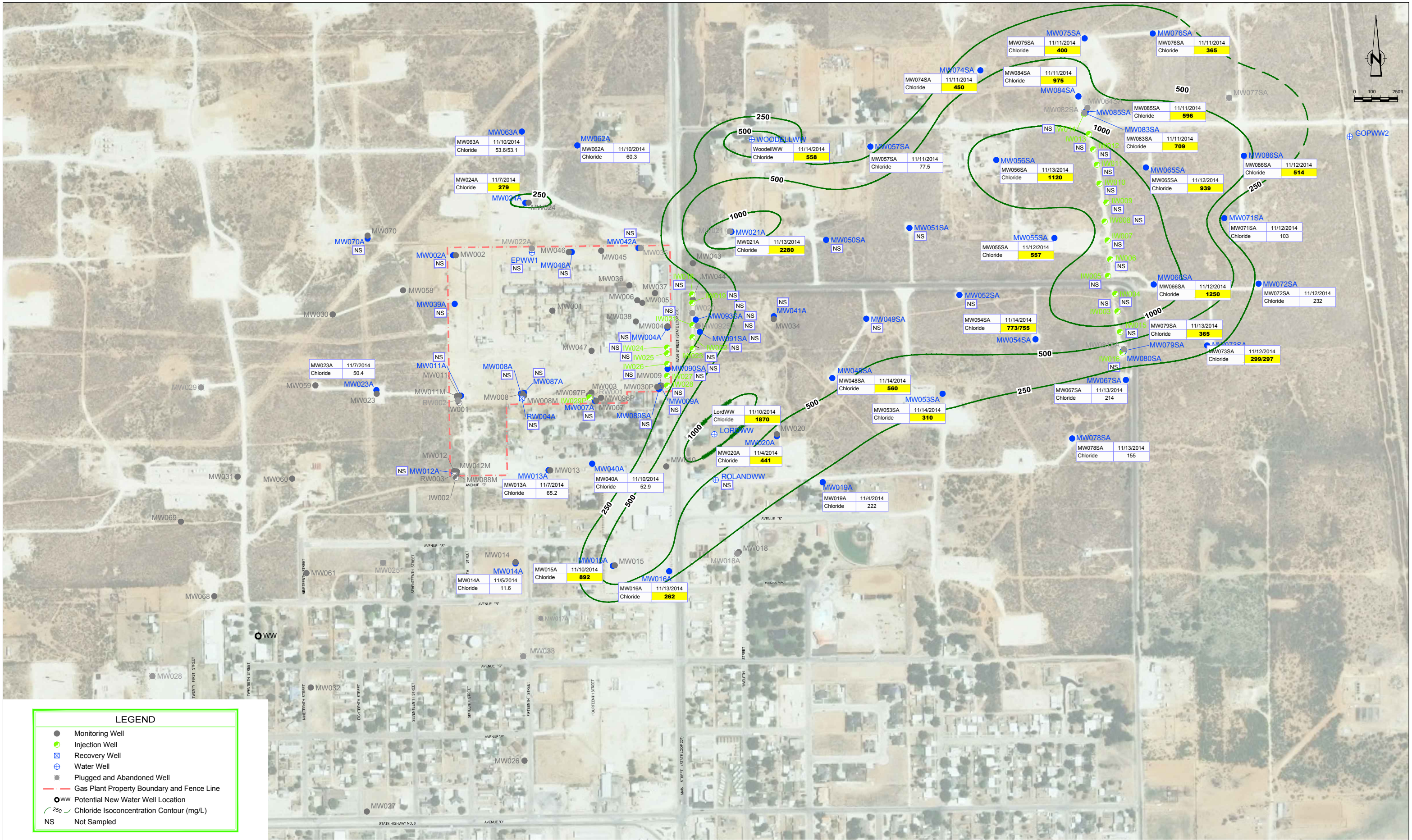
NOTES:

1. All results in mg/L.
2. Highlighted cells indicate concentration exceeds NMQCC Standards for Chloride of 250 mg/L.

Sample ID	MW058	11/6/2014	Sample Date
Constituent	Chloride	157/85.3	Duplicate Result (mg/L)
			Parent Result (mg/L)

figure 21
CHLORIDE ISOCONCENTRATION MAP
SHALLOW WELLS - NOVEMBER 2014
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company





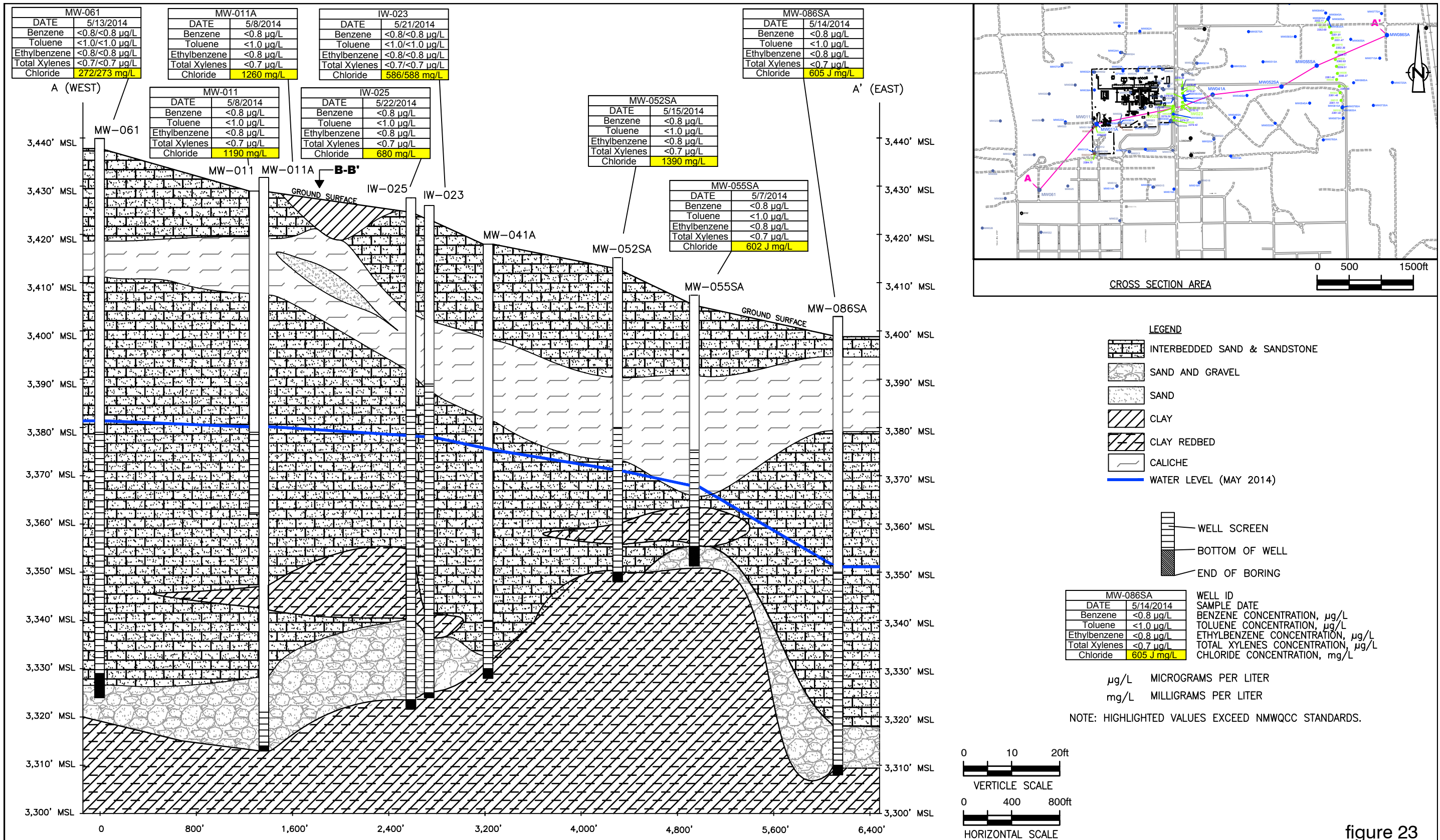
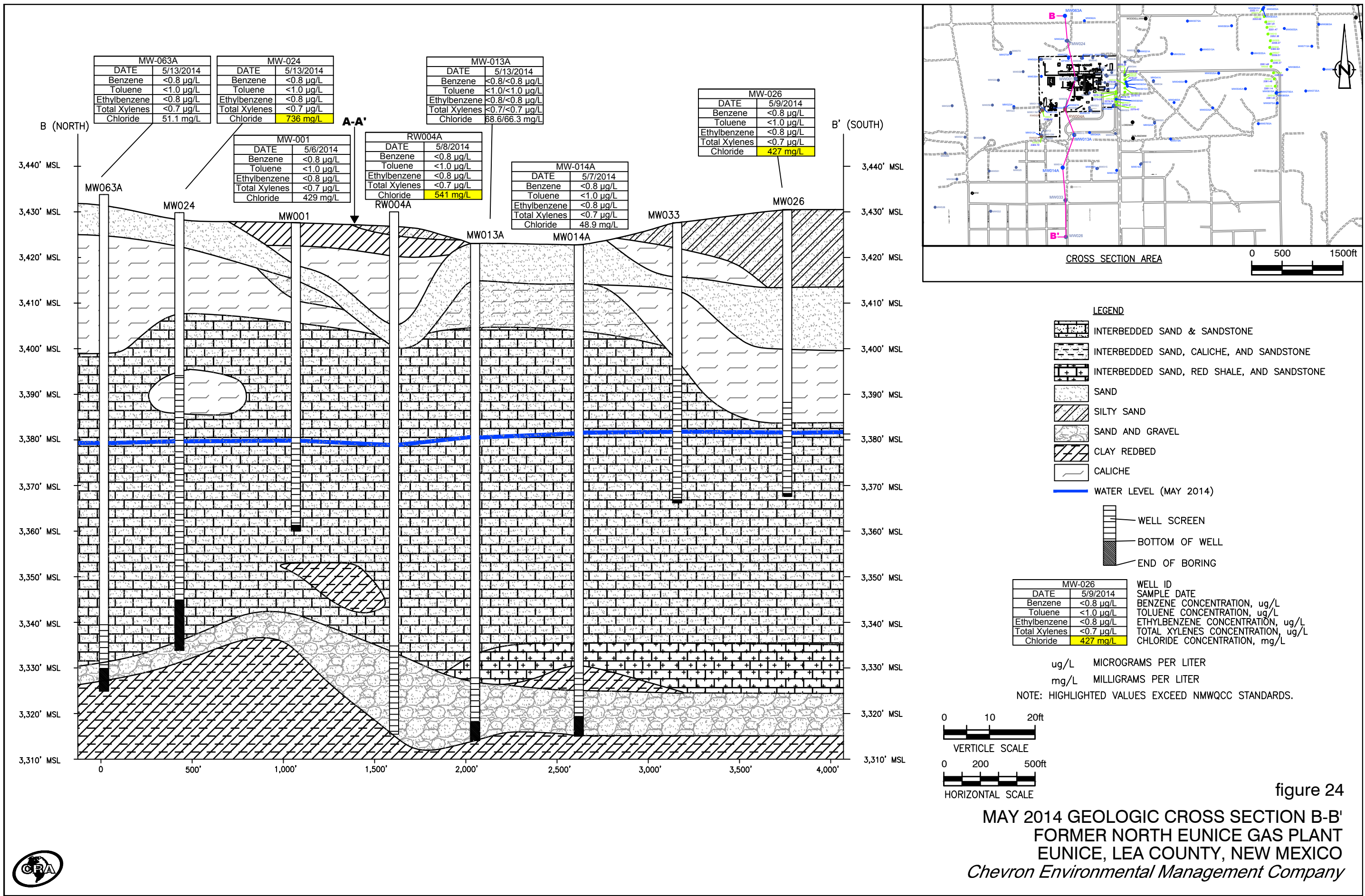
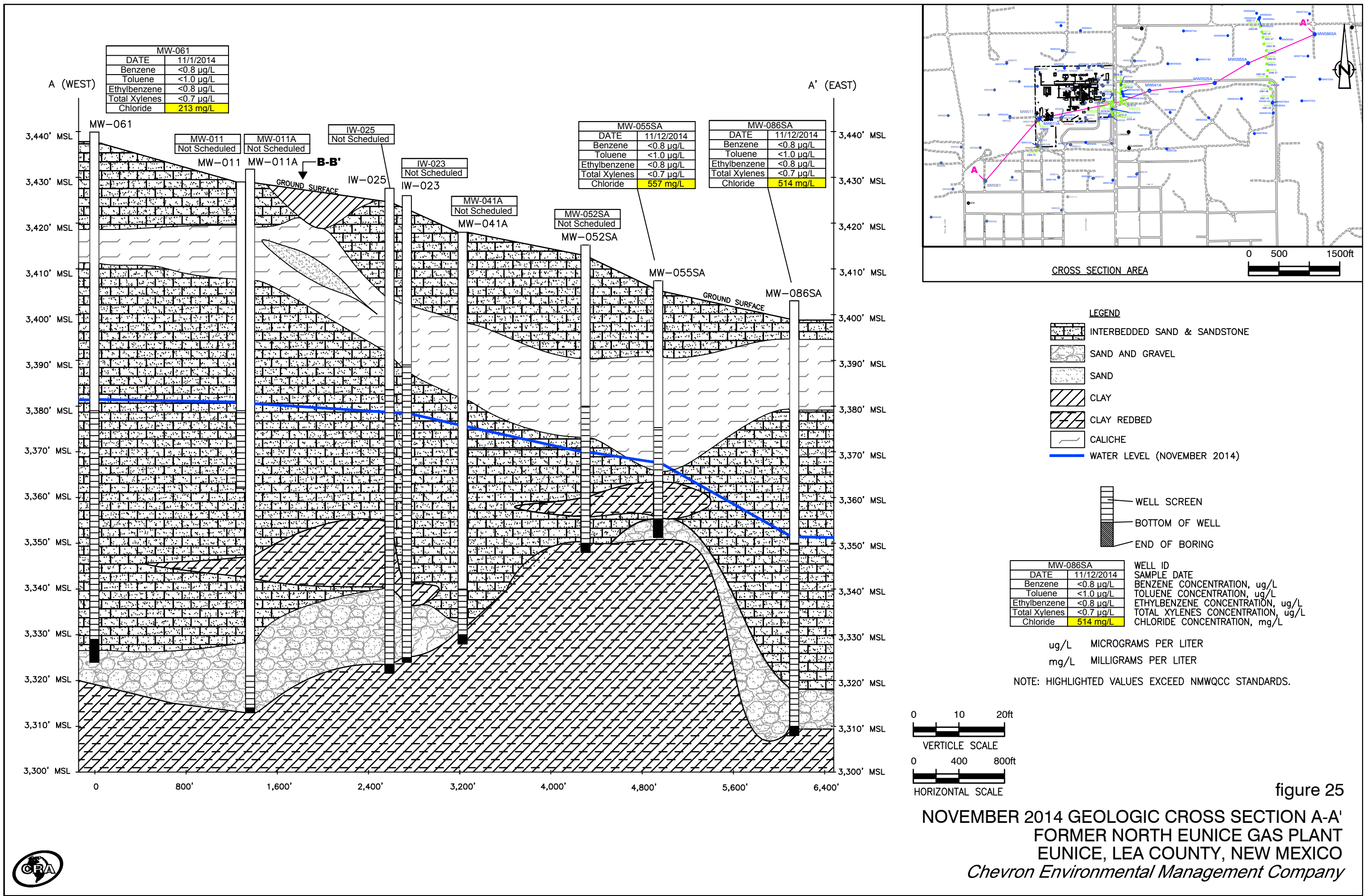
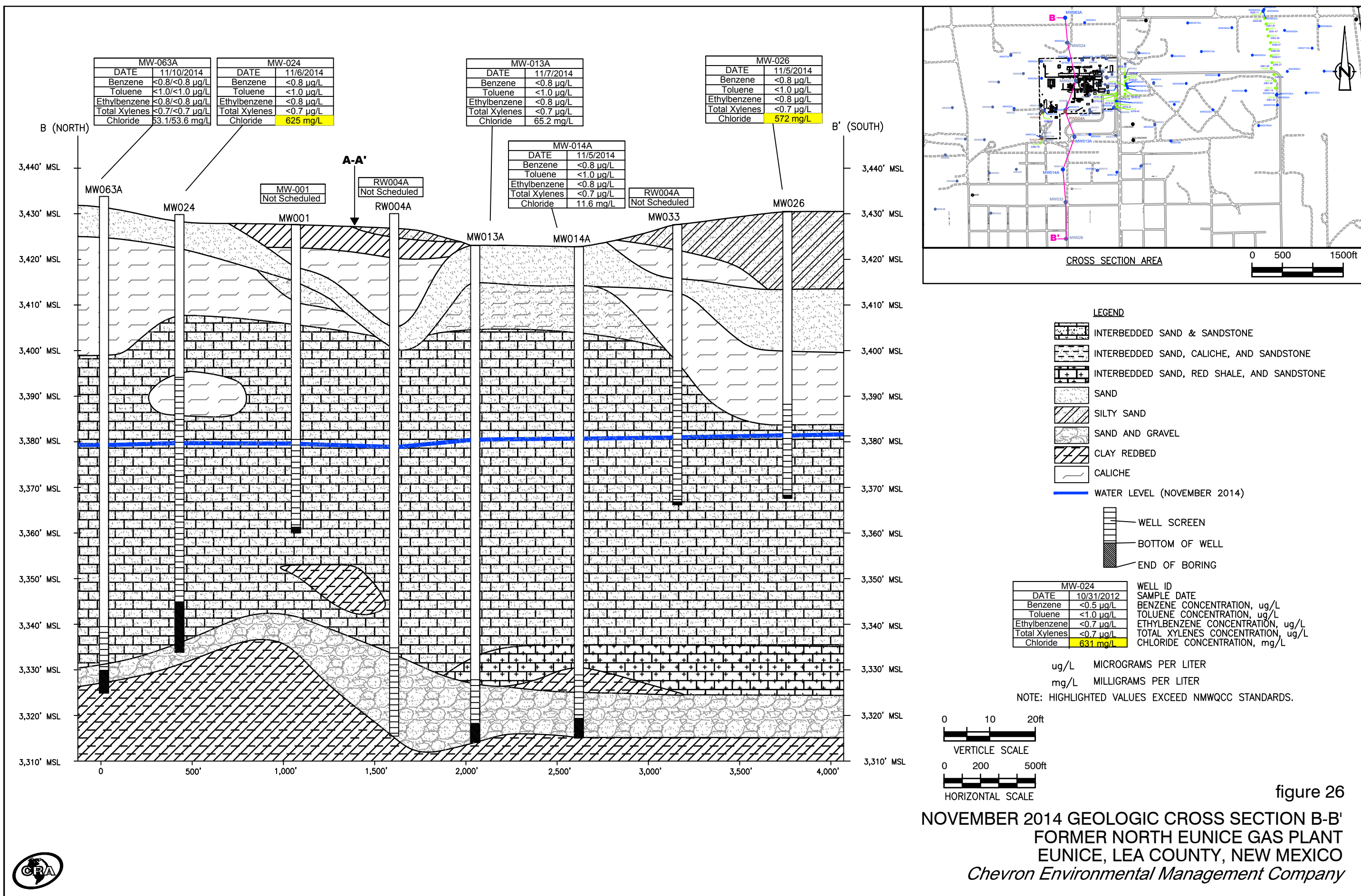


figure 23
MAY 2014 GEOLOGIC CROSS SECTION A-A'
FORMER EUNICE NORTH GAS PLANT
EUNICE, LEA COUNTY, NEW MEXICO
Chevron Environmental Management Company









Tables

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
<i>Shallow Monitor Wells</i>							
MW001 3428.57	4"	5/6/11	49.05		3,379.52		48-68
		11/1/11	48.47		3,380.10		
		5/3/12	48.57		3,380.00	68.43	
		10/23/12	48.75		3,379.82		
		5/2/13	49.00		3,379.57	68.12	
		10/29/13	49.04		3,379.53		
		5/5/14	49.07		3,379.50	68.14	
		11/3/14	48.78		3,379.79		
MW002 3432.17	4"	5/6/11	51.84		3,380.33		48-68
		11/2/11	51.89		3,380.28		
		5/3/12	51.99		3,380.18	68.48	
		10/24/12	52.12		3,380.05		
		5/2/13	52.30		3,379.87	68.65	
		10/29/13	52.30		3,379.87	70.44	
		5/5/14	52.36		3,379.81	68.68	
		11/4/14	52.31		3,379.86		
MW003 3428.27	4"	5/6/11	47.75		3,380.52		48-68
		11/1/11	47.90		3,380.37		
		5/4/12	48.13		3,380.14	70.42	
		10/23/12	48.33		3,379.94		
		5/2/13	48.52		3,379.75	70.71	
		10/29/13	48.61		3,379.66	70.84	
		5/5/14	48.62		3,379.65	70.71	
		11/4/14	47.91		3,380.36		
MW004 3423.38	4"	5/6/11	44.29		3,379.09		46.5-66.5
		11/1/11	44.52		3,378.86		
		5/4/12	44.63		3,378.75	60.00	
		10/23/12	44.94		3,378.44		
		5/1/13	45.15		3,378.23	66.66	
		10/29/13	45.35		3,378.03	68.85	
		5/5/14	45.36		3,378.02	66.67	
		11/3/14	44.87		3,378.51		
MW005 3424.77	4"	5/5/11	45.35		3,379.42		48-68
		11/1/11	45.13		3,379.64		
		5/22/12	45.76		3,379.01	67.60	
		10/25/12	48.64		3,376.13		
		5/2/13	48.52		3,376.25	46.15	
		10/29/13	46.35		3,378.42	69.87	
MW006 3425.26	4"	5/5/11	46.75		3,378.51		48-68
		11/2/11	45.55		3,379.71		
		5/22/12	46.10	-2.50	3,379.16	68.10	
		10/25/12	46.09		3,379.17		
		5/2/13	46.74	0.34	3,378.52		
		10/29/13	49.74	3.30	3,375.52		
		5/5/14	49.66		3,375.60		
		11/3/14	46.08	3.55	3,381.84		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW007 3428.39	4"	5/6/11 11/1/11 5/4/12 10/23/12 5/2/13 10/29/13 5/5/14 11/4/14	47.90 48.01 48.25 48.52 48.70 48.73 48.76 48.01		3,380.49 3,380.38 3,380.14 3,379.87 3,379.69 3,379.66 3,379.63 3,380.38	68.24 68.40 70.11 68.41	46.3-66.3
MW008 3430.13	4"	5/6/11 11/1/11 5/4/12 10/23/12 5/2/13 10/29/13 5/5/14 11/4/14	49.30 49.45 49.58 49.75 49.93 50.03 50.10 49.80		3,380.83 3,380.68 3,380.55 3,380.38 3,380.20 3,380.10 3,380.03 3,380.33	66.75 66.70 62.72 66.70	46.6-66.1
MW008M 3427.95	4"	5/3/11 11/2/11 5/4/12 10/23/12 5/2/13 10/29/13 5/5/14 11/4/14	49.55 49.69 49.84 50.02 50.22 50.26 50.30 50.05		3,378.40 3,378.26 3,378.11 3,377.93 3,377.73 3,377.69 3,377.65 3,377.90	86.70 86.35 88.58 86.37	75-85
MW009 3427.63	4"	5/6/11 11/1/11 5/3/12 10/23/12 5/1/13 10/29/13 5/5/14 11/3/14	48.02 48.24 48.35 48.60 48.81 48.95 49.03 48.50		3,379.61 3,379.39 3,379.28 3,379.03 3,378.82 3,378.68 3,378.60 3,379.13	68.94 69.10 71.37 69.11	46.6-66.6
MW010 3419.42	4"	5/3/11 11/1/11 5/1/12 10/24/12 5/1/13 10/28/13 5/5/14 11/3/14	39.36 49.50 39.51 39.77 39.91 40.06 40.15 39.62		3,380.06 3,369.92 3,379.91 3,379.65 3,379.51 3,379.36 3,379.27 3,379.80	64.66 64.60 65.44 64.60	44.75-65.10
MW011 3431.49	4"	5/6/11 11/2/11 5/3/12 10/23/12 5/2/13 10/29/13 5/5/14 11/3/14	50.60 50.71 50.80 50.91 51.12 51.13 51.25 50.75		3,380.89 3,380.78 3,380.69 3,380.58 3,380.37 3,380.36 3,380.24 3,380.74	67.69 67.70 68.47 67.71	47-67

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW011M 3431.21	4"	5/6/11 11/1/11 5/3/12 10/23/12 5/2/13 10/29/13 5/5/14	50.33 50.47 50.54 50.68 50.88 50.87 50.98		3,380.88 3,380.74 3,380.67 3,380.53 3,380.33 3,380.34 3,380.23	94.00 92.00 94.09 92.03	80-90
MW012 3429.51	4"	5/6/11 11/2/11 5/3/12 10/24/12 5/1/13 10/29/13 5/5/14 11/3/14	48.87 48.47 48.57 48.65 48.81 48.89 48.96 48.81		3,380.64 3,381.04 3,380.94 3,380.86 3,380.70 3,380.62 3,380.55 3,380.70	66.32 66.40 67.17 66.41	44-64.5
MW012M 3430.06	4"	5/4/11 11/2/11 5/3/12 10/24/12 5/1/13 10/29/13 5/5/14 11/3/14	49.11 49.06 49.18 49.28 49.46 49.46 49.60 49.44		3,380.95 3,381.00 3,380.88 3,380.78 3,380.60 3,380.60 3,380.46 3,380.62	91.20 91.50 93.23 91.51	80-90
MW013 3423.11	4"	5/4/11 11/1/11 5/1/12 10/24/12 5/1/13 10/29/13 5/5/14 11/3/14	43.30 43.30 43.40 43.61 43.76 43.90 43.93 43.65		3,379.81 3,379.81 3,379.71 3,379.50 3,379.35 3,379.21 3,379.18 3,379.46	60.04 60.05 60.92 60.08	40-60
MW014 3424.08	4"	5/3/11 11/1/11 5/1/12 10/24/12 4/13/13 10/29/13 5/5/14 11/3/14	42.56 42.89 42.91 43.12 43.20 43.34 43.40 43.20		3,381.52 3,381.19 3,381.17 3,380.96 3,380.88 3,380.74 3,380.68 3,380.88	60.65 62.08 60.76	45-65
MW015 3420.40	4"	5/3/11 11/1/11 5/1/12 10/24/12 4/30/13 10/29/13 5/5/14 11/3/14	39.51 39.58 39.61 39.87 39.85 40.07 40.15 39.83		3,380.89 3,380.82 3,380.79 3,380.53 3,380.55 3,380.33 3,380.25 3,380.57	54.14 54.70 54.18 54.71	35-55

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW018 3417.15	4"	5/3/11 11/1/11 5/22/12 10/24/12 4/30/13 10/29/13 5/5/14 11/4/14	37.11 37.35 37.24 37.50 37.60 37.74 36.70	SWA	3,380.04 3,379.80 3,379.91 3,379.65 3,379.55 3,379.41 3,380.45	53.89 55.55 53.86	35-55
MW020 3420.85	4"	5/3/11 11/1/11 5/2/12 10/24/12 4/30/13 10/29/13 5/5/14 11/4/14	42.99 43.70 43.30 43.48 43.62 43.82 43.83 43.45		3,377.86 3,377.15 3,377.55 3,377.37 3,377.23 3,377.03 3,377.02 3,377.40	57.85 58.00 59.75 58.01	35-55
MW021 3422.72	4"	5/4/11 11/1/11 5/2/12 10/24/12 4/29/13 3/31/14	45.23 46.07 46.11 46.52 46.58		3,377.49 3,376.65 3,376.61 3,376.20 3,376.14 P&A	62.40 62.25	40-55
MW023 3436.44	4"	5/5/11 11/1/11 5/24/12 10/25/12 5/1/13 10/28/13 5/5/14 11/3/14	55.26 55.53 55.63 55.72 55.80 55.81 55.91 55.88		3,381.18 3,380.91 3,380.81 3,380.72 3,380.64 3,380.63 3,380.53 3,380.56	69.10 69.01 70.16 69.03	46-66
MW024 3431.32	4"	5/4/11 11/1/11 5/1/12 10/24/12 5/1/13 10/28/13 5/5/14 11/3/14	51.60 51.77 51.76 51.89 52.10 52.23 52.24 52.20		3,379.72 3,379.55 3,379.56 3,379.43 3,379.22 3,379.09 3,379.08 3,379.12	89.06 89.50 90.62 89.48	36-86
MW025 3432.64	4"	5/3/11 11/1/11 5/1/12 10/25/12 4/30/13 4/1/14	51.30 51.25 51.38 51.53 51.58		3,381.34 3,381.39 3,381.26 3,381.11 3,381.06 P&A	66.08 66.20	45-65

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW026 3432.04	4"	5/3/11	50.76		3,381.28	62.70	43-63
		11/1/11	50.78		3,381.26		
		5/3/12	50.83		3,381.21		
		10/25/12	51.08		3,380.96	62.85	
		4/30/13	50.90		3,381.14		
		10/29/13	50.82		3,381.22		
		5/5/14	51.15		3,380.89	62.81	
		11/3/14	51.20		3,380.84		
MW027 3443.33	4"	5/3/11	62.57		3,380.76	71.40	51-71
		11/1/11	62.57		3,380.76		
		5/17/12	62.65		3,380.68		
		10/24/12	62.67		3,380.66	71.60	
		4/30/13	62.80		3,380.53		
		10/29/13	62.99		3,380.34		
		5/5/14	62.87		3,380.46	71.51	
		11/3/14	62.90		3,380.43		
MW028 3451.63	4"	5/3/11	70.66		3,380.97	84.45	63-83
		11/1/11	70.76		3,380.87		
		10/24/12	70.92		3,380.71		
		4/30/13	71.00		3,380.63		
		4/1/14			P&A		
MW029 3446.89	4"	5/4/11	65.85		3,381.04	80.94 81.40	60-80
		11/1/11	65.81		3,381.08		
		10/24/12	65.80		3,381.09		
		5/1/12	65.80		3,381.09		
		5/1/13	65.91		3,380.98		
		4/1/14			P&A		
MW030 3439.84	4"	5/4/11	59.23		3,380.61	77.55	55-75
		11/1/11	59.17		3,380.67		
		5/1/12	59.17		3,380.67		
		10/24/12	59.20		3,380.64	71.67	
		5/1/13	59.39		3,380.45		
		10/28/13	59.42		3,380.42		
		5/5/2014	59.47		3380.37	71.63	
		11/3/2014	59.51		3380.33		
		MW031 3440.68	4"		5/4/11	59.89	
11/1/11	59.79			3,380.89			
5/1/12	59.88			3,380.80			
10/24/12	59.91			3,380.77	76.97		
5/1/13	60.08			3,380.60			
10/28/13	60.03			3,380.65		77.58	
5/5/2014	60.13			3380.55	76.89		
11/3/2014	60.15			3380.53			

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW032 3442.22	4"	5/3/11 11/1/11 5/24/12 10/24/12 4/30/13 10/29/13 5/5/14 11/3/14	60.91 62.91 61.12 61.08 61.20 61.33 61.27 61.20		3,381.31 3,379.31 3,381.10 3,381.14 3,381.02 3,380.89 3,380.95 3,381.02	68.08 68.90 70.94 68.88	48-68
MW033 3428.86	4"	5/3/11 11/2/11 5/24/12 10/25/12 4/30/13 10/28/13	47.40 47.50 47.56 47.79 47.78		3,381.46 3,381.36 3,381.30 3,381.07 3,381.08 P&A	62.95 63.15	32-62
MW034 3418.76	4"	5/4/11 11/1/11 5/8/12 10/24/12 4/30/13 10/28/13 5/5/14 11/3/14	41.95 42.26 42.33 42.61 42.76 42.76 43.01 42.61		3,376.81 3,376.50 3,376.43 3,376.15 3,376.00 NG 3,375.75 3,376.15	62.69 62.68	42-62
MW035 3427.39	4"	5/6/11 11/1/11 5/3/12 10/24/12 5/2/13 10/28/13	46.18 48.79 48.80 49.16 49.25		3,381.21 3,378.60 3,378.59 3,378.23 3,378.14 P&A	65.30 65.50	42-62
MW036 3425.49	4"	5/6/11 11/2/11 5/22/12 10/24/12 5/2/13 10/29/13 5/5/14 11/3/14	46.00 46.22 46.48 46.82 46.90 47.15 47.15 46.80		3,379.49 3,379.27 3,379.01 3,378.67 3,378.59 3,378.34 3,378.34 3,378.69	61.92 61.85 63.85 61.83	42-62
MW037 3423.71	4"	5/6/11 11/2/11 5/3/12 10/23/12 5/1/13 10/29/13 5/5/14 11/3/14	44.55 44.86 45.00 45.31 45.43 45.95 45.71 45.30		3,379.16 3,378.85 3,378.71 3,378.40 3,378.28 3,377.76 3,378.00 3,378.41	61.55 61.60 62.90 61.57	42-62

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW038 3425.23	4"	5/3/11	45.67		3,379.56		42-62
		11/2/11	45.63		3,379.60		
		5/4/12	46.01		3,379.22	63.15	
		10/23/12	46.29		3,378.94		
		5/2/13	46.51		3,378.72	61.86	
		10/29/13	46.64		3,378.59	64.15	
		5/5/14	46.67		3,378.56	61.85	
		11/3/14	46.29		3,378.94		
MW043 3423.57	4"	5/4/11	45.58		3,377.99		42-62
		11/1/11	46.20		3,377.37		
		5/2/12	46.24		3,377.33	64.72	
		10/24/12	46.58		3,376.99		
		4/29/13	46.73		3,376.84	64.66	
		10/29/13	47.06		3,376.51	62.73	
		5/5/14	47.01		3,376.56	64.63	
		11/3/14	46.60		3,376.97		
MW044 3420.41	4"	5/4/11	41.79		3,378.62		40-60
		11/1/11	42.05		3,378.36		
		10/24/12	42.56		3,377.85		
		4/30/13	42.70		3,377.71	60.35	
		10/28/13	43.05		3,377.36	67.54	
		5/5/14	43.01		3,377.40	60.31	
		11/3/14	42.55		3,377.86		
MW045 3425.53	4"	5/6/11	46.05		3,379.48		46-66
		11/2/11	45.92		3,379.61		
		5/3/12	46.53		3,379.00	66.29	
		10/24/12	46.85		3,378.68		
		5/2/13	46.93		3,378.60	66.91	
		10/29/13	47.07		3,378.46	66.94	
		5/5/14	47.09		3,378.44	66.85	
		11/4/14	46.84		3,378.69		
MW046 3426.81	4"	5/6/11	47.20		3,379.61		46-66
		11/2/11	46.98		3,379.83		
		5/3/12	47.53		3,379.28	66.72	
		10/24/12	47.79		3,379.02		
		5/2/13	47.98		3,378.83	66.83	
		10/29/13	48.06		3,378.75	68.89	
		5/5/14	48.07		3,378.74	66.79	
		11/4/14	47.85		3,378.96		
MW047 3427.65	4"	5/6/11	47.33		3,380.32		46-66
		11/1/11	47.51		3,380.14		
		5/22/12	47.65		3,380.00	66.60	
		10/23/12	47.90		3,379.75		
		5/2/13	48.10		3,379.55	66.92	
		10/29/13	48.22		3,379.43	67.12	
		5/5/14	48.26		3,379.39	66.91	

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW058 3437.13	4"	5/5/11 11/1/11 5/1/12 10/24/12 5/1/13 10/28/13 5/5/14 11/3/14	56.50 56.51 56.50 56.57 56.80 56.83 56.89 56.90		3,380.63 3,380.62 3,380.63 3,380.56 3,380.33 3,380.30 3,380.24 3,380.23	110.90 111.40 114.05 111.41	49-109
MW059 3442.24	4"	5/4/11 11/1/11 5/4/12 10/25/12 5/1/13 10/28/13 5/5/14 11/3/14	61.27 61.24 61.32 61.40 61.48 61.47 61.55 61.60		3,380.97 3,381.00 3,380.92 3,380.84 3,380.76 3,380.77 3,380.69 3,380.64	106.23 106.90 107.47 106.83	45-105
MW060 3437.70	4"	5/4/11 11/1/11 5/1/12 10/24/12 5/1/13 10/28/13 5/5/14 11/3/14	56.57 56.50 56.59 56.62 56.82 56.80 56.88 56.88		3,381.13 3,381.20 3,381.11 3,381.08 3,380.88 3,380.90 3,380.82 3,380.82	101.83 102.27 103.99 102.25	40-100
MW061 3439.86	4"	5/3/11 11/1/11 5/1/12 10/24/12 4/30/13 10/28/13 5/5/14 11/3/14	58.55 58.48 58.67 58.72 58.81 58.84 58.95 58.90		3,381.31 3,381.38 3,381.19 3,381.14 3,381.05 3,381.02 3,380.91 3,380.96	110.50 113.90 110.55 112.75 110.51	48.5-108.5
MW068 3448.08	4"	5/3/11 11/1/11 5/2/12 10/24/12 4/30/13 10/28/13 5/5/14 11/3/14	66.87 66.85 67.04 67.03 67.11 67.12 67.20 67.09		3,381.21 3,381.23 3,381.04 3,381.05 3,380.97 3,380.96 3,380.88 3,380.99	112.34 115.65 112.40 117.19 112.39	45-110
MW069 3444.07	4"	5/4/11 11/1/11 5/1/12 5/1/13 10/28/13 5/5/14 11/3/14	63.82 62.95 63.04 63.21 63.16 63.26 63.31		3,380.25 3,381.12 3,381.03 3,380.86 3,380.91 3,380.81 3,380.76	112.14 112.91 115.89 112.88	45-110

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW070 3439.68	4"	5/4/11	59.06		3,380.62		48-93
		11/1/11	59.09		3,380.59		
		5/1/12	59.00		3,380.68	95.85	
		10/24/12	59.02		3,380.66	98.60	
		5/1/13	59.28		3,380.40	96.45	
		10/28/13	59.24		3,380.44	98.23	
		5/5/14	59.29		3,380.39	96.43	
		11/3/14	59.36		3,380.32		
MW088M 3430.27	4"	5/3/11	49.60		3,380.67		50-90
		11/2/11	49.57		3,380.70		
		5/3/12	49.72		3,380.55	92.62	
		10/24/12	49.81		3,380.46	92.85	
		5/1/13	49.94		3,380.33	92.85	
		10/29/13	50.01		3,380.26	94.23	
		5/5/14	50.08		3,380.19	92.81	
MW094 3443.15	4"	11/1/11	61.82		3,381.33		40.5-100.5
		5/1/12	61.99		3,381.16	103.10	
		4/30/13	62.13		3,381.02	103.15	
		10/28/13	62.07		3,381.08	106.22	
		5/5/14	62.26		3,380.89	103.13	
		11/3/14	62.18		3,380.97		
MW095 3436.13	4"	11/1/11	55.05		3,381.08	90.00	40-90
		5/1/12	55.13		3,381.00	92.09	
		5/1/13	55.38		3,380.75	92.70	
		10/29/13	55.52		3,380.61	92.06	
		5/5/14	55.50		3,380.63		
		11/6/14	55.52		3,380.61		
RW002 3431.66	6"	5/5/11	50.80		3,380.86		48-68
		11/2/11	48.72		3,382.94		
		5/3/12	50.99		3,380.67	71.79	
		10/23/12	51.15		3,380.51	71.98	
		5/2/13	51.34		3,380.32	71.99	
		3/31/14			P&A		
RW003 3429.82	4"	5/5/11	48.78		3,381.04		45-65
		11/2/11	49.13		3,380.69		
		5/3/12	48.92		3,380.90	66.65	
		10/24/12	48.96		3,380.86	67.05	
		5/1/13	49.12		3,380.70	67.15	
		10/29/13	49.18		3,380.64	68.17	
		5/5/14	49.27		3,380.55	67.13	
		11/3/14	49.12		3,380.70		

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SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
IW001 3431.91	4	5/5/11	49.05		3,382.86		40-90
		11/2/11	47.28		3,384.63		
		5/3/12	49.25		3,382.66	93.15	
		10/23/12	49.35		3,382.56	90.03	
		5/2/13	50.51		3,381.40	90.01	
		10/29/13	49.54		3,382.37	92.53	
		5/5/14	49.64		3,382.27	89.98	
		11/3/14	49.46		3,382.45		
IW002 3430.33	4"	5/5/11	46.98		3,383.35		40-90
		11/2/11	50.86		3,379.47		
		5/3/12	47.35		3,382.98	84.70	
		10/24/12	47.42		3,382.91	85.20	
		5/1/13	47.60		3,382.73	85.25	
		10/29/13	44.41		3,385.92	88.49	
		5/5/14	47.69		3,382.64	85.21	
		11/3/14	48.78		3,381.55		
Deep Monitor Wells							
MW002A 3432.3	4"	5/6/11	51.84		3,380.46		103-123
		11/4/11	51.86		3,380.44		
		5/3/12	51.95		3,380.35	123.75	
		10/24/12	52.10		3,380.20		
		5/2/13	52.30		3,380.00	124.40	
		10/29/13	52.31		3,379.99	127.92	
		5/5/14	52.37		3,379.93	124.02	
		11/4/14	52.30		3,380.00		
MW004A 3423.57	4"	5/6/11	44.50		3,379.07		94.2-104.2
		11/4/11	44.74		3,378.83		
		5/22/12	44.85		3,378.72	104.15	
		10/23/12	45.25		3,378.32		
		5/1/13	45.35		3,378.22	104.28	
		10/29/13	45.57		3,378.00	108.30	
		5/5/14	45.60		3,377.97	104.39	
		11/3/14	45.11		3,378.46		
MW007A 3428.13	4"	5/6/11	47.68		3,380.45		96.5-106.65
		11/4/11	47.63		3,380.50		
		5/4/12	48.02		3,380.11	109.56	
		10/23/12	48.23		3,379.90		
		5/2/13	48.44		3,379.69	106.81	
		10/29/13	48.51		3,379.62	110.38	
		5/5/14	48.56		3,379.57	106.86	
		11/4/14	47.96		3,380.17		
MW008A 3430.01	4"	5/6/11	49.40		3,380.61		105.5-113.4
		11/4/11	49.24		3,380.77		
		5/4/12	49.62		3,380.39	118.40	
		10/23/12	49.59		3,380.42		
		5/2/13	49.95		3,380.06	115.71	
		10/29/13	49.96		3,380.05	119.17	
		5/5/14	50.01		3,380.00	115.92	
		11/4/14	49.80		3,380.21		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW009A 3427.48	4"	5/6/11 11/4/11 5/3/12 10/23/12 5/1/13 10/29/13 5/5/14 11/3/14	47.81 48.02 48.16 48.40 48.58 48.76 48.81 48.31		3,379.67 3,379.46 3,379.32 3,379.08 3,378.90 3,378.72 3,378.67 3,379.17	102.55 103.05 107.20	93-100.6
MW011A 3431.77	4"	5/6/11 11/4/11 5/3/12 10/23/12 5/1/13 10/29/13 5/5/14 11/3/14	51.02 51.30 51.21 51.36 51.60 51.56 51.65 51.41		3,380.75 3,380.47 3,380.56 3,380.41 3,380.17 3,380.21 3,380.12 3,380.36	117.35 117.20 121.69 117.30	107.5-115.0
MW012A 3429.92	4"	5/6/11 11/4/11 5/3/12 5/1/13 10/29/13 5/5/14 11/3/14	48.87 48.81 49.00 49.22 49.31 49.39 49.22		3,381.05 3,381.11 3,380.92 3,380.70 3,380.61 3,380.53 3,380.70	115.39 116.20 119.41	106.1-116.1
MW013A 3424.25	4"	5/3/11 11/2/11 5/1/12 10/24/12 5/1/13 10/29/13 5/5/14 11/3/14	33.28 43.29 43.36 43.60 43.75 43.89 43.91 43.60		3,390.97 3,380.96 3,380.89 3,380.65 3,380.50 3,380.36 3,380.34 3,380.65	106.00 106.55 108.24 107.14	96.3-106.44
MW014A 3423.9	4"	5/3/11 11/2/11 5/1/12 10/24/12 4/30/13 10/29/13 5/5/14 11/3/14	42.86 42.65 42.62 42.81 42.91 43.00 43.12 42.93		3,381.04 3,381.25 3,381.28 3,381.09 3,380.99 3,380.90 3,380.78 3,380.97	104.98 105.20 108.31 105.21	95.1-105.1
MW015A 3420.55	4"	5/3/11 11/2/11 5/1/12 10/25/12 4/30/13 10/29/13 5/5/14 11/3/14	39.58 39.48 39.55 38.04 39.82 40.11 40.15 39.83		3,380.97 3,381.07 3,381.00 3,382.51 3,380.73 3,380.44 3,380.40 3,380.72	102.00 101.98 105.74 105.38	92.2-102.2

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW016A 3419.92	4"	5/3/11 11/2/11 5/17/12 10/25/12 5/1/13 10/29/13 5/5/14 11/13/14	39.21 39.21 39.44 39.43 39.64 39.78 39.89 39.40		3,380.71 3,380.71 3,380.48 3,380.49 3,380.28 3,380.14 3,380.03 3,380.52	91.26 91.40 95.07 91.25	81.5-91.5
MW017A 3424.38	4"	5/6/11			P&A		93.5-103.5
MW018A 3416.86	4"	5/3/11 11/2/11 5/22/12 10/24/12 4/30/13 4/1/14	36.80 37.01 36.93 37.15		SWA 3,380.06 3,379.85 3,379.93 3,379.71 P&A	81.20 81.25	71.5-81.5
MW019A 3414.74	4"	5/3/11 11/2/11 5/22/12 10/24/12 4/30/13 11/5/13 5/5/14 11/4/14	39.48 37.70 37.79 37.76 38.12 37.81 37.03		SWA 3,375.26 3,377.04 3,376.95 3,376.98 3,376.62 3,376.93 3,377.71	72.10 72.40 72.04	62.2-72.2
MW020A 3421.14	4"	5/3/11 11/2/11 5/2/12 10/24/12 4/30/13 10/29/13 5/5/14 11/4/14	43.18 41.11 43.49 43.66 43.78 44.00 44.01 43.62		3,377.96 3,380.03 3,377.65 3,377.48 3,377.36 3,377.14 3,377.13 3,377.52	80.45 80.48 83.15 80.41	70-80
MW021A 3422.94	4"	5/6/11 11/4/11 5/2/12 10/24/12 4/29/13 10/29/13 5/5/14 11/3/14	46.44 46.74 47.97 47.44 48.06 47.95 47.70 47.06		3,376.50 3,376.20 3,374.97 3,375.50 3,374.88 3,374.99 3,375.24 3,375.88	88.39 87.49 91.10 87.53	75-85

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW022A 3431.13	4"	5/6/11 11/4/11 5/3/12 10/24/12 5/2/13 6/1/13	51.07 51.28 51.34 51.54 51.71		3,380.06 3,379.85 3,379.79 3,379.59 3,379.42 P&A	103.19 104.61	95-105
MW023A 3436.26	4"	5/3/11 11/2/11 5/4/12 10/25/12 5/1/13 10/29/13 5/5/14 11/3/14	56.52 55.39 55.43 55.56 55.62 55.68 55.80 55.75		3,379.74 3,380.87 3,380.83 3,380.70 3,380.64 3,380.58 3,380.46 3,380.51	123.35 123.45 127.16 127.28	110-120
MW024A 3430.77	4"	5/3/11 11/2/11 5/1/12 10/24/12 5/1/13 10/29/13 5/5/14 11/3/14	51.07 51.22 51.20 51.35 51.54 51.64 51.70 51.60		3,379.70 3,379.55 3,379.57 3,379.42 3,379.23 3,379.13 3,379.07 3,379.17	101.50 101.80 101.66 105.11	85-100
MW039A 3435.71	4"	5/6/11 11/4/11 5/3/12 10/24/12 5/2/13 10/29/13 5/5/14 11/4/14	55.08 55.12 55.22 55.40 55.60 55.56 55.64 55.51		3,380.63 3,380.59 3,380.49 3,380.31 3,380.11 3,380.15 3,380.07 3,380.20	119.20 120.75 123.67 120.86	107-117
MW040A 3422.92	4"	5/3/11 11/2/11 5/1/12 10/24/12 5/13/13 10/29/13 5/5/14 11/3/14	42.25 42.20 42.28 42.57 42.69 42.80 42.91 42.50		3,380.67 3,380.72 3,380.64 3,380.35 3,380.23 3,380.12 3,380.01 3,380.42	109.95 113.76 113.27	100-110
MW041A 3418.42	4"	5/6/11 11/3/11 5/8/12 10/24/12 4/30/13 10/28/13 5/5/14 11/3/14	41.79 42.11 42.05 42.47 42.66 42.90 42.48		3,376.63 3,376.31 3,376.37 3,375.95 3,375.76 NG 3,375.52 3,375.94	88.96 88.64	78-88

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW042A 3424.75	4"	5/6/11 11/4/11 5/3/12 10/24/12 5/2/13 10/29/13 5/5/14 11/3/14	46.00 46.57 46.58 46.91 46.98 47.10 47.16 46.31		3,378.75 3,378.18 3,378.17 3,377.84 3,377.77 3,377.65 3,377.59 3,378.44	99.09 90.61 104.25 90.73	92-102
MW046A 3426.45	4"	5/6/11 11/4/11 5/3/12 10/24/12 5/2/13 10/29/13 5/5/14 11/4/14	46.70 47.05 47.10 47.32 47.50 47.61 47.65 47.40		3,379.75 3,379.40 3,379.35 3,379.13 3,378.95 3,378.84 3,378.80 3,379.05	107.72 108.79 112.81 108.88	87-107
MW048SA 3421.10	4"	5/4/11 11/3/11 5/2/12 10/23/12 4/30/13 10/28/13 5/5/14 11/3/14	45.30 45.55 45.63 45.87 45.99 46.26 46.17 45.94		3,375.80 3,375.55 3,375.47 3,375.23 3,375.11 3,374.84 3,374.93 3,375.16	84.92 84.76 88.75 84.78	27-82.
MW049SA 3422.46	4"	5/4/11 11/3/11 5/2/12 10/23/12 4/30/13 10/28/13 5/5/14 11/3/14	48.16 48.48 48.48 48.78 48.90 49.10 49.00 48.96		3,374.30 3,373.98 3,373.98 3,373.68 3,373.56 3,373.36 3,373.46 3,373.50	84.34 84.78 87.50 84.29	37-82
MW050SA 3419.31	4"	5/4/11 11/4/11 5/2/12 10/24/12 4/29/13 10/28/13 5/5/14 11/3/14	44.84 45.24 45.48 45.70 45.84 45.95 46.10 45.70		3,374.47 3,374.07 3,373.83 3,373.61 3,373.47 3,373.36 3,373.21 3,373.61	80.05 80.05 82.42 80.06	38-78
MW051SA 3415.42	4"	5/4/03 11/3/11 5/2/12 10/23/12 4/30/13 10/28/13 5/5/14 11/3/14	43.72 46.19 44.22 44.31 44.45 44.46 44.24		NG - No Access 3,371.70 3,369.23 3,371.20 3,371.11 3,370.97 3,370.96 3,371.18	70.90 66.02 68.54 66.01	33-63

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW052SA 3415.23	4"	5/3/11 11/3/11 5/2/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	44.76 45.03 44.95 45.21 45.22 45.54 45.30 45.36		3,370.47 3,370.20 3,370.28 3,370.02 3,370.01 3,369.69 3,369.93 3,369.87	66.35 66.26 68.35 66.23	33-63
MW053SA 3413.86	4"	5/3/11 11/3/11 5/2/12 10/23/12 4/30/13 10/29/13 5/5/14 11/3/14	42.05 42.39 42.39 42.65 42.50 43.00 42.68 42.67		3,371.81 3,371.47 3,371.47 3,371.21 3,371.36 3,370.86 3,371.18 3,371.19	68.35 68.23 71.20 68.22	40-90
MW054SA 3411.38	4"	5/3/11 11/3/11 5/2/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	44.92 45.10 45.01 45.14 45.10 45.32 45.11 45.23		3,366.46 3,366.28 3,366.37 3,366.24 3,366.28 3,366.06 3,366.27 3,366.15	60.00 59.98 62.10 59.91	32-57
MW055SA 3407.43	4"	5/3/11 11/3/11 5/2/12 10/23/12 4/9/13 10/28/13 5/5/14 11/3/14	40.84 40.90 40.85 40.93 40.93 41.08 40.97 40.93		3,366.59 3,366.53 3,366.58 3,366.50 3,366.50 3,366.35 3,366.46 3,366.50	52.94 54.95 52.88	30-50
MW056SA 3410.71	4"	5/3/11 11/4/11 5/2/12 10/23/12 4/29/13 10/29/13 5/5/14 11/3/14	45.14 45.16 43.30 43.36 43.65 43.44 43.28		NG - No Access 3,365.57 3,365.55 3,367.41 3,367.35 3,367.06 3,367.27 3,367.43	54.95 52.59 55.42 52.60	32-52
MW057SA 3417.74	4"	5/3/11 11/2/11 5/17/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	45.83 46.14 46.51 46.50 46.60 46.71 46.19		NG - No Access 3,371.91 3,371.60 3,371.23 3,371.24 3,371.14 3,371.03 3,371.55	70.86 70.85 73.45 70.85	33-68

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW062A 3434.19	4"	5/3/11	55.28		3,378.91	110.53	98-108
		11/2/11	55.56		3,378.63		
		5/1/12	55.50		3,378.69		
		10/24/12	55.72		3,378.47	111.10	
		5/1/13	55.78		3,378.41		
		10/28/13	55.99		3,378.20		
		5/5/14	56.02		3,378.17		
		11/3/14	55.95		3,378.24		
MW063A 3435.22	4"	5/3/11	55.90		3,379.32	108.53	96-106
		11/2/11	56.04		3,379.18		
		5/1/12	56.00		3,379.22		
		10/24/12	56.13		3,379.09	108.91	
		5/1/13	56.30		3,378.92		
		10/28/13	56.41		3,378.81		
		5/5/14	56.42		3,378.80		
		11/3/14	56.43		3,378.79		
MW064SA 3405.15	4"	5/4/11	51.09		3,354.06	77.32	35-75
		11/2/11	51.29		3,353.86		
		5/2/12	51.33		3,353.82		
		10/23/12	51.36		3,353.79	79.41	
		4/29/13	51.31		3,353.84		
		4/1/14			P&A		
MW065SA 3402.96	4"	5/4/11	51.48		3,351.48	82.35	40-80
		11/3/11	51.81		3,351.15		
		5/1/12	51.72		3,351.24		
		10/23/12	51.69		3,351.27	82.33	
		4/29/13	51.64		3,351.32		
		10/28/13	51.85		3,351.11		
		5/5/14	51.48		3,351.48		
		11/3/14	51.53		3,351.43		
MW066SA 3404.03	4"	5/4/11	49.67		3,354.36	69.85	41-66
		11/3/11	50.47		3,353.56		
		5/2/12	50.24		3,353.79		
		10/23/12	50.56		3,353.47	68.66	
		4/29/13	50.20		3,353.83		
		10/29/13	50.81		3,353.22		
		5/5/14	50.09		3,353.94		
		11/3/14	50.45		3,353.58		
MW067SA 3409.16	4"	5/5/11	46.54		3,362.62	84.10	43-83
		11/3/11	47.18		3,361.98		
		5/2/12	46.89		3,362.27		
		10/23/12	47.25		3,361.91	84.18	
		4/29/13	46.95		3,362.21		
		10/29/13	47.54		3,361.62		
		5/5/14	47.00		3,362.16		
		11/3/14	47.22		3,361.94		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW070A 3439.67	4"	5/3/11 11/2/11 5/1/12 10/24/12 5/1/13 10/28/13 5/5/14 11/3/14	59.06 59.05 59.02 59.05 59.28 59.31 59.32 59.35		3,380.61 3,380.62 3,380.65 3,380.62 3,380.39 3,380.36 3,380.35 3,380.32	129.04 127.70 130.41 131.61	112-127
MW071SA 3401.01	4"	5/4/11 11/3/11 5/1/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	50.10 51.41 50.36 50.31 50.21 50.40 50.00 50.05		3,350.91 3,349.60 3,350.65 3,350.70 3,350.80 3,350.61 3,351.01 3,350.96	90.02 91.12 95.20 91.14	29-89
MW072SA 3401.34	4"	5/4/11 11/2/11 5/2/12 10/23/12 4/29/13 10/29/13 5/5/14 11/3/14	50.68 51.08 50.91 50.88 50.90 51.05 50.55 50.65		3,350.66 3,350.26 3,350.43 3,350.46 3,350.44 3,350.29 3,350.79 3,350.69	94.10 93.05 96.30 93.06	31-91
MW073SA 3403.26	4"	5/4/11 11/3/11 5/2/12 10/23/12 4/29/13 10/29/13 5/5/14 11/3/14	48.84 48.65 48.76 48.61 49.06 48.44 48.58		NG- Roots in Well 3,354.42 3,354.61 3,354.50 3,354.65 3,354.20 3,354.82 3,354.68	68.20 68.06 68.07	26-66
MW074SA 3409.97	4"	5/4/11 11/2/11 5/2/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	48.21 48.50 48.50 48.72 48.78 49.02 48.85 48.92		3,361.76 3,361.47 3,361.47 3,361.25 3,361.19 3,360.95 3,361.12 3,361.05	66.40 66.34 68.55 66.34	39-64
MW075SA 3404.21	4"	5/4/11 11/2/11 5/1/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	50.85 51.00 51.03 51.01 50.98 51.10 50.91 50.93		3,353.36 3,353.21 3,353.18 3,353.20 3,353.23 3,353.11 3,353.30 3,353.28	65.55 65.65 67.60 65.62	43-63

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW076SA 3404.13	4"	5/4/11 11/2/11 5/1/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	52.54 52.72 52.73 52.65 52.60 52.76 52.50 52.48		3,351.59 3,351.41 3,351.40 3,351.48 3,351.53 3,351.37 3,351.63 3,351.65	93.68 93.70 96.91 93.70	38-93
MW077SA 3401.71	4"	5/4/11 11/2/11 5/1/12 10/23/12 4/29/13 4/1/14	50.63 50.90 50.89 50.80 50.74		3,351.08 3,350.81 3,350.82 3,350.91 3,350.97 P&A	93.54 93.50	42-92
MW078SA 3411.12	4"	5/5/11 11/3/11 5/2/12 10/23/12 4/29/13 10/29/13 5/5/14 11/3/14	44.55 45.06 44.85 45.18 44.98 45.45 45.00 45.13		3,366.57 3,366.06 3,366.27 3,365.94 3,366.14 3,365.67 3,366.12 3,365.99	68.15 68.07 70.35 68.12	36-66
MW079SA 3408.80	4"	5/5/11 11/3/11 5/2/12 10/23/12 4/29/13 10/29/13 5/5/14 11/3/14	46.74 47.43 47.15 47.53 47.25 47.87 47.25 47.51		3,362.06 3,361.37 3,361.65 3,361.27 3,361.55 3,360.93 3,361.55 3,361.29	69.63 69.65 72.75 69.64	37-67
MW080SA 3408.92	4"	5/5/11 11/3/11 5/2/12 10/23/12 4/29/13 4/1/14	46.84 47.52 47.25 47.61 47.32		3,362.08 3,361.40 3,361.67 3,361.31 3,361.60 P&A	71.76 71.80	39-69
MW081SA 3408.28	4"	5/5/11 11/3/11 5/2/12 10/23/12 4/29/13 4/1/14	46.41 47.13 46.82 47.21 46.91		3,361.87 3,361.15 3,361.46 3,361.07 3,361.37 P&A	72.33 72.31	40-70

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW082SA 3406.25	4"	5/4/11 11/2/11 5/2/12 10/23/12 4/29/13 4/1/14	52.03 52.25 52.27 52.30 52.27		3,354.22 3,354.00 3,353.98 3,353.95 3,353.98 P&A	77.80 77.81	45-75
MW083SA 3406.11	4"	5/4/11 11/2/11 5/2/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	57.95 52.16 52.17 52.20 52.18 52.42 52.11 52.15		3,348.16 3,353.95 3,353.94 3,353.91 3,353.93 3,353.69 3,354.00 3,353.96	79.23 77.85 81.10 77.85	45-75
MW084SA 3405.98	4	5/4/11 11/2/11 5/2/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	51.45 51.65 51.65 51.71 51.70 51.86 51.63 51.68		3,354.53 3,354.33 3,354.33 3,354.27 3,354.28 3,354.12 3,354.35 3,354.30	79.50 79.80 81.05 79.81	45-75
MW085SA 3405.98	4"	5/4/11 11/2/11 5/2/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	51.82 52.05 52.04 52.10 52.07 52.32 52.00 52.04		3,354.16 3,353.93 3,353.94 3,353.88 3,353.91 3,353.66 3,353.98 3,353.94	77.80 77.70 81.05 77.70	45-75
MW086SA 3401.86	4"	5/4/11 11/3/11 5/1/12 10/23/12 4/29/13 10/28/13 5/5/14 11/3/14	50.92 51.20 51.16 51.09 51.01 51.15 50.81 50.86		3,350.94 3,350.66 3,350.70 3,350.77 3,350.85 3,350.71 3,351.05 3,351.00	92.81 96.65 92.76	50-90
MW087A 3430.75	4"	5/4/11 11/4/11 5/4/12 10/23/12 5/2/13 10/28/13 5/5/14 11/4/14	49.94 49.89 50.21 50.42 50.60 50.63 50.68 50.42		3,380.81 3,380.86 3,380.54 3,380.33 3,380.15 3,380.12 3,380.07 3,380.33	115.75 102.68 119.34 109.67	90-110

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
MW089SA 3428.09	4"	5/4/11	48.45		3,379.64		39-99
		11/4/11	48.61		3,379.48		
		5/3/12	48.77		3,379.32	100.90	
		10/23/12	48.99		3,379.10		
		5/1/13	49.19		3,378.90	101.45	
		10/29/13	49.35		3,378.74	105.61	
		5/5/14	49.41		3,378.68	101.36	
		11/3/14	48.90		3,379.19		
MW090SA 3428.33	4"	5/4/11	48.90		3,379.43		36-101
		11/4/11	49.11		3,379.22		
		5/3/12	49.26		3,379.07	103.00	
		10/23/12	49.51		3,378.82		
		5/1/13	49.67		3,378.66	103.47	
		10/29/13	49.90		3,378.43	107.05	
		5/5/14	49.91		3,378.42	103.31	
		11/3/14	49.43		3,378.90		
MW091SA 3422.45	4"	5/4/11	43.85		3,378.60		31-96
		11/4/11	44.15		3,378.30		
		5/2/12	44.15		3,378.30	98.74	
		10/24/12	44.50		3,377.95		
		4/30/13	44.70		3,377.75	98.85	
		10/28/13	45.10		3,377.35	102.51	
		5/5/14	45.01		3,377.44	98.64	
		11/3/14	44.45		3,378.00		
MW092SA 3422.51	4"	5/4/11	43.91		3,378.60		31-96
		11/4/11	44.17		3,378.34		
		5/2/12	44.16		3,378.35	97.75	
		10/24/12	44.54		3,377.97		
		4/30/13	44.74		3,377.77	98.15	
		3/31/14			P&A		
MW093SA 3422.72	4"	5/4/11	44.14		3,378.58		31-96
		11/4/11	44.42		3,378.30		
		5/2/12	44.43		3,378.29	98.50	
		10/24/12	44.78		3,377.94		
		4/30/13	45.00		3,377.72	98.60	
		10/28/13	45.30		3,377.42	103.30	
		5/5/14	45.31		3,377.41	98.21	
		11/3/14	44.79		3,377.93		
IW003 3406.68	4"	5/5/11	45.29		3,361.39		35-55
		11/3/11	45.61		3,361.07		
		5/2/12	45.37		3,361.31	59.33	
		10/23/12	45.57		3,361.11		
		4/29/13	45.43		3,361.25	60.13	
		10/29/13	45.64		3,361.04	60.18	
		5/5/14	45.51		3,361.17	60.13	
		11/3/14	45.67		3,361.01		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
IW004 3406.31	4"	5/5/11	44.91		3,361.40	54.50	35-50
		11/3/11	45.14		3,361.17		
		5/2/12	45.00		3,361.31		
		10/23/12	46.16		3,360.15	54.36	
		4/29/13	45.10		3,361.21		
		10/29/13	45.31		3,361.00		
		5/5/14	45.16		3,361.15		
		11/3/14	45.30		3,361.01		
IW005 3405.36	4"	5/5/11	43.95		3,361.41	50.36	36-46
		11/3/11	44.18		3,361.18		
		5/2/12	44.00		3,361.36		
		10/23/12	44.29		3,361.07	50.28	
		4/29/13	44.14		3,361.22		
		10/29/13	44.38		3,360.98		
		5/5/14	43.97		3,361.39		
		11/3/14	44.33		3,361.03		
IW006 3404.36	4"	5/5/11	43.04		3,361.32	54.23	35-50
		11/3/11	43.30		3,361.06		
		5/2/12	43.13		3,361.23		
		10/23/12	43.44		3,360.92	54.19	
		4/29/13	43.27		3,361.09		
		10/29/13	43.55		3,360.81		
		5/5/14	43.11		3,361.25		
		11/3/14	43.53		3,360.83		
IW007 3405.31	4"	5/5/11	45.45		3,359.86	50.40	36-46
		11/3/11	46.46		3,358.85		
		5/2/12	46.19		3,359.12		
		10/23/12	46.93		3,358.38	50.40	
		4/29/13	46.46		3,358.85		
		10/29/13	47.48		3,357.83		
		5/5/14	47.15		3,358.16		
		11/3/14	47.37		3,357.94		
IW008 3405.37	4"	5/5/11	44.69		3,360.68	53.61	35-50
		11/3/11	44.85		3,360.52		
		5/2/12	44.78		3,360.59		
		10/23/12	44.89		3,360.48	53.64	
		4/29/13	44.94		3,360.43		
		10/29/13	44.85		3,360.52		
		5/5/14	44.85		3,360.52		
		11/3/14	45.03		3,360.34		
IW009 3406.07	4"	5/5/11	47.50		3,358.57	48.93	35-45
		11/3/11	47.89		3,358.18		
		5/2/12	47.70		3,358.37		
		10/23/12	47.57		3,358.50	48.88	
		4/29/13	47.52		3,358.55		
		10/29/13	40.10		3,365.97		
		5/5/14	47.31		3,358.76		
		11/3/14	48.01		3,358.06		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
IW010 3405.82	4"	5/5/11	53.78		3,352.04	61.95	33-58
		11/3/11	53.90		3,351.92		
		5/2/12	53.86		3,351.96		
		10/23/12	54.04		3,351.78	61.90 62.60 61.92	
		4/29/13	54.05		3,351.77		
		10/29/13	54.08		3,351.74		
		5/5/14	53.75		3,352.07		
		11/3/14	53.90		3,351.92		
IW011 3406.83	4"	5/5/11	55.55		3,351.28	67.06	43-63
		11/3/11	55.85		3,350.98		
		5/2/12	55.83		3,351.00		
		10/23/12	55.87		3,350.96	67.10 67.20 67.09	
		4/29/13	55.83		3,351.00		
		10/29/13	55.90		3,350.93		
		5/5/14	55.60		3,351.23		
		11/3/14	65.80		3,341.03		
IW012 3405.92	4"	5/5/11	54.29		3,351.63	55.43	43-53
		11/3/11	54.53		3,351.39		
		5/2/12	54.83		3,351.09		
		10/23/12	54.55		3,351.37	55.42 56.60 55.42	
		4/29/13	54.55		3,351.37		
		10/29/13	54.69		3,351.23		
		5/5/14	54.17		3,351.75		
		11/3/14	54.24		3,351.68		
IW013 3406.62	4"	5/5/11	54.10		3,352.52	64.05	45-60
		11/3/11	54.35		3,352.27		
		5/2/12	54.33		3,352.29		
		10/23/12	54.38		3,352.24	64.05 63.87 64.04	
		4/29/13	54.37		3,352.25		
		10/29/13	54.42		3,352.20		
		5/5/14	54.16		3,352.46		
		11/3/14	54.30		3,352.32		
IW014 3405.48	4"	5/5/11	52.50		3,352.98	77.10	33-73
		11/3/11	52.70		3,352.78		
		5/2/12	52.66		3,352.82		
		10/23/12	52.74		3,352.74	77.01 78.19 77.05	
		4/29/13	52.75		3,352.73		
		10/29/13	52.78		3,352.70		
		5/5/14	52.53		3,352.95		
		11/3/14	52.70		3,352.78		
IW015 3406.05	4"	5/5/11	45.05		3,361.00	52.16	34-49
		11/3/11	45.60		3,360.45		
		5/2/12	45.31		3,360.74		
		10/23/12	45.64		3,360.41	52.18 52.75 52.16	
		4/29/13	45.35		3,360.70		
		10/29/13	45.70		3,360.35		
		5/5/14	45.40		3,360.65		
		11/3/14	45.71		3,360.34		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
IW016 3408.29	4"	5/5/11	47.40		3,360.89		29-69
		11/3/11	48.06		3,360.23		
		5/2/12	47.78		3,360.51	73.21	
		10/23/12	48.16		3,360.13		
		4/29/13	47.86		3,360.43	75.18	
		10/29/13	48.25		3,360.04	76.75	
		5/5/14	47.88		3,360.41	75.19	
		11/3/14	48.15		3,360.14		
IW018 3424.54	4"	5/5/11	45.94		3,378.60		31-96
		11/4/11	46.30		3,378.24		
		5/2/12	46.37		3,378.17	97.96	
		10/24/12	46.74		3,377.80		
		4/30/13	46.88		3,377.66	101.08	
		10/28/13	47.16		3,377.38	101.85	
		5/5/14	47.24		3,377.30	101.10	
		11/3/14	46.75		3,377.79		
IW019 3423.78	4"	5/5/11	45.15		3,378.63		31-96
		11/4/11	45.42		3,378.36		
		5/2/12	45.53		3,378.25	98.28	
		10/24/12	45.91		3,377.87		
		4/30/13	46.10		3,377.68	98.51	
		10/28/13	46.50		3,377.28	102.35	
		5/5/14	46.41		3,377.37	98.20	
		11/3/14	45.93		3,377.85		
IW020 3423.50	4"	5/5/11	44.81		3,378.69		32-97
		11/4/11	45.05		3,378.45		
		5/2/12	45.09		3,378.41	100.29	
		10/24/12	45.52		3,377.98		
		4/30/13	45.70		3,377.80	99.91	
		3/31/14			P&A		
IW021 3423.16	4"	5/5/11	44.44		3,378.72		32-97
		11/4/11	44.70		3,378.46		
		5/2/12	44.67		3,378.49	98.97	
		10/24/12	45.08		3,378.08		
		4/30/13	45.30		3,377.86	99.08	
		10/28/13	45.57		3,377.59	102.87	
		5/5/14	45.61		3,377.55	98.90	
		11/3/14	45.04		3,378.12		
IW022 3423.16	4"	5/5/11	44.35		3,378.81		32-97
		11/4/11	44.65		3,378.51		
		5/2/12	44.66		3,378.50	98.77	
		10/24/12	44.99		3,378.17		
		4/30/13	45.21		3,377.95	99.01	
		10/28/13	44.44		3,378.72	102.65	
		5/5/14	45.52		3,377.64	102.61	
		11/3/14	45.00		3,378.16		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
IW023 3426.05	4"	5/5/11	47.22		3,378.83	100.34	34-98
		11/4/11	47.49		3,378.56		
		5/2/12	47.53		3,378.52		
		10/24/12	47.80		3,378.25		
		4/30/13	48.01		3,378.04	100.43	
		10/28/13	48.25		3,377.80	104.70	
		5/5/14	48.31		3,377.74	104.01	
		11/3/14	47.80		3,378.25		
IW024 3426.63	4"	5/5/11	47.32		3,379.31	103.55	41-101
		11/4/11	47.79		3,378.84		
		5/3/12	47.64		3,378.99		
		10/23/12	48.02		3,378.61		
		5/1/13	48.15		3,378.48	107.82	
		10/29/13	48.37		3,378.26	106.05	
		5/5/14	48.40		3,378.23	107.73	
		11/3/14	47.96		3,378.67		
IW025 3427.62	4"	5/5/11	48.37		3,379.25	94.95	44-101
		11/4/11	48.63		3,378.99		
		5/3/12	49.72		3,377.90		
		10/23/12	49.01		3,378.61		
		5/1/13	49.20		3,378.42	95.56	
		10/29/13	49.42		3,378.20	97.90	
		5/5/14	49.45		3,378.17	95.82	
		11/3/14	49.00		3,378.62		
IW026 3428.01	4"	5/5/11	48.65		3,379.36	51.25	37-102
		11/4/11	49.90		3,378.11		
		5/3/12	49.00		3,379.01		
		10/23/12	49.70		3,378.31		
		5/1/13	49.41		3,378.60	51.09	
		10/29/13	49.61		3,378.40		
		5/5/14	49.64		3,378.37	57.21	
		11/3/14	49.22		3,378.79		
IW027 3428.17	4"	5/5/11	48.65		3,379.52	106.64	39.5-99.5
		11/4/11	48.90		3,379.27		
		5/3/12	49.00		3,379.17		
		10/23/12	49.29		3,378.88		
		5/1/13	49.45		3,378.72	101.55	
		10/29/13	49.65		3,378.52	104.91	
		5/5/14	49.69		3,378.48	101.93	
		11/3/14	49.20		3,378.97		
IW028 3428.18	4"	5/5/11	48.62		3,379.56	108.05	35-105
		11/4/11	48.82		3,379.36		
		5/3/12	48.96		3,379.22		
		10/23/12	49.21		3,378.97		
		5/1/13	49.41		3,378.77	108.05	
		10/29/13	49.60		3,378.58	112.15	
		5/5/14	49.63		3,378.55	106.41	
		11/3/14	49.15		3,379.03		
RW001 3128.32	6"	5/5/11			P&A		44-104
		11/4/11			P&A		

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID TOC Elevation	Well Diameter	Collection Date	Depth to Groundwater (ft TOC)	LNAPL Thickness (ft)	Corrected Groundwater Elevation (ft)	Well Depth (ft TOC)	Well Screen Interval (ft bgs)
RW004A 3430.74	6"	5/6/11	47.68		3,383.06	108.12	95-115
		11/4/11	47.50		3,383.24		
		5/4/12	44.85		3,385.89		
		10/23/12	47.99		3,382.75		
		5/2/13	50.20		3,380.54	114.15	
		10/29/13	48.11		3,382.63	116.80	
		5/5/14	50.65		3,380.09	114.18	
		11/4/14	48.01		3,382.73		
Water Wells							
GOPWW2 3396.67		5/4/11	46.69		3,349.98	91.04	--
		11/2/11	47.06		3,349.61		
		5/1/12	47.00		3,349.67		
		5/23/13	46.97		3,349.70		
		10/28/13	NG				
LordWW 3419.97		10/26/12	41.38		NA 3,378.59	62.15	--
		5/23/13	41.47		3,378.50		
		11/5/13	39.17		3,380.80		
		11/4/14	41.20		3,378.77		
RolandWW 3419.47					NA		--
WoodellWW 3423.77					NA		77-97
EPWW1 3429.95					NA		--

Notes:

TOC - Top of Casing.

LNAPL - Light non-aqueous phase liquid.

bgs - below ground surface.

NG- Not Gauged

P&A - Plugged and Abandoned

No suffix - shallow/middle monitoring well completion (i.e. MW001).

"A" suffix - deep monitoring well completion (i.e. MW004A).

"M" suffix - middle monitoring well completion (i.e. MW008M).

"SA" suffix - fully-penetrating, monitoring well completion (i.e. MW072SA) .

RW - Recovery Well.

EP - Eunice Plant.

WW - Water Well.

GOP - Gulf Oil Corp.

IW - Injection Well.

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
<i>Shallow Monitor Wells</i>						
MW-1	5/11/11	6.59	26.49	3,128	18.60	0.16
	5/24/12	6.41	24.58	4,122	-24.20	0.50
	5/6/14	6.73	29.07	4,102	19.10	0.44
MW-2	5/16/11	6.85	23.50	7,140	-234.30	0.99
	5/24/12	6.65	24.92	7,080	43.90	1.31
	5/22/14	6.89	22.22	2,983	109.90	2.11
MW-3	5/11/11	7.26	23.29	3,849	22.80	5.81
	5/22/12	7.24	25.95	1,793	-164.80	7.16
	5/16/13	7.25	25.57	1,775	-141.20	5.21
	5/7/14	7.30	23.18	2,649	71.90	7.83
MW-4 DUP	5/16/11	6.82	21.45	4,273	80.80	1.55
	5/22/12	6.74	24.29	3,955	13.80	0.56
	5/22/12	6.74	24.29	3,955	13.80	0.56
	5/15/13	0.58	24.33	2,823	-237.70	0.19
	5/21/14	6.84	22.38	3,734	30.50	3.49
MW-5	5/17/11	6.93	28.15	2,253	-158.30	0.20
	5/24/12	6.43	29.17	2,988	124.80	0.22
MW-6	5/17/11	7.08	27.20	5,183	-125.00	0.09
MW-7	5/16/11	7.42	22.72	1,463	93.00	6.37
	5/22/12	6.92	26.97	3,667	-168.50	5.02
	5/16/13	7.04	28.38	2,223	-139.60	5.27
	5/9/14	7.23	22.01	2,291	49.10	7.34
MW-8	5/11/11	6.86	22.15	6,275	-77.80	0.28
	5/25/12	6.61	27.32	6,496	54.90	0.54
	5/16/13	6.60	28.51	5,950	-243.50	0.28
	5/7/14	6.97	23.78	4,491	13.70	0.25
MW-8M	5/11/11	6.75	22.40	7,643	-124.80	0.22
	5/6/14	6.25	22.73	5,673	-48.80	0.27
MW-9	5/11/11	7.11	23.23	1,860	183.60	2.91
	5/22/12	7.03	26.24	2,642	-161.40	4.44
	5/15/13	6.79	21.45	1,858	-125.50	4.23
	5/6/14	5.83	25.89	2,055	859	0.79
MW-10	5/11/11	6.73	23.27	9,538	76.30	4.15
	11/7/11	4.74	21.42	7,964	407.60	NA
	5/21/12	6.55	25.45	10,320	65.50	3.94
	10/26/12	7.57	19.17	6,417	-14.00	3.91
	5/17/13	6.74	24.94	1,168	81.00	3.60
	5/7/14	6.66	21.35	9,484	113.3	3.78
	11/5/14	6.71	18.74	4,618	-25	4.08
MW-11	5/16/11	6.61	21.62	6,628	-347.80	0.79
	5/22/12	6.23	23.35	6,629	-143.60	0.16
	5/8/14	6.46	21.24	5,273	-96.7	0.32
MW-11M	5/11/11	6.97	26.07	6,395	-2.00	0.04
	5/22/12	7.04	24.65	7,857	-39.20	0.23
	5/6/14	7.29	22.78	5,879	38	0.20

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-12	5/13/11	6.56	24.15	4,420	-52.40	0.35
	5/22/12	6.51	23.50	4,601	-92.80	0.19
	5/28/14	7.04	22.54	2,359	-81.5	0.20
MW-12M	5/13/11	7.03	21.06	7,321	-114.40	0.22
	5/22/12	7.02	22.74	7,704	-143.70	0.30
	5/28/14	6.87	21.51	3,331	-143.4	0.15
MW-13 DUP DUP	5/12/11	7.17	27.49	4,785	173.90	3.89
	11/8/11	7.21	20.04	2,627	45.20	5.51
	5/17/12	6.69	21.80	3,395	-167.80	5.89
	5/17/12	6.97	22.01	4,734	-167.80	0.34
	11/1/12	7.53	23.31	2,661	-22.60	4.91
	11/1/12	7.53	23.31	2,661	-22.60	4.91
	5/17/13	7.01	22.98	4,316	101.90	4.72
	5/7/14	7.09	21.19	4,459	95	5.52
	11/7/14	7.83	19.41	2,209	-55.3	4.14
MW-14	5/11/11	6.90	28.05	5,889	156.70	0.55
	11/7/11	6.49	21.29	6,181	375.70	NA
	5/18/12	6.66	22.70	6,656	74.30	0.28
	10/29/12	7.05	23.46	5,837	-72.90	0.29
	5/16/13	6.94	25.93	9,249	112.20	0.20
	5/7/14	6.93	21.08	7,112	53.1	0.27
	11/5/14	7.01	17.98	4,907	-78.7	0.41
MW-15	5/11/11	6.81	22.90	5,105	159.80	5.60
	11/7/11	6.77	21.76	4,497	361.10	NA
	5/17/12	6.82	21.94	4,465	89.20	6.92
	10/29/12	7.02	19.11	2,836	158.70	5.46
	5/16/13	6.89	26.65	9,421	62.30	5.23
	5/6/14	7.01	20.77	3,325	96.6	6.54
	11/4/14	7.05	13.62	1,902	-15.4	7.16
MW-18	5/11/11	6.84	23.19	1,820	199.00	5.29
	11/8/11	6.97	19.16	2,639	276.50	NA
	5/21/12	7.23	22.22	1,856	36.50	3.91
	10/26/12	8.05	19.98	1,656	-30.60	6.05
	5/13/13	6.91	23.98	2,054	38.80	5.08
	5/9/14	7.25	22.28	1,770	107.9	5.37
	11/4/14	7.45	16.87	1,686	-78.7	6.92
MW-20	5/11/11	7.03	23.25	4,512	60.90	4.36
	11/8/11	7.13	17.41	4,633	247.50	NA
	5/17/12	7.80	25.58	4,100	-29.00	5.06
	10/26/12	7.86	17.73	2,898	-22.40	5.47
	5/13/13	7.05	21.05	3,459	-8.90	5.09
	5/6/14	6.99	20.41	3,272	59.3	5.88
	11/4/14	6.87	15.61	2,291	14	3.81
MW-21	5/12/11	7.05	21.72	1,548	182.80	1.39
	11/8/11	7.04	19.20	1,284	12.90	0.43
	5/23/12	6.93	22.35	1,475	-11.90	0.22
	11/1/12	7.28	22.81	1,461	-61.00	1.08
	5/9/13	6.48	22.12	1,787	-76.50	0.46
	3/31/14			P&A		
MW-22	5/13/11	7.05	21.72	1,548	182.80	1.40

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-23	5/16/11	6.93	22.97	4,785	79.40	5.03
	11/8/11	7.72	17.47	3,571	46.40	9.88
	5/24/12	6.66	23.54	5,749	103.40	6.30
	11/6/12	7.07	21.37	4,155	-1.80	6.55
	5/8/14	6.95	20.30	4,172	102.9	6.34
	11/7/14	7.74	18.57	2,557	-35.7	6.41
MW-24	5/12/11	7.03	22.36	2,722	90.40	1.82
	11/9/11	7.18	18.00	2,337	39.70	1.58
	5/22/12	6.92	23.40	2,796	0.90	1.09
	11/1/12	7.31	21.57	2,473	-49.30	1.76
	5/14/13	6.97	22.58	2,998	-2.00	1.40
	5/8/14	7.04	20.60	2,872	121.4	1.33
	11/6/14	7.81	18.48	2,130	-72.4	2.01
MW-25	5/11/11	6.76	25.73	1,875	102.20	2.50
	11/7/11	6.89	23.24	2,583	36.90	0.25
	5/22/12	6.76	21.88	1,830	57.70	1.45
	10/29/12	7.24	23.96	1,477	-42.00	3.88
	5/16/13	6.71	26.77	2,985	115.70	1.16
	4/1/14			P&A		
MW-26	5/12/11	6.79	24.37	3,545	106.90	3.89
	11/8/11	6.98	18.69	2,376	60.50	6.37
	5/17/12	3.72	29.10	3,724	4.60	4.01
	10/29/12	7.01	23.59	2,627	-15.20	5.11
	5/9/14	7	21.74	2,385	106.6	6.49
	11/5/14	7.54	16.59	1,670	-18.4	6.82
MW-27	5/12/11	7.07	24.60	2,218	94.00	4.31
	11/7/11	7.24	22.57	2,160	62.50	7.10
	5/17/12	7.41	24.42	2,152	1.90	3.96
	10/30/12	7.41	20.65	1,849	-14.60	7.60
	5/20/13	6.98	25.68	2,309	143.20	2.85
	5/9/14	7.20	21.53	1,958	109.2	7.33
	11/5/14	7.82	18.58	1,684	-20.4	7.56
MW-28	5/12/11	7.15	24.16	2,690	65.60	1.71
	11/8/11	7.51	20.33	2,468	-9.20	0.85
	11/2/12	7.35	23.44	2,466	-33.20	2.43
	5/20/13	7.01	20.80	2,497	144.00	1.29
	4/1/14			P&A		
MW-29	5/12/11	7.54	21.09	1,027	81.60	7.06
	11/8/11	7.31	17.79	1,367	282.10	NA
	5/24/12	7.10	23.60	1,294	77.40	7.00
	11/1/12	8.01	17.70	863	-14.90	7.25
	5/14/13	7.27	22.43	1,039	82.70	7.11
	4/1/14			P&A		
MW-30	5/12/11	7.49	23.12	1,110	88.60	5.74
	11/8/11	7.43	18.98	1,149	276.90	NA
	5/24/12	7.58	24.15	995	0.10	4.16
	11/1/12	7.85	20.62	821	-32.10	6.72
	5/14/13	7.27	23.16	876	102.60	6.15
	5/12/14	7.57	20.68	878	95.40	6.38
	11/6/14	8.27	19.42	1,063	-68.40	6.11
MW-30P	5/9/14	6.68	21.37	2,694	-90.60	0.17

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-31	5/12/11	7.01	21.19	1,057	-46.90	1.64
	11/8/11	7.79	19.56	936	-33.50	1.42
	5/24/12	7.12	26.47	1,368	-64.80	0.19
	10/31/12	7.22	22.88	1,041	-121.70	0.25
	5/14/13	6.85	23.02	1,131	11.40	0.36
	5/12/14	6.99	20.65	1,117	58.70	0.71
	11/6/14	8.02	13.01	990	-179.8	1.68
MW-32	5/12/11	7.06	25.35	1,632	87.30	3.48
	11/8/11	7.26	19.65	1,379	44.50	5.39
	5/24/12	6.99	28.27	2,023	-135.80	4.68
	10/30/12	7.42	23.67	1,349	31.20	4.05
	5/20/13	6.97	24.64	1,866	148.80	2.53
	5/12/14	7.16	20.46	1,569	53.10	4.98
	11/5/14	7.87	18.87	1,285	-19	4.54
MW-33	5/12/11	7.21	24.15	2,830	-329.70	0.68
	11/7/11	7.21	23.69	2,464	-271.80	0.24
	5/17/12	7.21	24.53	5,530	135.40	0.91
	11/6/12	7.17	23.04	2,488	-237.20	0.12
	5/20/13	7.00	26.91	2,999	-166.50	0.13
	10/28/13				P&A	
MW-34	5/12/11	7.21	29.24	2,872	170.90	3.10
	5/8/12	6.96	17.86	2,303	90.70	4.71
	5/9/13	5.83	23.25	3,538	-49.70	4.09
	5/16/14	6.90	21.34	3,023	107.1	3.50
MW-35	5/11/11	6.72	24.65	808	99.20	2.44
	5/25/12	6.58	25.98	2,279	59.30	0.04
	3/31/14				P&A	
MW-36	5/16/11	6.96	28.39	890	-143.80	5.92
	5/25/12	6.73	24.83	1,654	114.50	0.33
	5/27/14	6.72	23.80	1,381	-122.9	0.21
MW-37	5/17/11	6.74	26.54	3,641	-109.50	0.08
	5/25/12	6.68	24.97	5,904	-121.40	0.48
	5/13/13	6.49	23.91	2,708	-241.60	0.14
	5/23/14	6.64	20.78	2,864	-118.7	0.46
MW-38	5/11/11	6.84	23.79	1,483	-126.50	0.17
	5/6/14	7.01	27.45	1,922	-96.8	0.30
MW-43	5/12/11	6.99	25.26	1,897	165.80	0.36
	5/23/12	6.87	22.26	2,047	12.40	0.26
	5/13/13	6.70	24.50	2,188	-226.70	0.39
	5/13/14	6.67	19.85	2,128	17.20	0.19
MW-44	5/12/11	7.42	27.19	965	173.50	4.12
	5/13/13	6.81	23.73	2,774	-235.30	0.40
	5/20/14	6.64	21.10	2,858	-12.60	0.26
MW-45	5/16/11	6.78	24.32	2,082	20.30	0.52
	5/23/12	6.73	21.49	2,249	9.00	0.42
	5/22/14	6.86	20.92	1,662	-136.2	0.21

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-46	5/16/11	7.01	24.53	3,335	-259.80	0.17
	5/23/12	5.87	25.12	3,261	-152.40	0.20
	5/23/14	7.22	20.40	1,660	-134.9	0.15
MW-47	5/16/11	7.10	22.30	3,512	87.50	4.80
	5/23/12	6.50	26.57	4,646	60.10	5.24
	5/27/14	7.03	24.50	2,316	61.40	3.74
MW-58 DUP DUP	5/13/11	7.16	20.60	4,649	113.80	6.28
	11/10/11	8.62	18.77	1,099	47.60	10.08
	5/24/12	7.50	23.70	1,574	13.00	4.80
	5/24/12	7.50	23.70	1,574	13.00	4.80
	11/6/12	7.11	23.91	5,187	-15.10	4.20
	11/6/12	7.11	23.91	5,187	-15.10	4.20
	5/19/13	7.02	22.33	5,068	26.40	4.77
	5/13/14	7.44	19.50	1,125	110.6	7.07
	11/6/14	8.19	19.07	1,283	-75.3	4.51
MW-59	5/16/11	7.25	22.85	1,044	58.40	5.24
	11/8/11	8.25	18.01	825	26.80	9.92
	5/24/12	7.05	24.07	1,779	76.60	5.19
	11/2/12	7.08	25.44	4,510	-17.50	6.22
	5/13/14	7.48	18.90	866	88.10	6.53
	11/10/14	8.55	18.23	950	-103.1	2.58
MW-60	5/16/11	7.07	23.78	5,364	-155.80	0.49
	11/7/11	7.50	23.25	3,465	-222.40	1.19
	5/24/12	6.89	25.51	3,261	-49.50	0.54
	10/31/12	6.55	27.51	4,139	-156.80	0.33
	5/15/13	6.94	20.28	6,226	-29.90	0.35
	5/12/14	6.72	20.93	3,121	-48	0.19
	11/6/14	7.91	18.78	2,091	-189.4	0.58
MW-61	5/13/11	6.94	21.49	2,043	73.30	0.35
	11/8/11	7.09	18.61	3,109	26.40	NA
	5/25/12	7.22	22.63	2,447	-187.30	0.45
	11/2/12	7.10	24.88	5,021	-18.30	3.72
	5/15/13	7.10	25.16	5,286	111.30	1.87
	5/13/14	7.23	19.38	1,757	37.10	0.60
	11/7/14	8.12	19.07	935	-59	5.81
MW-68	5/13/11	7.37	20.57	946	107.20	4.69
	11/7/11	7.93	23.51	991	32.90	7.57
	5/25/12	7.44	20.22	1,177	-181.80	3.53
	10/31/12	8.08	17.24	1,033	-43.60	2.02
	8/18/13	7.07	24.39	1,711	96.00	5.27
	5/12/14	7.43	23.27	1,223	122.1	4.61
	11/5/14	8.21	18.30	2,174	-66.40	1.81
MW-69	5/16/11	6.73	22.92	4,010	12.10	0.28
	5/24/12	6.84	24.06	3,892	43.50	0.16
	5/14/13	6.63	23.37	3,145	-263.10	0.33
	5/13/14	6.77	19.45	2,669	27.10	0.30
MW-70	5/13/11	7.33	20.72	1,413	64.20	4.34
	11/9/11	8.52	16.48	1,007	26.60	7.56
	5/23/12	7.34	23.55	1,448	8.60	3.20
	11/6/12	7.39	23.49	1,258	-24.80	4.44
	5/14/13	7.16	22.49	1,197	31.80	5.12
	5/8/14	7.33	20.90	1,170	110.1	4.61
	11/10/14	8.23	20.26	1,247	-77	4.61

TABLE 2
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CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-88M	5/11/11	6.50	27.35	7,863	-157.10	0.07
	5/9/14	6.67	20.88	5,195	77.80	0.14
MW-94	11/17/11	6.85	17.45	1,503	86.30	NA
	5/25/12	7.35	24.53	1,693	182.00	1.65
	10/31/12	7.09	22.43	1,570	-58.80	0.34
	5/15/13	7.02	26.35	4,463	94.10	0.30
	5/9/14	7.35	23.36	1,546	28.20	0.88
	11/5/14	9.23	17.08	1,286	-173.40	1.68
MW-95 DUP	11/17/11	6.67	17.50	5,576	103.80	1.17
	5/25/12	7.15	21.90	5,827	-166.00	0.21
	5/25/12	7.15	21.90	5,827	-166.00	0.21
	10/31/12	6.80	22.49	5,258	32.90	0.31
	5/15/13	6.98	22.28	9,012	119.20	0.29
	5/9/14	7.10	21.03	5,121	-58.20	0.23
	11/6/14	7.64	19.44	3,297	-74.10	0.34
MW-095P	5/7/14	7.46	25.13	1,538	-89.40	0.40
MW-096P	5/7/14	7.39	23.10	2,883	-234.60	0.23
IW001	5/17/11	7.02	25.88	8,518	-300.70	0.15
	5/25/12	6.89	20.95	7,933	228.80	0.39
	5/8/14	7.06	23.58	7,983	-199.70	0.13
IW002	5/17/11	7.02	24.52	6,605	-226.70	0.13
	11/9/11	7.70	18.51	4,321	-160.30	3.24
	5/22/13	7.10	27.33	7,838	-174.30	2.54
	5/28/14	6.92	26.48	2,576	-214.9	0.07
RW002	5/17/11	6.27	22.43	5,272	-129.90	0.43
	5/22/12	5.95	22.50	6,422	-39.20	0.29
	3/31/14			P&A		
RW003	5/17/11	6.54	27.63	3,568	-106.30	0.20
	5/21/12	6.59	25.21	4,231	-121.10	0.43
	5/22/13	6.82	22.41	3,928	-106.30	2.53
	5/28/14	6.90	23.11	2,192	-142.80	0.12
Deep Monitor Wells						
MW-2A	5/25/11	7.09	26.08	1,719	139.70	2.20
	5/24/12	6.86	25.09	2,026	58.00	2.35
	5/22/14	6.07	21.79	1,486	137	0.56
MW-4A	5/24/11	7.84	24.57	1,863	95.20	4.66
	5/22/12	7.11	24.14	3,065	-10.00	3.33
	5/15/13	7.31	26.38	2,377	-287.10	0.52
	5/21/2014	7.07	22.19	3,164	15	7.02
MW-7A	5/24/11	7.36	28.96	2,804	56.00	2.60
	5/16/13	7.16	24.70	2,438	-215.50	0.72
	5/7/14	7.32	23.31	2,203	8.20	0.58
MW-8A	5/26/11	6.52	22.91	6,510	-187.80	1.19
	5/16/13	6.46	23.85	4,991	-210.90	0.11
	5/8/14	7.19	22.67	4,941	-165	0.10
MW-9A	5/25/11	7.19	22.67	2,497	130.80	4.60
	5/15/13	6.90	22.53	2,941	-180.00	1.39
	5/27/14	6.99	23.43	2,362	17.60	0.14

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-11A	5/25/11	6.90	26.80	6,922	126.40	0.49
	5/22/12	6.69	23.42	7,411	73.20	0.40
	5/8/14	6.43	23.41	6,076	36.40	0.45
MW-12A	5/25/11	7.74	24.25	869	-704.90	0.39
	5/22/12	7.57	22.48	923	-245.60	0.40
	5/28/14	7.69	23.15	893	-169.10	0.14
MW-13A	5/19/11	7.39	24.41	784	48.40	4.44
	11/9/11	7.56	19.01	742	54.10	6.41
	5/17/12	7.13	22.87	996	78.50	6.43
	10/29/12	7.31	21.55	779	58.90	5.38
	5/17/13	7.15	23.33	1,157	108.80	4.97
	5/7/14	7.45	21.56	1,067	101.70	6.55
	11/7/14	8.01	18.84	1,690	-92.30	0.46
MW-14A	5/18/11	6.66	24.51	335	31.60	2.86
	11/9/11	7.35	19.19	266	21.00	0.39
	5/18/12	7.26	22.61	930	29.40	4.92
	10/29/12	7.57	23.20	797	39.80	4.04
	5/16/13	7.06	23.39	969	102.80	0.58
	5/7/14	7.59	21.92	1,023	-61.70	4.80
	11/5/14	8.67	18.87	331	-140.1	0.59
MW-15A	5/18/11	7.31	24.79	2,515	63.40	3.80
	11/9/11	7.72	19.33	2,237	57.70	6.17
	5/17/12	6.49	21.24	9,187	88.10	4.49
	10/29/12	4.93	17.83	5,661	223.60	1.64
	5/16/13	5.40	25.32	6,990	75.90	0.24
	5/6/14	6.75	21.70	9,954	119.1	3.31
	11/10/14	7.50	21.58	2,311	-67	1.69
MW-16A	5/17/11	8.16	27.30	1,670	97.90	4.33
	11/9/11	8.02	18.40	2,111	243.10	NA
	5/17/12	7.51	21.37	1,665	63.20	3.00
	10/26/12	7.10	19.78	1,877	76.80	-
	5/16/13	7.24	26.74	2,194	-143.70	0.42
	5/6/14	7.24	21.46	2,452	60.60	5.84
	11/13/14	7.51	13.40	1,203	-142.3	0.72
MW-18A	5/24/11	7.80	27.79	352	41.10	3.51
	11/9/11	6.99	16.76	1,838	273.70	NA
	5/21/12	7.46	21.19	1,385	10.80	3.97
	10/26/12	8.13	19.94	1,365	-39.80	5.94
	5/13/13	0.18	7.18	377	-1.10	1.39
	4/1/14				P&A	
MW-19A	5/17/11	7.37	24.40	1,921	134.60	3.82
	11/9/11	7.74	17.01	1,887	217.90	NA
	5/21/12	7.31	21.07	1,672	17.70	4.17
	10/26/12	7.13	18.83	1,522	75.30	-
	5/13/13	7.36	26.28	1,718	-20.20	0.68
	5/6/14	7.28	20.51	1,690	41.1	2.47
	11/4/14	8.71	15.68	1,423	-140.1	0.36
MW-20A	5/16/11	7.07	25.56	5,134	-5.70	3.51
	11/9/11	7.32	17.20	2,471	231.40	NA
	5/17/12	7.00	25.01	2,348	21.80	3.11
	10/26/12	6.68	19.20	3,032	79.20	-
	5/13/13	6.14	20.25	3,356	106.70	2.13
	5/6/14	6.97	21.34	3,626	95	4.08
	11/4/14	7.63	16.53	1,863	14.7	7.48

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-21A	5/23/11	7.06	29.81	1,095	55.70	2.03
	11/17/11	6.08	13.06	9,209	170.10	NA
	5/17/12	6.96	22.40	12,490	-100.10	0.50
	11/8/12	7.03	23.09	12,690	-77.00	0.59
	5/9/13	6.39	21.35	11	-74.90	0.37
	5/16/14	6.75	21.04	12,020	48.80	0.45
	11/13/14	7.30	15.73	4,531	-126.3	1.60
MW-22A	5/25/11	7.57	25.87	634	119.40	4.20
	11/17/11	6.85	13.55	609	115.10	NA
	5/23/12	7.36	28.16	812	5.40	4.13
	11/9/12	7.60	23.61	657	-31.60	4.60
	6/1/13				P&A	
MW-23A	5/18/11	7.62	22.75	806	50.60	5.21
	11/10/11	7.97	16.55	641	51.50	6.52
	5/24/12	6.75	22.89	905	93.50	5.33
	10/30/12	7.70	18.66	703	85.30	4.87
	5/8/14	7.76	20.55	774	34.10	5.36
	11/7/14	8.42	18.62	921	-71.4	5.98
MW-24A	5/18/11	7.62	25.07	1,439	30.80	1.69
	11/10/11	7.90	18.17	1,255	51.50	6.64
	5/18/12	7.31	21.66	3,022	46.80	3.87
	10/30/12	7.08	20.63	2,517	82.30	3.25
	5/13/13	7.16	24.45	2,175	-8.70	3.14
	5/8/14	7.12	20.48	2,988	68	3.51
	11/7/14	8.54	18.26	1,351	-74.70	7.30
MW-39A DUP	5/26/11	7.62	24.50	1,404	-67.30	4.30
	5/25/12	7.75	24.01	1,716	10.10	0.66
	5/25/12	7.75	24.01	1,716	10.10	0.66
	5/27/14	7.45	25.77	1,543	0.10	0.32
MW-40A	5/19/11	8.07	23.18	687	88.80	3.66
	11/9/11	8.55	19.85	659	37.30	5.53
	5/17/12	7.28	23.28	907	59.00	6.93
	10/29/12	8.10	23.74	782	45.00	3.94
	5/17/13	7.86	24.60	1,144	73.80	3.01
	5/7/14	7.63	21.35	1,037	106.8	6.65
	11/10/14	8.53	22.51	1,008	-77.8	4.37
MW-41A	5/24/11	5.40	24.98	2,225	174.70	1.71
	5/8/12	5.69	18.89	20,250	178.10	0.89
	5/9/13	4.91	24.03	3,032	-48.50	0.95
	5/16/14	7.01	21.96	2,737	95.10	4.05
MW-42A	5/25/11	9.29	24.22	2,123	95.30	5.40
	5/25/12	9.26	76.72	2,894	-2.00	5.88
	5/22/14	9.77	21.69	2,296	106.3	5.50
MW-46A	5/25/11	7.88	24.91	2,113	154.10	5.65
	5/23/12	7.61	24.26	2,525	10.10	5.59
	5/22/14	7.80	21.53	1,845	43.70	5.07
MW-48SA DUP	5/29/11	7.10	23.29	2,673	100.80	4.79
	11/16/11	7.03	20.66	3,649	117.10	NA
	5/16/12	6.97	20.91	3,257	92.20	6.01
	11/8/12	7.70	22.25	2,651	-21.60	5.48
	11/8/12	7.70	22.25	2,651	-21.60	5.48
	5/8/13	4.65	23.49	5,178	-60.20	4.96
	5/15/14	7	20.67	3,814	130.4	5.62
	11/14/14	6.76	15.41	3,385	-147.8	6.78

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-49SA	5/23/11	0.93	35.48	5,362	79.80	1.14
	5/17/12	7.10	20.97	6,893	-128.20	-1.14
	5/8/13	4.16	23.15	8,950	-74.50	1.32
	5/15/14	6.91	20.46	6,338	120.7	1.77
MW-50SA	5/23/11	6.77	25.97	5,415	109.40	1.26
	5/17/12	7.05	21.33	5,115	-117.90	1.24
	5/8/13	3.70	23.40	9,043	-79.90	0.42
	5/16/14	6.71	21.41	5,912	57	0.34
MW-51SA	5/23/11	6.46	25.88	5,220	127.70	1.02
DUP	5/16/12	6.99	20.94	6,176	145.70	0.72
	5/16/12	6.99	20.94	6,176	145.70	0.72
	5/8/13	4.60	23.81	8,190	-80.40	0.45
	5/15/14	6.75	20.2	5,325	113.7	0.54
MW-52SA	5/23/11	6.85	25.86	4,792	74.70	1.84
	5/16/12	5.87	21.45	5,595	131.50	1.29
	5/8/13	5.08	23.08	7,850	-62.30	1.76
	5/15/14	6.81	20.38	6,031	131.40	2.33
MW-53SA	5/24/11	7.29	22.95	1,490	91.80	2.61
	11/16/11	6.56	19.68	1,775	155.50	NA
	5/16/12	7.34	22.60	1,949	67.40	5.78
	11/9/12	7.54	24.03	1,824	-23.90	5.26
	5/8/13	7.18	22.80	2,200	-160.60	4.34
	5/15/14	7.08	21.12	1,837	54.20	4.94
	11/14/14	7.76	12.48	2,563	-144.1	6.65
MW-54SA	5/24/11	7.12	27.92	3,477	139.80	4.16
	11/16/11	3.78	19.38	3,516	290.60	NA
	5/16/12	6.86	21.30	3,743	87.50	5.20
	11/7/12	7.12	23.21	3,197	-38.80	4.56
	11/7/12	7.12	23.21	3,197	38.80	4.56
	5/8/13	5.70	21.52	4,734	-49.20	4.02
	5/15/14	6.97	20.03	4,029	112.30	4.91
	11/14/14	6.61	14.21	3,783	-139.10	5.08
MW-55SA	5/24/11	7.19	26.50	2,616	120.50	4.02
	11/16/11	3.93	20.39	3,010	279.20	NA
	5/16/12	6.92	20.75	3,060	89.40	5.59
	5/16/12	6.92	20.75	3,060	89.40	5.59
	11/7/12	7.19	22.15	2,543	-37.40	6.55
	11/7/12	7.19	22.15	2,543	-37.40	6.55
	5/7/13	5.39	23.20	3,463	-60.20	5.65
	5/14/14	7.15	19.32	2,399	104.10	4.23
	11/12/14	6.96	14.78	1,381	-29.70	6.51
MW-56SA	5/17/11	7.11	28.10	7,134	84.30	2.37
	11/17/11	6.40	16.46	5,599	78.40	5.32
	5/16/12	7.07	22.84	6,224	-2.10	2.27
	5/16/12	7.07	22.84	6,224	-2.10	2.27
	11/8/12	7.34	20.91	5,089	-10.00	4.11
	5/8/13	6.88	24.06	5,603	-164.80	2.57
	5/15/14	6.96	20.06	5,787	86.30	5.02
	11/13/14	7.04	15.70	3,953	-108.20	4.93

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-57SA	5/17/11	7.15	26.19	2,528	105.40	4.78
	11/10/11	5.57	17.21	2,277	322.30	NA
	5/17/12	7.27	22.92	1,840	15.80	4.37
	10/31/12	7.03	21.92	1,675	74.40	5.63
	5/8/13	7.00	22.55	2,097	-132.00	5.49
	5/14/14	7.40	19.42	707	77.9	6.43
	11/11/14	7.29	10.61	474	-45	8.08
MW-62A	5/19/11	7.74	24.69	671	85.50	5.00
	11/10/11	8.01	19.27	646	38.70	6.05
	5/23/12	7.72	20.80	828	35.00	4.13
	10/31/12	7.57	19.51	717	74.10	5.65
	5/14/13	7.61	20.28	830	-246.10	0.57
	5/13/14	7.58	19.66	766	143.70	6.22
	11/10/14	7.25	24.02	975	-44.70	1.71
MW-63A	5/19/11	7.52	23.25	643	82.70	1.64
	11/10/11	7.90	18.97	606	37.60	3.85
	5/18/12	7.63	22.72	829	17.30	4.64
	10/31/12	7.60	18.35	653	72.10	5.65
	5/13/13	7.48	22.25	861	-257.50	0.38
	5/13/14	7.64	19.76	692	127.90	6.26
	11/10/14	7.31	23.53	827	-77.80	1.18
MW-64SA	5/10/11	6.83	25.57	3,338	110.30	4.61
	11/10/11	8.01	18.01	2,707	53.50	7.18
	5/11/12	7.13	18.63	3,586	21.90	3.78
	10/30/12	7.34	23.18	3,422	-23.70	5.08
	5/6/13	8.29	21.05	4,820	-48.80	5.15
	4/1/14				P&A	
MW-65SA DUP DUP	5/19/11	7.01	23.70	3,770	106.90	5.55
	11/14/11	5.23	20.90	4,406	223.40	NA
	5/9/12	7.10	21.69	3,714	74.10	5.23
	5/9/12	7.10	21.69	3,714	74.10	5.23
	11/1/12	6.95	23.46	4,033	68.70	4.93
	11/1/12	6.95	23.46	4,033	68.70	4.93
	5/7/13	5.35	24.07	5,140	-61.10	5.27
	5/14/14	6.38	20.12	3,253	60.10	0.24
	11/12/14	6.70	16.50	1,944	-62.10	0.3
MW-66SA	5/18/11	6.86	24.88	4,576	86.30	1.27
	11/14/11	5.88	20.58	4,849	177.80	NA
	5/15/12	6.82	21.35	5,692	62.40	0.58
	11/2/12	6.78	19.24	4,129	59.90	0.32
	5/7/13	6.93	25.36	4,846	251.80	0.30
	5/15/14	6.72	21.81	4,052	51.70	0.26
	11/12/14	6.54	14.36	1,935	-56.60	0.47
MW-67SA	5/19/11	7.18	27.65	1,485	44.40	3.63
	11/15/11	6.12	20.32	1,669	170.90	NA
	5/16/12	6.41	20.75	1,695	123.10	5.75
	11/2/12	7.06	25.06	1,583	57.60	4.38
	5/8/13	7.03	22.19	1,677	-160.60	4.36
	5/15/14	6.91	20.39	1,390	71.90	4.29
	11/13/14	7.24	13.19	1,023	-113	1.50
MW-70A	5/18/11	7.83	24.35	798	64.30	5.22
	5/23/12	7.78	22.73	870	-13.10	3.77
	5/14/13	7.34	25.67	803	15.20	4.03
	5/8/14	7.63	20.56	781	121.70	5.28

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-71SA	5/18/11	7.37	27.05	1,084	90.20	1.21
	11/14/11	5.92	19.85	1,085	206.20	NA
	5/8/12	7.28	19.86	979	65.10	1.50
	11/1/12	7.17	23.12	1,058	17.90	0.45
	5/7/13	5.16	24.50	1,550	-78.40	0.52
	5/16/14	7.08	21.88	1,073	-29.80	0.28
	11/12/14	7.31	12.97	809	-50.40	5.19
MW-72SA	5/18/11	7.32	25.82	1,945	123.10	6.10
	11/14/11	5.99	20.77	1,607	193.40	NA
	5/15/12	7.26	20.58	2,059	74.10	8.00
	11/2/12	7.14	20.23	2,036	74.40	6.34
	5/8/13	6.97	19.82	2,181	-122.90	5.15
	5/15/14	7.36	21.79	1,598	51.60	6.38
	11/12/14	7.02	16.16	1,197	-45.50	5.13
MW-73SA	5/19/11	7.21	21.31	1,711	112.90	2.08
	11/14/11	5.94	20.88	1,861	173.20	NA
	5/15/12	6.97	20.84	2,012	64.10	1.57
	11/2/12	7.10	22.67	1,591	55.00	1.15
	5/8/13	7.05	20.73	1,759	-184.60	1.44
	5/16/14	7.09	22.31	1,667	24.60	1.46
	11/12/14	6.92	16.23	1,224	-58.40	1.69
MW-74SA	5/18/11	7.05	23.87	3,102	142.00	5.08
	11/10/11	6.29	17.29	4,080	270.00	NA
	5/16/12	7.11	23.44	3,588	1.80	3.23
	10/31/12	6.92	22.30	2,997	68.20	5.15
	5/7/13	5.65	22.98	3,180	-60.50	5.36
	5/14/14	7.02	19.68	2,752	123.1	4.69
	11/11/14	6.39	17.80	1,338	-22.90	6.14
MW-75SA	5/10/11	7.41	26.14	29,990	87.10	5.18
	11/11/11	7.08	16.01	4,024	78.20	NA
	5/9/12	7.16	27.16	2,941	70.40	4.51
	10/30/12	7.28	23.84	2,963	-19.60	5.74
	5/6/13	7.27	25.41	3,785	-163.80	4.74
	5/14/14	7.16	19.66	2,799	123.70	5.05
	11/11/14	6.84	18.38	1,724	-27.50	6.50
MW-76SA	5/10/11	7.44	26.76	2,838	82.60	4.61
	11/11/11	6.96	16.99	3,793	65.70	NA
	5/9/12	7.25	21.24	2,661	79.70	4.68
	10/30/12	7.03	21.42	2,689	68.00	4.80
	5/7/13	10.22	18.47	2,996	-46.90	5.50
	5/14/14	7.12	19.84	2,742	121.50	4.43
	11/11/14	6.81	18.23	1,670	-37.20	4.04
MW-77SA	5/10/11	7.11	27.08	3,667	142.80	4.04
	11/11/11	6.69	17.46	4,361	60.20	NA
	5/9/12	7.24	19.49	1,809	169.30	3.07
	11/1/12	7.07	19.87	2,414	60.00	0.79
	5/6/13	7.31	22.85	2,159	-173.60	3.79
	4/1/14				P&A	
MW-78SA	5/19/11	7.37	25.96	1,294	95.20	2.38
	11/15/11	6.65	19.47	1,252	199.50	NA
	5/16/12	7.26	23.28	1,431	-34.90	1.48
	11/2/12	7.08	24.29	1,291	39.30	1.69
	5/8/13	7.08	23.08	1,471	-194.80	1.81
	5/15/14	7.08	20.80	1,175	28.20	2.86
	11/13/14	7.20	15.18	974	-109.1	4.10

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-79SA	5/23/11	6.94	29.42	2,142	-316.60	0.07
	11/15/11	5.46	21.07	2,068	-195.80	NA
	5/9/12	7.01	20.43	2,193	-297.70	0.61
	11/7/12	6.89	23.36	1,965	-193.90	0.52
	5/9/13	6.68	21.79	2,305	-291.40	0.22
	5/15/14	7.09	21.22	1,941	-98.10	0.98
	11/13/14	6.93	14.77	1,447	-110.30	2.80
MW-80SA	5/19/11	7.20	24.87	1,694	48.70	4.38
	11/15/11	6.50	20.43	1,880	173.70	NA
	5/9/12	7.14	21.73	2,118	50.90	6.30
	11/7/12	7.29	22.61	1,784	-19.00	6.30
	5/9/13	7.08	25.90	2,418	-158.90	4.95
	3/31/14				P&A	
MW-81SA	5/19/11	6.97	24.89	2,529	-8.20	0.90
	11/15/11	5.63	21.45	2,515	91.30	NA
	5/9/12	7.01	20.43	2,665	-6.70	1.95
	11/7/12	7.10	21.26	2,330	-24.30	1.29
	5/8/13	7.07	23.61	2,730	-223.30	0.41
	4/1/14				P&A	
MW-82SA	5/10/11	6.74	25.61	4,170	45.90	0.35
	11/10/11	5.41	18.07	5,228	-103.30	NA
	5/11/12	6.85	19.70	3,995	-184.40	0.26
	10/30/12	6.80	21.84	4,015	-39.00	0.17
	5/6/13	6.84	17.64	5,469	-265.90	0.33
	4/1/14				P&A	
MW-83SA	5/9/11	6.69	28.14	3,701	99.70	1.32
	11/10/11	5.61	17.80	6,204	156.30	NA
	5/11/12	7.02	20.00	5,220	71.00	0.72
	10/31/12	6.92	22.16	5,014	52.10	0.35
	5/6/13	6.97	19.94	6,120	-261.00	0.16
	5/14/14	6.84	20.20	4,733	56.10	0.21
	11/11/14	6.90	16.37	1,602	-87.50	0.33
MW-84SA	5/10/11	7.07	26.91	5,021	132.10	3.90
	11/10/11	7.83	18.11	3,869	56.10	7.11
	5/11/12	7.06	17.75	4,686	56.80	4.09
	10/30/12	6.95	22.56	4,715	52.70	4.12
	5/6/13	6.68	22.43	6,031	-60.50	4.58
	5/14/14	6.50	19.94	4,177	91.80	5.13
	11/11/14	6.65	17.90	2,040	-40.10	3.25
MW-85SA	5/9/11	5.15	28.47	4,870	-87.40	5.15
	10/10/11	3.03	17.33	4,463	-111.30	NA
	5/11/12	6.82	18.64	3,521	-141.40	0.89
	10/31/12	6.75	21.89	3,631	-35.60	0.20
	5/6/13	6.56	21.46	4,742	-69.70	0.39
	5/14/14	6.68	20.26	3,908	56.70	0.22
	11/11/14	6.45	17.31	1,709	-56.30	0.48
MW-86SA	5/19/11	7.17	23.46	2,508	96.30	2.79
	11/14/11	5.19	19.39	1,931	229.90	NA
	5/8/12	7.27	19.39	7,219	93.00	4.02
	11/1/12	7.07	21.95	2,855	35.50	1.00
	5/7/13	8.49	22.14	3,878	-83.00	1.10
	5/14/14	7.24	20.11	2,212	152.3	5.62
	11/12/14	6.95	14.99	1,308	-30.50	7.20

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
MW-87A	5/26/11	7.16	20.71	5,123	-361.60	0.90
	5/16/13	7.12	25.41	6,134	-212.30	0.20
	5/8/14	7.30	23.18	531	-104.1	0.15
MW-89SA	5/24/11	7.02	23.73	4,274	119.30	3.02
DUP	5/22/12	7.13	26.36	1,805	-174.80	5.00
	5/22/12	7.13	26.36	1,805	-174.80	5.00
	5/15/13	7.00	24.95	1,544	-169.10	3.22
	5/27/14	7.06	23.04	1,560	52.70	4.29
MW-90SA	5/25/11	7.20	24.04	2,743	128.80	4.65
	5/23/12	6.95	28.59	2,743	-151.40	5.37
	5/14/13	6.97	20.82	1,718	-188.00	2.55
	5/22/14	6.71	21.04	2,276	85.20	5.50
MW-91SA	5/24/11	7.21	27.04	1,537	107.50	2.75
	5/8/12	7.09	20.09	1,566	70.00	2.32
	5/9/13	6.90	23.07	2,258	-195.60	1.20
	5/21/14	6.83	21.36	2,631	21.80	2.40
MW-92SA	5/23/11	6.86	26.94	2,073	78.90	3.22
	5/11/12	7.01	19.87	1,675	107.80	3.53
	5/9/13	6.70	25.10	4,571	-174.30	1.48
	3/31/14				P&A	
MW-93SA	5/23/11	6.81	29.64	2,046	54.70	2.84
	5/11/12	6.81	19.13	1,751	113.50	1.79
	5/10/13	6.65	18.35	2,881	-207.80	0.89
	5/21/14	6.55	20.52	2,458	-3.60	2
IW-3	5/20/11	6.73	21.01	4,198	-179.80	1.03
	5/11/12	7.15	20.20	5,495	197.60	0.67
	5/9/13	6.63	23.32	3,360	-225.40	0.17
	5/20/14	6.73	22.48	3,849	-109.4	0.21
IW-4	5/20/11	6.52	22.31	4,970	-144.10	1.01
	5/11/12	7.02	19.69	6,085	162.20	0.53
	5/9/13	6.34	23.29	3,490	-212.10	0.29
	5/20/14	6.41	21.82	3,785	-62.20	0.22
IW-5	5/20/11	6.67	22.53	4,655	-175.20	0.76
	5/11/12	7.05	20.20	5,833	199.80	0.24
	5/7/13	6.79	22.56	3,041	-256.90	0.09
	5/16/14	6.60	23.19	2,574	-165.3	0.10
IW-6	5/20/11	6.72	24.43	4,621	-76.60	0.72
	5/11/12	7.08	19.80	5,110	174.50	0.15
	5/7/13	6.88	23.62	3,049	-218.00	0.13
	5/16/14	6.45	23.92	2,345	-113.5	0.11
IW-7	5/19/11	6.88	27.89	5,937	-165.50	0.81
	5/15/12	6.82	19.75	5,915	-200.80	0.67
	5/7/13	6.96	23.37	3,077	-245.70	0.13
IW-8	5/20/11	6.95	17.90	3,412	-68.60	2.25
	5/15/12	7.05	20.45	4,340	-165.50	0.42
	5/7/13	7.05	23.51	2,712	-232.40	0.16
	5/20/14	6.87	20.39	2,661	-110.70	0.33
IW-9	5/20/11	6.20	21.66	8,569	-84.70	1.33
	5/7/13				Insufficient	Water
	5/20/14	7.08	20.78	3,890	-14.90	0.57

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
IW-10	5/20/11	6.57	22.84	4,974	-28.00	0.95
	5/15/12	6.56	23.77	4,440	-60.10	0.99
	5/7/13	6.68	22.25	3,665	-219.50	0.27
	5/19/14	6.52	23.08	4,698	-73.70	0.35
IW-11	5/20/11	6.78	23.77	4,662	-124.50	0.77
	5/15/12	6.72	23.09	3,970	168.70	0.70
	5/7/13	6.77	20.13	2,416	-265.70	0.20
	5/19/14	6.57	24.64	4,550	-99	0.28
IW-12	5/20/11 5/7/13				NS Insufficient	Water
IW-13	5/20/11	6.75	21.72	3,923	-128.50	0.30
	5/15/12	6.97	22.01	4,734	-167.80	0.34
	5/13/13	6.89	22.60	4,649	-301.00	0.08
	5/19/14	6.91	25.56	5,074	-152.30	0.12
IW-14 Dup	5/20/11	6.81	23.60	4,846	-177.50	0.08
	5/15/12	6.97	22.02	5,588	-184.50	0.35
	5/15/12	6.97	22.02	5,588	-184.50	0.35
	5/6/13	7.05	22.62	5,220	-317.90	0.09
	5/19/14	6.91	20.65	4,925	-211.20	0.68
IW-15	5/20/11	6.79	21.73	4,305	-179.30	1.14
	5/11/12	7.07	19.22	5,686	-198.30	1.40
	5/9/13	6.64	23.90	3,947	-190.00	0.15
	5/20/14	6.81	24.15	4,531	-147.20	0.15
IW-16	5/20/11	7.00	23.32	2,951	-121.60	1.79
	5/9/12	6.82	19.88	2,857	218.30	2.03
	5/9/13	6.70	23.50	2,678	-308.20	0.10
	5/20/14	6.74	22.02	2,396	-111.30	0.34
IW-18	5/23/11	7.01	27.74	1,358	24.50	4.15
	5/11/12	7.16	20.42	1,069	106.90	1.30
	5/10/13	6.72	19.40	3,836	-216.50	0.49
	5/20/14	6.60	23.55	2,585	-14	0.53
IW-19	5/23/11	7.37	28.13	891	21.40	4.73
	5/11/12	7.27	20.48	971	113.60	5.69
	5/10/13	6.80	19.65	2,276	-262.70	0.44
	5/20/14	6.74	21.66	2,525	-7.6	0.27
IW-20	5/23/11	7.01	26.26	1,202	64.80	5.33
	5/17/12	7.11	22.08	1,260	67.70	4.38
	5/10/13	6.60	19.03	3,596	-255.90	0.34
	3/31/14				P&A	
IW-21	5/23/11	6.83	27.76	2,370	91.40	3.00
	5/17/12	7.06	21.88	2,160	-53.20	4.76
	5/13/13	6.83	21.57	2,420	-161.90	2.46
	5/21/14	6.66	21.01	3,056	35.8	2.36
IW-22	5/24/11	7.05	25.78	1,451	88.70	2.56
	5/17/12	7.15	22.10	1,960	67.20	2.76
	5/13/13	6.96	20.44	2,713	-173.10	2.24
	5/21/14	6.80	21.36	2,803	49.7	3.23
IW-23	5/24/11	7.01	26.16	3,063	103.70	2.63
	5/18/12	7.09	21.02	3,309	70.70	0.63
	5/13/13	7.00	20.05	3,220	-167.10	2.90
	5/21/14	6.96	22.08	3,206	40.2	6.76

TABLE 2
SUMMARY OF GROUNDWATER GEOCHEMICAL PARAMETERS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	pH	Temperature °C	Conductivity (uS/cm)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)
IW-24	5/24/11	6.89	25.79	3,907	58.90	3.83
	5/24/12	6.80	27.86	4,660	-111.80	3.66
	5/14/13	6.74	23.65	2,957	-178.50	1.77
	5/22/14	6.55	20.34	3,693	10.80	3.93
IW-25	5/24/11				NS	
	5/14/13	6.22	23.76	3,485	-278.50	0.30
	5/22/14	6.22	20.42	3,294	-158.7	0.73
IW-26	5/24/11				NS	
	5/23/12	6.87	28.76	3,167	-111.00	5.71
	5/14/13	6.87	23.30	2,654	-169.30	5.20
	5/22/14	6.59	20.22	3,186	92.40	6.38
IW-27	5/24/11	7.01	24.60	2,804	142.60	5.04
	5/23/12	6.90	27.26	3,426	-220.20	4.89
	5/14/13	7.08	22.95	1,590	-148.30	4.78
	5/22/14	6.92	20.89	2,045	66.3	5.52
IW-28 Dup	5/23/11	6.95	29.80	3,233	39.50	4.62
	5/22/12	7.07	27.40	2,479	-160.80	4.38
	5/22/12	7.07	27.40	2,479	-160.80	4.38
	5/15/13	6.90	20.62	1,952	-124.80	3.80
	5/22/14	6.95	20.75	1,849	48.10	6.05
IW-29	5/7/14	7.53	22.70	8,409	-257.1	0.15
RW-1	---			Plugged	and	Abandoned
RW-4A	5/25/11	5.68	25.07	1,092	-158.90	1.16
	5/8/14	6.90	25.68	5,981	-157.4	0.10
RW060	7/14/11	6.27	22.43	5,272	-129.90	0.10
Water Wells						
EP-WW1	5/18/11		No	Parameters	Taken from Non-	Water Well Operable
GOPWW2	5/25/11	7.28	24.89	4,724	-193.50	0.47
	11/17/11	7.01	16.71	4,494	-110.90	NA
	5/8/12	7.71	19.11	3,899	-110.70	1.01
	11/1/12	7.84	21.08	4,077	341.60	0.04
LORDWW	5/26/11	8.08	20.79	6,029	-299.60	0.45
	11/10/11	8.44	19.09	5,179	-278.20	0.24
	5/18/12	8.83	25.14	6,446	-217.50	0.18
	10/26/12	8.65	15.77	4,037	-187.20	0.26
	5/9/14	8.25	19.72	4,258	-76.8	0.29
	11/10/14	9.16	23	3,954	-165.7	0.27
ROLANDWW	5/25/11	8.36	23.83	1,706	99.10	0.61
WOODELLWW	5/25/11		No	Parameters	Taken from	Water Well
	5/16/12	7.00	70.11	2,965	-1.40	3.87

Notes:

NA - Not Analyzed.
 LNAPL - Light non-aqueous phase liquid.
 NS - Not Sampled.
 NG - Not Gauged
 P&A - Plugged and Abandoned

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
<i>Shallow Monitor Wells</i>						
MW001	5/11/11	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	5/24/2012	<0.00756	<0.00500	<0.00355	<0.0188	1.31
	5/21/2013	<0.00756	<0.00500	<0.00355	<0.0188	2.60
	5/6/2014	<0.00550	0.112	0.113	<0.0283	0.260
MW002	5/16/2011	0.0138 J	0.0589	0.0627	<0.100	<0.0500
	5/24/2012	<0.00756	0.0720	0.0567	<0.0188	<0.00291
	5/21/2013	0.0120 J	0.0475	0.0452	<0.0643 J	0.00403 J
	5/22/2014	0.00951 J	0.0364	0.0382	<0.0283	<0.00316
MW003	5/7/2014	0.0109 J	0.0153	0.0181	<0.0283	<0.00316
MW004 DUP	5/16/2011	<0.0100	0.268	0.244	<0.100	<0.0500
	5/22/2012	<0.00756	0.286	0.277	<0.0188	<0.00291
	5/22/2012	<0.00756	0.285	0.274	<0.0188	0.0280
	5/15/2013	<0.00756	0.0998	0.123	<0.0188	0.0134 J
MW005	5/17/2011	<0.0100	0.0143	<0.0500	0.211	0.123
	5/24/2012	0.0229	0.0118	<0.00355	<0.0188	0.0444
	5/22/2013	<0.00756	<0.0500	<0.00355	0.692	0.0547
MW006	5/17/2011	<0.0100	0.0297	<0.0500	0.310 J	<0.0500
MW007	5/22/12	<0.00756	0.0334	0.032	<0.0188	<0.00291
	5/16/2013	0.0255	0.0187	0.0210	<0.0188	<0.00291
	5/9/2014	0.0122 J	0.0205	0.0202	<0.0283	<0.00316
MW008 DUP	5/11/2011	<0.0100	<0.0100 J	<0.0500	1.22	1.11
	5/11/2011	0.0105	<0.0100 J	<0.0500	1.03	1.11
	5/25/2012	<0.00756	<0.00500	<0.00355	0.263	1.22
	5/16/2013	<0.00756	<0.00500	<0.00355	0.0712 J	0.871
MW008M Dup.	5/7/2014	<0.00550	<0.0250	<0.00225 J	<0.0283	2.15
	5/11/2011	0.0213	<0.0100 J	<0.0500	1.16	0.565
	5/25/2012	<0.00756	0.0389	0.0299	17.4	2.20
	5/20/2013	<0.00756	<0.0500	0.00812 J	14.6	3.01
MW009	5/6/2014	<0.00550	<0.0250	<0.000811	69.5	3.33
	5/6/2014	<0.00550	<0.0250	<0.000811	82.5	3.30
MW010	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	11/7/2011	<0.0100	0.0415	0.0409	<0.200	<0.0200
	5/21/2012	<0.00756	0.0592	0.0594	<0.0188	<0.00291
	10/26/2012	<0.00756*	0.0480	0.0524*	<0.0188*	<0.00291*
Dup.	5/17/2013	0.0107 J	0.0220	0.0235	<0.0188	<0.00291
	11/4/2013	<0.00756	0.0193	0.0258	<0.0188	0.0554
	5/7/2014	0.00572 J	0.0336	0.0340	0.0656 J	<0.00850 J
	11/5/2014	0.0166 J	0.0114	0.0168	0.246	<0.00316
MW011	11/5/2014	0.00674 J	0.00870 J	0.0154	<0.0283	<0.00316
MW011	5/16/2011	<0.0100	<0.0100	<0.0500	0.957	0.778
	5/22/2012	<0.00756	0.0398	<0.00355	5.23	2.87
	5/20/2013	0.0108 J	<0.0500	0.0143	0.598	1.90
	5/8/2014	0.00881 J	<0.0250	0.00830 J	2.59	4.30

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW011M DUP	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	5/11/11	<0.0100	<0.0100 J	<0.0500	0.105	<0.0500
	5/22/2012	<0.00756 J	0.0188 J	0.0390	0.352	<0.00291
	5/20/2013	<0.00756	<0.0500	0.0189	0.173 J	0.00474 J
	5/6/2014	<0.00550	<0.0250	0.0216	0.267	<0.00316
MW012	5/13/2011	<0.0100	<0.0100	<0.0500	1.24	9.27
	5/22/2012	<0.00756	0.0466	<0.00355	17.4	2.33
	5/21/2013	<0.0517	<0.0500	<0.0690	<0.0536 J	5.81
	5/28/2014	<0.00550	<0.00500	<0.000811	<0.0283	1.73
MW012M	5/13/2011	0.069	<0.0100	<0.0500	6.51	0.058
	5/22/2012	0.0784	0.284	0.0456	8.52	0.0954
	5/21/2013	0.0870	<0.0500	0.0444	10.1	0.142
	5/28/2014	0.0880	<0.0500	0.0429	9.14	0.119
MW013 DUP DUP	5/12/2011	<0.0100	1	0.808	<0.100	<0.0500
	11/8/2011	<0.0100	0.39	0.404	<0.200	<0.0200
	5/17/2012	<0.00756 J	0.188	0.229	<0.0188	<0.00291
	5/17/2012	<0.00756 J	0.219	0.232	<0.0188	<0.00291
	11/1/2012	<0.00756*	0.191	0.217*	<0.0188*	<0.002910*
	11/1/2012	<0.00756*	0.227	0.181*	<0.0188*	<0.002910*
	5/17/2013	0.00930 J	0.274	0.275	<0.0188	<0.00291
	11/4/2013	<0.00756	1.78	1.76	<0.0188	<0.00291
	5/7/2014	<0.00550	0.918	0.991	<0.0283	<0.00316
	11/7/2014	<0.00550	0.192	0.224	<0.0283	0.00926 J
MW014	5/11/2011	0.021	<0.0100 J	<0.0500	<0.100	0.308
	11/7/2011	<0.0100	0.024	0.0352	<0.200	<0.0200
	5/18/2012	<0.00756	<0.00500	<0.00355	<0.0188	0.287
	10/29/2012	<0.00756*	0.0275	0.0395*	<0.0188*	0.186*
	5/16/2013	0.0247	0.0172	0.0245	<0.0188	0.128
	11/5/2013	0.0209	0.0480	0.0705	<0.0188	0.172
	5/7/2014	0.0231	<0.0250	0.0659	0.0405 J	0.151
	11/5/2014	0.0183 J	<0.00500	0.00926 J	<0.0283	0.120
MW015	5/11/2011	0.015	<0.0100 J	<0.0500	<0.100	<0.0500
	11/7/2011	<0.0100	<0.0100	0.0208	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/16/2013	0.0173 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/5/2013	0.0120 J	<0.00500	0.00624 J	<0.0188	<0.00291
	5/6/2014	<0.00550	<0.00500	<0.000811	<0.0283	<0.00316
	11/4/2014	0.00581 J	<0.00500	0.00458 J	<0.0283 J	<0.00316
MW018	5/11/2011	0.0112	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	0.0188	<0.200	<0.0200
	5/21/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/13/2013	0.0127 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/5/2013	<0.00756	<0.00500	0.00495 J	<0.0188	<0.00291
	5/9/2014	0.0150 J	<0.00500	<0.000811	<0.0283	<0.00316
	11/4/2014	<0.00550	<0.00500	<0.000811	<0.0283 J	<0.00316
MW020	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/13/2013	0.0192 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/6/2014	<0.00550	<0.00500	<0.000811	<0.0283	<0.00316
	11/4/2014	<0.00550	<0.00500	0.00291 J	<0.0283 J	<0.00316

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW021	5/12/2011	0.0106	<0.0100 J	<0.0500	<0.100	0.754
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	0.621
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	1.13
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	1.52*
	3/31/2014				P&A	
MW023	5/16/2011	<0.0100	1.02	0.978	<0.100	<0.0500
	11/8/2011	<0.0100	0.858	0.821	<0.200	<0.0200
	5/24/2012	<0.00756	1.96	1.86	<0.0188	<0.00291
	11/6/2012	<0.00756*	1.33	1.41*	<0.0188*	<0.002910*
	5/21/2013	<0.00756	0.958	1.11	<0.0517 J	<0.00291
	10/31/2013	0.0198 J	1.42 J	1.37	<0.0188	0.0266
	5/8/2014	0.0165 J	1.55	1.60	<0.0283	<0.00316
	11/7/2014	0.0223	0.968	1.14	<0.324	0.0291
MW024	5/12/2011	0.0129	0.038	<0.0500	<0.100	<0.0500
	11/9/2011	<0.0100	0.0451	0.0443	<0.200	<0.0200
	5/22/2012	<0.00756	0.0480	0.0479	<0.0188	0.108
	11/1/2012	<0.00756*	0.0508	0.0509*	<0.0188*	0.0343*
	5/14/2013	<0.00756	0.0517	0.0633	<0.0188	0.00329 J
	10/30/2013	0.0133 J	0.0658	0.0699	<0.0188	0.0255
	5/8/2014	0.00859 J	0.0842	0.0843	<0.0283	0.00454 J
	11/6/2014	0.00744 J	0.105	0.123	<0.0283 J	0.0132 J
MW025	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	11/7/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/22/2012	<0.00756	<0.00500	0.0117	<0.0188	0.0270
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/16/2013	0.0105 J	<0.00500	0.00547 J	<0.0188	<0.00291
	4/1/2014				P&A	
MW026	5/12/2011	0.018	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	0.0113	<0.200	<0.0200
	11/8/2011	<0.0100	<0.0100	0.0193	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/20/2013	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/5/2013	0.00883 J	<0.00500	0.00598 J	<0.0188	<0.00291
	11/5/2013	<0.00756	<0.00500	0.00502 J	<0.0188	<0.00291
	5/9/2014	<0.00550	<0.00500	0.00189 J	<0.0283	<0.00316
	11/5/2014	0.0149 J	0.00770 J	0.0120	<0.0283	<0.00316
MW027	5/12/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	11/7/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	0.0234*
	5/20/2013	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/5/2013	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	5/9/2014	0.00761 J	<0.00500	<0.000811	<0.0283	0.00682 J
	11/5/2014	<0.00550	0.00620 J	0.0100 J	<0.0283	<0.00316
MW029	5/11/2011	0.0166	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/24/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/14/2013	0.0189 J	<0.00500	0.0148	<0.0188	<0.00291

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW030	5/12/2011	0.0161	<0.0100 J	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/24/2012	0.0152	<0.00500	<0.00355	<0.0188	<0.00291
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/14/2013	0.0209	<0.00500	0.00363 J	<0.0188	<0.00291
	10/31/2013	0.0146 J	<0.00500	0.00414 J	<0.0188	0.0793
	5/12/2014	0.0278	<0.00500	<0.000811	<0.0283	0.00418 J
	11/6/2014	0.0105 J	<0.00500	0.00148 J	<0.0283 J	0.00360 J
MW030P	5/9/2014	0.0416	<0.0250	<0.000811	4.76	2.39
MW031	5/12/2011	0.0197	<0.0100 J	<0.0500	<0.100	0.405
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	0.485
	5/24/2012	0.0227	<0.00500	<0.00355	<0.0188	0.499
	10/31/2012	<0.00756*	<0.00500	<0.00355*	0.692*	0.588*
	5/14/2013	0.0122 J	<0.00500	<0.00355	<0.0188	0.438
	10/31/2013	0.0124 J	<0.00500	<0.00355	<0.0188	0.222
	5/12/2014	0.0145 J	<0.00500	<0.000811	<0.0283	0.166
	11/6/2014	<0.00550	<0.00500	0.00296 J	<0.0283 J	0.0254
MW032	5/12/2011	<0.0100	0.012	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/24/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/20/2013	<0.00756	<0.00500	0.00705 J	<0.0188	<0.00291
	11/6/2013	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	5/12/2014	0.00904 J	0.00930 J	<0.00796 J	<0.0283	<0.00316
	11/5/2014	<0.00550	<0.00500	0.00150 J	<0.0283	0.00963 J
MW033	5/12/2011	<0.0100	0.0483	<0.0500	<0.100	1.06
	11/7/2011	<0.0100	0.0466	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	0.576
	11/6/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	0.777*
	5/20/2013	<0.00756	0.0165	<0.00355	<0.0188	0.683
	10/28/2013				P&A	
MW034	5/12/2011	<0.0100	0.08	0.0737	<0.100	<0.0500
	5/8/2012	<0.00756	0.0879	0.0920	<0.0188	<0.00291
	5/16/2014	0.0174 J	0.0881	0.111	<0.0283	<0.00316
MW035 DUP	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	5/25/2012	<0.00756	<0.00500	<0.00355	<0.0188	0.109
	5/22/2013	<0.00756	<0.00500	<0.00355	<0.0188	0.0538
	5/22/2013	<0.00756	<0.00500	<0.00355	<0.0188	0.0549
	10/28/2013				P&A	
MW036	5/16/2011	0.0129 J	<0.0100	<0.0500	0.71	0.396
	5/25/2012	0.0408	<0.00500	<0.00355	1.20	0.329
	5/22/2013	0.00792 J	<0.0500	<0.00355	<0.0188	0.454
	5/27/2014	0.0226	<0.0250	0.000905 J	1.91	0.363
MW038 DUP	5/11/2011	<0.0100	<0.0100 J	<0.0500	<0.100	0.179
	5/24/2012	<0.00756	<0.00500	<0.00355	0.700	0.233
	5/23/2013	0.00898 J	<0.00500	<0.00355	5.25	0.171
	11/6/2013	0.00895 J	0.0243	0.0205	<0.0188	0.114
	11/6/2013	<0.00756	0.0272	0.0176	<0.0188	0.131
	5/6/2014	<0.00550	<0.0250	<0.000811	<0.0283	0.223

TABLE 3
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SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW043	5/12/2011	<0.0100	<0.0100 J	<0.0500	<0.100	0.472
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	0.569
	5/13/2013	<0.00756	<0.00500	<0.00355	<0.0188	0.637
	5/13/2014	0.0146 J	<0.00500	<0.000811	<0.0283	0.955
MW044	5/12/2011	<0.0100	<0.0100 J	<0.0500	<0.100	<0.0500
	5/13/2013	0.00818 J	<0.00500	<0.00355	0.0456 J	0.0173 J
	5/20/2014	<0.00550	<0.00500	0.00323 J	<0.0283	0.235
MW045	5/16/2011	<0.0100	<0.0100	<0.0500	<0.100	0.183
	5/23/2012	<0.00756 J	<0.00500	0.0118	<0.0188	0.227
	5/22/2013	<0.00756	<0.00500	0.0115	<0.0188	0.248
	5/22/2014	0.00641 J	<0.0250	0.00701 J	0.146 J	0.289
MW046	5/16/2011	0.0253 J	<0.0100	<0.0500	0.144	0.77
	5/23/2012	0.0122 J	<0.00500	<0.00355	1.63	1.05
	5/21/2013	0.0234	<0.0500	<0.00355	<0.0690 J	0.741
	5/23/2014	0.0247	0.0100 J	0.00165 J	<0.0283	0.568
MW047	5/16/2011	<0.0100	0.149	0.136	<0.100	<0.0500
	5/23/2012	<0.00756 J	0.142	0.145	<0.0188	<0.00291
	5/20/2013	<0.00756	0.0433	0.0487	<0.0188	<0.00291
	5/27/2014	0.00563 J	0.0441	0.0518	<0.0283	<0.00316
MW058	5/13/2011	<0.0100	2.83	2.26	<0.100	<0.0500
	11/10/2011	<0.0100 J	0.0156	0.0177	<0.200	0.0332
	5/24/2012	<0.00756	0.0149	0.0175	<0.0188	<0.00291
	5/24/2012	<0.00756	0.0132	0.0164	<0.0188	<0.00291
	11/6/2012	<0.00756*	2.76	2.70*	<0.0188*	<0.002910*
	11/6/2012	<0.00756*	2.80	2.78*	0.287*	<0.002910*
	5/14/2013	0.0111 J	2.52	2.58	0.0612 J	<0.00291
	10/31/2013	0.0210	2.78 J	2.70	<0.0188	0.0151 J
	5/13/2014	0.0118 J	0.00820 J	<0.00788 J	<0.0283	<0.00316
	11/6/2014	0.0182 J	0.00690 J	0.00907 J	<0.0283 J	<0.00316
	11/6/2014	0.0171 J	0.00570 J	0.00873 J	<0.0283 J	<0.00316
MW059	5/16/2011	0.0107 J	<0.0100	<0.0500	<0.100	<0.0500
	11/8/2011	<0.0100	<0.0100	<0.0100	<0.200	0.0226
	5/24/2012	<0.00756	0.0451	0.0465	<0.0188	<0.00291
	11/2/2012	<0.00756*	0.495	0.493*	<0.0188*	<0.002910*
	5/21/2013	0.0153 J	0.104	0.107	<0.0188	<0.00291
	10/31/2013	0.0178 J	0.106 J	0.105	<0.0188	0.0522
	5/13/2014	0.0131 J	0.00810 J	<0.00609 J	<0.0283	<0.00316
MW060	11/10/2014	0.0231	0.00600 J	0.00574 J	<0.0283	<0.00316
	5/16/2011	0.0115 J	<0.0100	<0.0500	0.462	1.76
	11/7/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/24/2012	<0.00756	<0.00500	<0.00355	0.717	0.905
	10/31/2012	<0.00756*	<0.00500	<0.00355*	3.02*	1.27*
	5/15/2013	0.00865 J	<0.00500	<0.00355	0.275	2.10
	10/31/2013	0.0110 J	<0.00500	<0.00355	1.07	1.07
	5/12/2014	0.0184 J	<0.00500	<0.000811	0.802	0.935
	11/6/2014	0.0181 J	<0.00500	0.00379 J	<0.0283 J	5.20

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW061	5/13/2011	<0.0100	0.285	0.236	<0.100	0.0919
	11/8/2011	<0.0100	0.26	0.263	<0.200	0.0942
	5/25/2012	<0.00756	0.251	0.243	<0.0188	0.0729
	11/2/2012	<0.00756*	5.01	4.79*	<0.0188*	<0.002910*
	5/15/2013	0.0232	3.82	3.84	<0.0188	0.00544 J
	11/1/2013	0.00902 J	0.367	0.423	<0.0188	0.234
	5/13/2014	0.00808 J	0.111	0.110	<0.0283	0.0652
	5/13/2014	0.0114 J	0.111	0.104	<0.0283	0.0609
Dup.	11/7/2014	<0.00550	0.137	0.171	<0.0283	0.0712
MW068 DUP	5/13/2011	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	5/13/11	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	11/7/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/25/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/15/2013	0.0113 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/6/2013	0.0166 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/12/2014	0.0171 J	<0.00500	<0.000811	<0.0283	<0.00316
	11/5/2014	0.00864 J	<0.00500	<0.000811	<0.0283	0.243
MW069	5/16/2011	<0.0100	<0.0100	<0.0500	<0.100	0.4
	5/24/2012	<0.00756	<0.00500	<0.00355	<0.0188	0.564
	5/14/2013	<0.00756	<0.00500	<0.00355	<0.0188	0.539
	5/13/2014	0.0132 J	<0.00218	<0.000811	<0.0283	0.576
MW070 DUP	5/13/2011	0.0164	<0.0100	<0.0500	<0.100	<0.0500
	11/9/2011	<0.0100 J	<0.0100	<0.0100	<0.200	<0.0200
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/6/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/14/2013	0.0208	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2013	0.0183 J	<0.00500	<0.00355	<0.0188	0.0445
	10/30/2013	0.0130 J	<0.00500	<0.00355	<0.0188	0.0778
	5/8/2014	0.0183 J	<0.00500	<0.000811	<0.0283	<0.00316
	11/10/2014	0.0143 J	<0.00500	<0.000811	<0.0283	0.00449 J
MW088M	5/11/2011	0.105	0.61	0.0808	7.38	11.5
	5/22/2012	0.158	0.117	0.122	14.1	15.6
	5/21/2013	0.0825	<0.100	0.143	32.3	13.2
	5/9/2014	0.0354	<0.0250	0.126	9.15	9.81
MW094 DUP	11/17/2011	<0.0100	0.0424	0.0344	<0.200	<0.0200
	5/25/2012	<0.00756	<0.00500	0.0585	<0.0188	<0.00291
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/15/2013	0.00923 J	0.385	0.402	<0.0188	0.0143 J
	5/15/2013	<0.00756	0.395	0.399	<0.0188	0.0125 J
	11/1/2013	0.00855 J	0.127	0.138	<0.0188	0.0211
	5/9/2014	0.0141 J	<0.00500	<0.000811	<0.0283	<0.00316
	11/5/2014	0.0219	<0.00500	0.00213 J	<0.0283	<0.00316

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW095 DUP	11/17/2011	<0.0100	3.71	3.59	<0.200	0.0892
	5/25/2012	<0.00756	4.68	4.46	<0.0188	0.0881
	5/25/2012	<0.00756	4.87	4.58	<0.0188	0.0802
	10/31/2012	<0.00756*	4.98	5.18*	<0.0188*	<0.002910*
	5/15/2013	0.0130 J	4.83	4.81	<0.0188	0.0761
	11/6/2013	0.0187 J	4.31	4.28	<0.0188	0.0902
	5/9/2014	0.0266	3.76	3.83	<0.0283	0.109
	11/6/2014	0.0513	3.67	3.92	<0.0283 J	0.0905
MW096P	5/7/2014	0.0126 J	<0.00500	<0.000811	<0.0283	0.104
MW097P	5/7/2014	0.0111 J	0.0284	<0.00938 J	<0.0283	0.452
IW001	5/17/2011	0.0438	0.398	<0.0500	11.6 J	1.71
	5/25/2012	<0.0378	0.268	<0.0177	3.54	1.92
	5/21/2013	0.0582	<0.100	0.0241	3.59	1.78
	5/8/2014	0.0567	<0.0250	0.00854 J	3.28	1.89
IW002	5/17/2011	<0.0100	0.474	<0.0500	7.57	0.803
	11/9/2011	0.0166 J	<0.0100	<0.0100	3.54	0.152
	5/25/2012	<0.0378	0.462	<0.0177	5.21	0.818
	5/22/2013	<0.0378	<0.100	<0.0177	4.97	0.863
	5/28/2014	0.0105 J	<0.0250	0.00643 J	3.29	0.737
RW002	5/17/2011	0.0344	<0.0100	<0.0500	14.1 J	1.31
	5/22/2012	<0.00756	0.0448	0.0126	16.3	0.898
	5/20/2013	<0.00756	<0.0500	0.0145	5.78	0.854
	3/31/2014				P&A	
RW003	5/17/2011	<0.0100	<0.0100	<0.0500	35.4	0.797
	5/21/2012	<0.00756	<0.00500	<0.00355	19.0	0.931
	5/22/2013	0.0362	<0.00500	0.0190	4.97	1.02
	5/28/2014	0.00909 J	<0.0250	<0.000811	0.154 J	0.622

Notes:

Dissolved Metals (Arsenic, Chromium, Hexavalent Chromium, Iron, Manganese).
were analyzed by EPA Method 6010B/7196A.

New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103.A

mg/L (ppm) - milligrams per liter (parts per million).

Bold indicates that a COC was detected.

Shading indicates that a detected result exceeded the NMWQCC Standard.

<#.####-Not detected at or above MDL for 2012 and RL for 2011.

* - result measured as total, not dissolved

NG - Not Gauged

P&A - Plugged and Abandoned

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
<i>Deep Monitor Wells</i>						
MW002A	5/25/2011	0.0141 J	0.0253	<0.0500	<0.100	<0.0500
	5/24/2012	<0.00756	0.0254	0.0298	<0.0188	<0.00291
	5/21/2013	0.00953 J	0.0168	0.0205	<0.0188	<0.00291
	5/22/2014	0.0108 J	0.0161	0.0207	<0.0283	<0.00779 J
MW004A	5/24/2011	0.0153	0.145	0.126	<0.100	<0.0500
	5/22/2012	<0.00756	0.401	0.385	<0.0188	<0.00291
	5/15/2013	0.0124 J	<0.00500	0.00738 J	<0.0188	<0.00291
	5/21/2014	0.0131 J	0.431	0.403	<0.0283	<0.00316
MW007A	5/24/2011	0.0211 J	0.315	0.299	<0.100	<0.0500
	5/22/2012	<0.00756	0.290	0.288	<0.0188	<0.00291
	5/16/2013	0.0231	0.265	0.275	<0.0188	0.00660 J
	5/7/2014	0.0113 J	0.261	0.279	<0.0283	<0.0139 J
MW008A	5/26/2011	0.0937 J	<0.100	0.0938	71.1	0.908
	5/25/2012	0.105	0.633	0.0721	4.42	0.458
	5/16/2013	0.0802	0.0141	0.0863	4.62	0.156
	5/8/2014	0.0686	<0.0250	0.0851	2.53	0.0321 J
MW009A DUP	5/25/2011	0.0116 J	0.028	0.0665	<0.100	<0.0500
	5/25/2011	0.0156 J	0.0187	<0.0500	<0.100	<0.0500
	5/22/2012	<0.00756	0.630	0.630	<0.0188	0.0230
	5/15/2013	0.00949 J	0.638	0.633	<0.0188	<0.00291
	5/27/2014	0.0102 J	0.176	0.204	<0.0283	0.312
MW011A DUP	5/25/2011	<0.0100	3.27	3.22	<0.100 J	<0.0500
	5/25/2011	<0.0100	3.1	3.2	0.357 J	0.055
	5/22/2012	<0.00756 J	1.72 J	1.82	<0.0188	0.0498
	5/20/2013	<0.00756	1.94	2.27	<0.0506 J	0.0424
	5/8/2014	0.00886 J	<0.0250	0.114	<0.0283	2.93
MW012A	5/25/2011	0.0250 J	<0.0100	<0.0500	0.262	<0.0500
	5/22/2012	<0.00756	<0.00500	<0.00355	<0.0188	0.0674
	5/21/2013	0.0117 J	<0.00500	<0.00355	<0.0188	0.00514 J
	5/28/2014	0.0193 J	<0.00500	<0.000811	<0.0283	<0.00316
MW013A DUP DUP	5/19/2011	0.0105	0.0105	<0.0500	<0.100 J	<0.0500
	11/9/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/17/2013	0.0303	<0.00500	<0.00355	<0.0188	<0.00291
	11/4/2013	0.0199 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/4/2013	0.0201	<0.00500	<0.00355	<0.0188	<0.00291
	5/7/2014	0.0247	0.0220 J	<0.00218 J	<0.0283	<0.00316
	5/7/2014	0.0210	<0.00500	<0.00239 J	<0.0283	<0.00585 J
	11/7/2014	0.0289	<0.00500	0.00295 J	<0.0283	<0.00316

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW014A	5/18/2011	<0.0100	<0.0100	<0.0500	<0.100 J	<0.0500
	11/9/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/18/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/16/2013	0.0198 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/5/2013	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	5/7/2014	0.0254	<0.00500	<0.00196 J	<0.0283	<0.0121 J
	11/5/2014	<0.00550	<0.00500	<0.000811	0.101 J	<0.00316
MW015A DUP	5/18/2011	<0.0100	<0.100	<0.0500	<0.100 J	<0.0500
	11/9/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/16/2013	0.00913 J	<0.00500	0.00502 J	<0.0188	0.00770 J
	11/5/2013	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/5/2013	0.0113 J	<0.00500	0.00470 J	0.0203 J	<0.00291
	5/6/2014	<0.00550	<0.00500	0.0113	<0.0283	<0.00316
	11/10/2014	0.00704 J	<0.00500	0.0109	<0.0283	0.0143 J
MW016A	5/17/2011	<0.0100	<0.0100	<0.0500	0.437	<0.0500
	11/9/2011	<0.0100 J	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/16/2013	0.0153 J	<0.00500	<0.00355	<0.0188	0.00528 J
	11/5/2013	0.00924 J	<0.00500	0.00397 J	<0.0188	<0.00291
	5/6/2014	<0.00550	<0.00500	<0.000811	<0.0283	<0.00316
	11/13/2014	<0.00550	<0.00500	0.000983 J	<0.0283	<0.00316
MW017A	5/6/11	Plugged and Abandoned				
MW018A	5/24/2011	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	11/9/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/21/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/13/2013	<0.00756	<0.00500	<0.00355	<0.0188	0.0218
	4/1/2014				P&A	
MW019A	5/17/2011	0.0101	<0.0100	<0.0500	<0.100 J	<0.0500
	11/9/2011	<0.0100	<0.0100 J	<0.0100	<0.200	<0.0200
	5/21/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/13/2013	0.0137 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/5/2013	0.0156 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/6/2014	<0.00550	<0.00500	<0.000811	<0.0283	<0.00316
	11/4/2014	<0.00550	<0.00500	0.000878 J	<0.0283 J	<0.00316

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW020A	5/16/2011	0.0406 J	<0.0100	<0.0500	<0.100	<0.0500
	11/9/2011	<0.0100	<0.0100 J	0.0129	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/26/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/13/2013	0.0109 J	<0.00500	0.00787 J	0.0337 J	<0.00291
	11/4/2013	<0.00756	<0.00500	0.00735 J	<0.0188	<0.00291
	5/6/2014	<0.00550	<0.00500	<0.000811	<0.0283	<0.00316
	11/4/2014	<0.00550	0.00960 J	0.0173	<0.0283 J	0.0150 J
MW021A DUP	5/23/2011	0.0226	<0.0100	<0.0500	<0.100	<0.0500
	11/17/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	11/17/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/8/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	0.705*
	11/1/2013	0.0107 J	<0.00500	0.00442 J	<0.0188	<0.00291
	5/16/2014	0.0195 J	<0.00500	0.0115	<0.0283	0.0122 J
	11/13/2014	0.0139 J	<0.00500	0.00655 J	<0.0283	<0.00316
MW022A DUP	5/25/2011	0.0111 J	0.0351	<0.0500	<0.100	<0.0500
	5/25/2011	0.0109 J	0.0342	<0.0500	<0.100	<0.0500
	11/17/2011	<0.0100	0.0598	0.0563	<0.200	<0.0200
	5/23/2012	<0.00756 J	0.0356	0.0408	<0.0188	<0.00291
	11/9/2012	<0.00756*	0.0580	0.0730*	<0.0188*	<0.002910*
	5/21/2013	<0.00756	0.0348	0.0389	<0.0188	<0.00291
	6/1/2013				P&A	
MW023A DUP	5/18/2011	0.014	<0.0100	<0.0500	<0.100 J	<0.0500
	11/10/2011	<0.0100	<0.0100 J	<0.0100	<0.200	<0.0200
	5/24/2012	<0.00756	<0.00500	0.0206	<0.0188	<0.00291
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/20/2013	0.0189 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/20/2013	0.0188 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/31/2013	0.0169 J	<0.00500	0.00591 J	<0.0188	0.00877 J
	5/8/2014	0.0175 J	<0.00500	0.00352 J	<0.0283	0.00892 J
	11/7/2014	0.00758 J	<0.00500	0.00472 J	<0.0283	<0.00316
MW024A DUP	5/18/2011	<0.0100	0.0481	<0.0500	<0.100 J	<0.0500
	11/10/2011	<0.0100 J	0.21	0.185	<0.200	<0.0200
	5/18/2012	<0.00756	0.186	0.183	<0.0188	<0.00291
	10/30/2012	<0.00756*	0.196	0.192*	<0.0188*	<0.00291*
	5/13/2013	0.0144 J	0.127	0.147	<0.0188	<0.00291
	10/30/2013	0.0275	0.0598	0.0616	<0.0188	<0.00291
	5/8/2014	0.0135 J	0.337	0.362	<0.0283	<0.00316
	5/8/2014	0.0137 J	0.338	0.354	<0.0283	0.00381 J
	11/7/2014	<0.00550	0.0665	0.0816	<0.0283	0.00379 J
MW039A DUP	5/26/2011	0.0220 J	0.093	0.0986	<0.100	<0.0500
	5/25/2012	<0.00756	0.0974	0.102	<0.0188	<0.00291
	5/25/2012	<0.00756	0.0984	0.103	<0.0188	<0.00291
	5/21/2013	0.0133 J	0.0989	0.101	<0.0188	<0.00291
	5/27/2014	0.0187 J	0.0948	0.102	<0.0283	<0.00316

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW040A	5/19/2011	<0.0100	<0.0100	<0.0500	<0.100 J	<0.0500
	11/9/2011	<0.0100 J	<0.0100	<0.0100	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/29/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/17/2013	0.0191 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/4/2013	0.0183 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/7/2014	0.0147 J	0.0104	<0.00162 J	<0.0283	<0.00796 J
	11/10/2014	0.0181 J	<0.00500	0.00225 J	<0.0283	<0.00316
MW041A	5/24/2011	0.0163 J	0.206	0.239	<0.100	<0.0500
	5/8/2012	<0.00756	0.212	0.257	<0.0188	<0.00291
	5/16/2014	0.0150 J	0.273	0.298	<0.0283	<0.00316
	5/16/2014	0.0136 J	0.271	0.293	<0.0283	0.0105 J
MW042A DUP	5/25/2011	0.0125 J	0.0343	<0.0500	<0.100	<0.0500
	5/25/2011	0.0114 J	0.0345	<0.0500	<0.100	<0.0500
	5/25/2012	<0.00756	0.0329	0.0357	<0.0188	<0.00291
	5/22/2013	<0.00756	0.0315	0.0360	<0.0188	<0.00291
	5/22/2014	<0.00550	0.0337	0.0348	<0.0283	<0.00316
MW046A DUP	5/25/2011	0.0113 J	0.0611	0.0597	<0.100	<0.0500
	5/25/2011	<0.0100	0.0606	0.062	<0.100	<0.0500
	5/23/2012	<0.00756 J	0.0571	0.0634	<0.0188	<0.00291
	5/22/2013	<0.00756	0.0573	<0.00355	<0.0188	<0.00291
	5/22/2014	0.00714 J	0.0585	0.0627	<0.0283	<0.00484 J
	5/22/2014	<0.00550	0.0580	0.0612	<0.0283	<0.00316
MW048SA DUP DUP	5/24/2011	0.0422 J	0.393	0.42	<0.100	<0.0500
	11/16/2011	<0.0100	0.381	0.374	<0.200	<0.0200
	5/16/2012	<0.00756	0.410	0.414	<0.0188	<0.00291
	11/8/2012	<0.00756*	0.449	0.455*	0.340*	<0.002910*
	11/8/2012	<0.00756*	0.451	0.440*	0.289*	0.0209 J*
	5/8/2013	<0.0115 J	0.464	0.458	<0.0188	<0.00291
	11/4/2013	0.0117 J	0.470	0.475	<0.0188	0.0322
	5/15/2014	<0.0179 J	0.492	0.464	<0.0283	<0.00579 J
	5/15/2014	<0.0180 J	0.494	0.475	<0.0283	<0.0101 J
	11/14/2014	0.0162 J	0.469	0.492	<0.0283	<0.00316
MW049SA	5/23/2011	0.014	0.12	0.109	<0.100	<0.0500
	5/17/2012	<0.00756 J	0.127	0.124	<0.0188	<0.00291
	5/8/2013	<0.0128 J	0.133	0.127	<0.0188	<0.00291
	5/15/2014	<0.0146 J	0.140	0.126	<0.0283	<0.00558 J
MW050SA	5/23/2011	0.0134	<0.0100	<0.0500	<0.100	<0.0500
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/8/2013	<0.0112 J	0.198	0.197	<0.0188	0.0153 J
	5/16/2014	0.0177 J	0.246	0.295	0.0295 J	0.0255
MW051SA DUP	5/23/2011	0.0115	0.808	0.704	<0.100	<0.0500
	5/16/2012	<0.00756	0.791	0.783	<0.0188	<0.00291
	5/16/2012	<0.00756	0.813	0.781	<0.0188	<0.00291
	5/8/2013	<0.0160 J	0.743	0.759	<0.0188	<0.00291
	5/8/2013	<0.0118 J	0.772	0.750	<0.0188	<0.00291
	5/15/2014	<0.0165 J	0.753	0.735	<0.0283	<0.00528 J

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW052SA	5/23/2011	0.0179	0.279	0.264	<0.100	<0.0500
	5/16/2012	<0.00756	0.265	0.272	<0.0188	<0.00291
	5/8/2013	<0.0232	0.255	0.254	<0.0188	<0.00291
	5/15/2014	<0.0171 J	0.240	0.231	<0.0283	<0.00339 J
MW053SA	5/24/2011	0.0234 J	<0.0100	<0.0500	<0.100	<0.0500
	11/16/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/16/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/9/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/8/2013	<0.0193 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/4/2013	0.0127 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/15/2014	<0.0179 J	<0.00500	<0.000811	<0.0283	<0.00316
	11/14/2014	0.0167 J	<0.00500	<0.000811	<0.0283	<0.00316
MW054SA	5/24/2011	0.0115	0.135	0.125	<0.100	<0.0500
	11/16/2011	<0.0100	0.148	0.153	<0.200	<0.0200
	5/16/2012	<0.00756	0.144	0.148	<0.0188	<0.00291
	11/7/2012	<0.00756*	0.148	0.153*	<0.0188*	<0.002910*
	11/7/2012	<0.00756*	0.149	0.154*	<0.0188*	<0.002910*
	5/8/2013	<0.0116 J	0.145	0.143	<0.0188	<0.00291
	11/4/2013	0.0107 J	0.142	0.143	<0.0188	<0.00291
	5/15/2014	<0.0157 J	0.148	0.148	<0.0283	<0.00357 J
DUP	11/14/2014	0.0199 J	0.141	0.149	<0.0283	<0.00316
	11/14/2014	0.0170 J	0.142	0.146	<0.0283	<0.00316
MW055SA	5/24/2011	0.0128	0.183	0.164	<0.100	<0.0500
	11/16/2011	<0.0100	0.215	0.339	<0.200	<0.0200
	5/16/2012	<0.00756	0.165	0.166	<0.0188	<0.00291
	5/16/2012	<0.00756	0.165	0.179	<0.0188	<0.00291
	11/7/2012	<0.00756*	0.161	0.165*	<0.0188*	<0.002910*
	11/7/2012	<0.00756*	0.161	0.166*	<0.0188*	<0.002910*
	5/7/2013	<0.00756	0.176	0.235	<0.0188	<0.00291
	10/31/2013	<0.00756	0.160 J	0.149	<0.0188	<0.00291
DUP	5/14/2014	0.0172 J	0.241	0.278	<0.0283	0.00419 J
	11/12/2014	0.0109 J	0.166	0.159	<0.0283	0.00502 J
MW056SA	5/17/2011	<0.0100	0.401	0.335	<0.100	<0.0500
	11/17/2011	<0.0100	0.345	0.202	<0.200	<0.0200
	5/16/2012	<0.00756	0.379	0.407	<0.0188	<0.00291
	5/16/2012	<0.00756	0.377	0.384	<0.0188	<0.00291
	11/8/2012	<0.00756*	0.420	0.416*	<0.0188*	<0.002910*
	5/8/2013	<0.0183 J	0.435	0.401	<0.0188	<0.00291
	11/4/2013	0.0154 J	0.290	0.412	<0.0188	<0.00291
	11/4/2013	0.0155 J	0.268	0.432	<0.0188	<0.00291
DUP	5/15/2014	<0.0186 J	0.392	0.370	<0.0283	<0.00316
	11/13/2014	0.0227	0.343	0.336	<0.0283	<0.00316
MW057SA	5/17/2011	0.0112 J	0.0287	<0.0500	<0.100	<0.0500
	11/10/2011	<0.0100 J	0.0158	0.0207	<0.200	<0.0200
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/31/2012	<0.00756*	0.0124	0.0129*	<0.0188*	<0.002910*
	5/8/2013	<0.0146 J	0.0215	0.0215	<0.0188	<0.00291
	5/14/2014	0.0249	<0.00500	0.000825 J	<0.0283	<0.00316
	11/11/2014	0.0127 J	<0.00500	0.00119 J	<0.0283	<0.00316

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW062A DUP	5/19/2011	0.0192	<0.0100	<0.0500	<0.100 J	<0.0500
	11/10/2011	<0.0100 J	<0.0100	<0.0100	<0.200	<0.0200
	11/10/2011	0.0118 J	<0.0100	<0.0100	<0.200	0.0227
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	0.0277
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/14/2013	0.0227	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2013	0.0185 J	<0.00500	<0.00355	<0.0188	0.0617
	5/13/2014	0.0179 J	<0.00500	<0.000811	<0.0283	<0.00316
	11/10/2014	0.0253	<0.00500	0.000903 J	<0.0283	<0.00316
MW063A DUP	5/19/2011	0.0121	<0.0100	<0.0500	<0.100 J	<0.0500
	11/10/2011	<0.0100 J	<0.0100	<0.0100	<0.200	<0.0200
	5/18/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/13/2013	0.0241	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2013	0.0180 J	<0.00500	<0.00355	<0.0188	0.00768 J
	5/13/2014	0.0209	0.00710 J	<0.000811	<0.0283	<0.00316
	11/10/2014	0.0199 J	<0.00500	<0.000811	<0.0283	<0.00316
	11/10/2014	0.0148 J	<0.00500	<0.000811	<0.0283	<0.00316
MW064SA	5/10/2011	0.0227 J	0.114	0.108	<0.100	<0.0500
	11/10/2011	<0.0100 J	0.0724	0.0667	<0.200	<0.0200
	5/11/2012	<0.00756	0.0745	0.0770	<0.0188	<0.00291
	10/30/2012	<0.00756*	0.0792	0.0808*	<0.0188*	<0.00291*
	5/6/2013	0.00818 J	0.0813	0.0817	<0.0188	<0.00291
	4/1/2014				P&A	
MW065SA DUP DUP	5/19/2011	<0.0100	0.0706	0.0604	<0.100 J	<0.0500
	11/14/2011	<0.0100	0.117	0.113	<0.200	<0.0200
	5/9/2012	<0.00756	0.220	0.206	<0.0188	<0.00291
	5/9/2012	<0.00756	0.221	0.218	<0.0188	<0.00291
	11/1/2012	<0.00756*	0.269	0.270*	<0.0188*	<0.002910*
	11/1/2012	<0.00756*	0.284	0.274*	<0.0188*	0.0228 J*
	5/7/2013	0.0105 J	0.317	0.314	<0.0188	<0.00291
	10/31/2013	0.0167 J	0.180	0.179	<0.0188	<0.00291
	5/14/2014	0.0162 J	0.0273	0.0355	<0.0283	<0.00316
	11/12/2014	0.0208	0.0743	0.0739	<0.0283	0.00853 J
MW066SA	5/18/2011	<0.0100	<0.0100	<0.0500	<0.100 J	0.634
	11/14/2011	<0.0100	<0.0100	<0.0100	<0.200	0.739
	5/15/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	0.534
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	1.01*
	5/7/2013	0.00811 J	<0.00500	<0.00355	<0.0188	1.19
	5/7/2013	0.00808 J	<0.00500	<0.00355	0.0276 J	1.09
	10/31/2013	0.00999 J	<0.00500	<0.00355	<0.0188	1.13
	5/15/2014	<0.0115 J	<0.00500	<0.000811	<0.0283	1.10
	11/12/2014	0.0110 J	<0.00500	<0.000811	<0.0283	0.883
MW067SA	5/19/2011	0.0386 J	<0.0100	<0.0500	<0.100	<0.0500
	11/15/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/16/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/8/2013	<0.0266	<0.00500	<0.00355	<0.0188	<0.00291
	11/1/2013	0.0152 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/15/2014	<0.0188 J	<0.00500	<0.000811	<0.0283	<0.00506 J
	11/13/2014	0.0165 J	<0.00500	<0.000811	<0.0283	<0.00316

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW070A	5/18/2011	0.0103	<0.0100	<0.0500	<0.100 J	<0.0500
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/14/2013	0.0203	<0.00500	0.00406 J	<0.0188	<0.00291
	5/8/2014	0.0153 J	<0.00500	0.00293 J	<0.0283	<0.00316
MW071SA	5/18/2011	<0.0100	<0.0100	<0.0500	<0.100 J	0.114
	11/14/2011	<0.0100	<0.0100	0.0114	<0.200	<0.0200
	5/8/2012	<0.00756	<0.00500	0.0174	<0.0188	0.0888
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	0.168*
	5/7/2013	0.0194 J	<0.00500	0.00425 J	<0.0188	0.203
	10/30/2013	0.0215	<0.00500	0.00507 J	<0.0188	0.220
	5/16/2014	0.0201	<0.00500	0.00635 J	<0.0283	0.208
	11/12/2014	0.0125 J	<0.00500	0.00368 J	<0.0283	<0.00316
MW072SA	5/24/2011	0.0155 J	<0.0100	<0.0500	<0.100	<0.0500
	11/14/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/15/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/8/2013	<0.0128 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/31/2013	0.0167 J	<0.00500	<0.00355	<0.0188	0.0345
	5/15/2014	<0.0177 J	<0.00500	<0.000811	<0.0283	<0.00767 J
	11/12/2014	0.0220	<0.00500	<0.000811	<0.0283	<0.00316
MW073SA	5/19/2011	0.0119 J	<0.0100	<0.0500	<0.100	<0.0500
	11/14/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/15/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/8/2013	<0.0135 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/16/2014	0.0135 J	<0.00500	<0.000811	<0.0283	<0.00316
	11/12/2014	0.0190 J	<0.00500	<0.000811	<0.0283	0.00434 J
	DUP 11/12/2014	0.0119 J	<0.00500	<0.000811	<0.0283	<0.00316
MW074SA	5/18/2011	<0.0100	<0.0100	<0.0500	<0.100 J	<0.0500
	11/10/2011	<0.0100	<0.0100 J	0.0186	<0.200	<0.0200
	5/16/2012	<0.00756	<0.00500	0.0135	<0.0188	<0.00291
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/7/2013	0.0116 J	0.00610 J	0.0149	<0.0188	<0.00291
	10/31/2013	0.0128 J	0.0113	0.0111	<0.0188	0.0530
	5/14/2014	0.0199 J	<0.00500	0.00988 J	<0.0283	0.00841 J
	11/11/2014	0.00628 J	0.0104	0.00908 J	<0.0283	<0.00316
MW075SA	5/10/2011	0.0141 J	<0.0100	<0.0500	<0.100	<0.0500
	11/11/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/9/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/6/2013	0.0103 J	<0.00500	<0.00466 J	0.0227 J	<0.00291
	10/30/2013	0.0125 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/14/2014	0.0217	<0.00500	0.00211 J	<0.0283	<0.00316
	11/11/2014	0.0148 J	<0.00500	0.00369 J	<0.0283	0.00954 J

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW076SA DUP	5/10/2011	0.0162 J	<0.0100	<0.0500	<0.100	<0.0500
	11/11/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/9/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.00291*
	5/7/2013	0.00936 J	<0.00500	<0.00355	<0.0188	<0.00291
	10/30/2013	0.0206	<0.00500	<0.00355	<0.0188	0.0442
	5/14/2014	0.0193 J	<0.00500	0.00211 J	<0.0283	<0.00316
	5/14/2014	0.0185 J	<0.00500	0.00233 J	<0.0283	<0.00316
	11/11/2014	0.0105 J	<0.00500	0.00312 J	<0.0283	<0.00316
MW077SA	5/10/2011	0.0208 J	<0.0100 J	<0.0500	<0.100	<0.0500
	11/11/2011	<0.0100	<0.0100	<0.0100	<0.200	0.0486
	5/9/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/6/2013	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	4/1/2014				P&A	
MW078SA	5/19/2011	0.0112 J	<0.0100	<0.0500	<0.100	<0.0500
	11/15/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/16/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/2/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/8/2013	<0.0106 J	<0.00500	<0.00355	<0.0188	<0.00291
	11/4/2013	0.0104 J	<0.00500	<0.00355	<0.0188	0.0180 J
	5/15/2014	<0.0174 J	<0.00500	<0.000811	<0.0283	<0.00443 J
	11/13/2014	0.0227	<0.00500	<0.000811	<0.0283	<0.00316
MW079SA	5/23/2011	<0.0100	0.0142	<0.0500	<0.100	0.0541
	11/15/2011	<0.0100	0.016	<0.0100	<0.200	0.0395
	5/9/2012	<0.00756	0.0355	<0.00355	<0.0188	0.0671
	11/7/2012	<0.00756*	<0.00500	<0.00355*	0.214*	0.0585*
	11/1/2013	0.00919 J	<0.00500	<0.00355	<0.0188	0.0225
	5/15/2014	<0.0145 J	<0.00500	<0.000811	<0.0283	0.0353
	11/13/2014	0.0189 J	<0.00500	0.00100 J	<0.0283	<0.00316
MW080SA	5/19/2011	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	11/15/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/9/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	11/7/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	3/31/2014				P&A	
MW081SA	5/19/2011	<0.0100	<0.0100	<0.0500	<0.100 J	<0.0500
	11/15/2011	<0.0100	<0.0100	<0.0100	<0.200	<0.0200
	5/9/2012	<0.00756	<0.00500	<0.00355	<0.0188	0.0281
	11/7/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	0.0712*
	5/8/2013	<0.0118 J	<0.00500	<0.00355	<0.0188	0.233
	3/31/2014				P&A	
MW082SA	5/10/2011	0.0192 J	<0.0100	<0.0500	<0.100	<0.0500
	11/10/2011	<0.0100 J	<0.0100	<0.0100	0.457	0.151
	5/11/2012	<0.00756	0.0620	<0.00355	0.576	0.139
	10/30/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	0.164*
	5/6/2013	<0.00756	<0.00500	<0.00430 J	0.0499 J	0.404
	4/1/2014				P&A	

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW083SA	5/9/2011	0.0399 J	<0.0100 J	<0.0500	<0.100	<0.0500
	11/10/2011	<0.0100 J	<0.0100 J	<0.0100	<0.200	0.369
	5/11/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	10/31/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	<0.002910*
	5/6/2013	<0.00756	0.00700 J	<0.00459 J	0.0433 J	2.46
	10/31/2013	<0.00756	<0.00500	<0.00355	0.0594 J	0.246
	5/14/2014	0.0167 J	<0.00500	0.00157 J	<0.0283	0.0454
	11/11/2014	<0.00550	<0.00500	0.00185 J	<0.0283	0.142
MW084SA	5/10/2011	0.0110 J	0.0431	<0.0500	0.382	0.248
	11/10/2011	<0.0100 J	0.0435	0.0451	<0.200	0.0251
	5/11/2012	<0.00756	0.0397	0.0405	<0.0188	<0.00291
	10/30/2012	<0.00756*	0.0377	0.0388*	<0.0188*	<0.00291*
	5/6/2013	0.0101 J	0.0294	0.0360	0.0294 J	<0.00291
	10/30/2013	0.0164 J	0.0239	0.0291	<0.0188	0.0533
	5/14/2014	0.0164 J	0.0186	0.0241	<0.0283	0.00379 J
	11/11/2014	<0.00550	0.0218	0.0240	<0.0283	<0.00316
MW085SA	5/9/2011	0.0154 J	<0.0100 J	<0.0500	1.05	0.244
	11/10/2011	<0.0100 J	<0.0100	<0.0100	1.19	0.896
	5/11/2012	<0.00756	0.0895	<0.00355	0.980	0.737
	10/31/2012	<0.00756*	<0.00500	<0.00355*	0.920*	0.668*
	5/6/2013	<0.00756	<0.00500	<0.00784 J	<0.0188	0.476
	10/31/2013	0.00961 J	<0.00500	<0.00355	<0.0188	0.707
	5/14/2014	0.0138 J	<0.00500	0.00238 J	0.0537 J	0.388
	11/11/2014	0.0127 J	<0.00500	<0.000811	<0.0283	0.499
MW086SA	5/19/2011	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	11/14/2011	<0.0100	<0.0100	0.0261	<0.200	<0.0200
	5/8/2012	0.0167	<0.00500	<0.00355	<0.0188	<0.00291
	11/1/2012	<0.00756*	<0.00500	<0.00355*	<0.0188*	0.0398*
	5/7/2013	0.00795 J	<0.00500	<0.00355	<0.0188	0.00506 J
	10/30/2013	0.0199 J	<0.00500	<0.00355	<0.0188	0.0895
	5/14/2014	0.0137 J	<0.00500	<0.000811	<0.0283	0.00416 J
	11/12/2014	0.0178 J	<0.00500	<0.000811	<0.0283	0.00433 J
MW087A	5/26/2011	0.0219 J	<0.0100	0.112	<0.100	<0.0500
	5/25/2012	<0.00756	0.0479	0.0996	0.320	0.0216
	5/16/2013	0.0201	0.0162	0.0596	0.661	0.0851
	5/8/2014	<0.00550	<0.0250	0.0351	0.202	0.197
MW089SA	5/24/2011	0.0172 J	1.09	1.07	<0.100	<0.0500
	5/22/2012	<0.00756	0.0195	0.0226	<0.0188	<0.00291
	5/22/2012	<0.00756	0.0177	0.0220	<0.0188	<0.00291
	5/15/2013	<0.00756	0.0299	0.0381	<0.0188	<0.00291
	5/27/2014	<0.00550	0.0220	0.0261	<0.0283	<0.00316
	5/27/2014	<0.00550	0.0216	0.0261	<0.0283	<0.00316
MW090SA DUP	5/25/2011	0.0129 J	0.0199	<0.0500	<0.100	<0.0500
	5/25/2011	0.0138 J	0.0208	<0.0500	<0.100	<0.0500
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/14/2013	<0.00756	<0.00500	0.00542 J	<0.0188	<0.00291
	5/22/2014	<0.00550	<0.00500	0.00579 J	<0.0283	<0.00331 J

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
MW091SA	5/24/2011	<0.0100	0.0217	<0.0500	<0.100	<0.0500
	5/8/2012	<0.00756	0.0510	0.0567	<0.0188	<0.00291
	5/21/2014	<0.00550	0.124	0.120	<0.0283	<0.00316
MW092SA	5/23/2011	0.0152	<0.0100	<0.0500	<0.100	<0.0500
	5/11/2012	<0.00756	<0.00500	0.0129	<0.0188	<0.00291
	3/31/2014				P&A	
MW093SA DUP	5/23/2011	<0.0100	<0.0100	<0.0500	<0.100	<0.0500
	5/11/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	5/10/2013	<0.00756	0.251	0.210	0.0278 J	<0.00291
	5/10/2013	<0.00756	0.306	0.286	0.0204 J	<0.00291
	5/21/2014	<0.00550	<0.00500	<0.000811	<0.0283	0.0102 J
IW003	5/20/2011	0.0502 J	<0.100	<0.0500	17.5	9.39
	5/11/2012	0.0111	0.115	<0.00355	3.60	5.12
	5/20/2014	0.0183 J	<0.0250	0.00673 J	2.22	8.57
IW004	5/20/2011	<0.0100	<0.100	<0.0500	0.318	2.36
	5/11/2012	<0.00756	0.0125	0.0128	0.227	3.88
	5/20/2014	<0.00550	<0.0250	0.0108	<0.0283	3.47
IW005	5/20/2011	0.0605 J	<0.100	<0.0500	16.2	3.93
	5/11/2012	<0.00756	0.109	0.0162	3.25	3.78
	5/7/2013	0.0165 J	<0.00500	0.0129	1.61	1.07
	5/16/2014	0.00973 J	<0.00500	0.0109	0.822	2.16
IW006	5/20/2011	0.0371 J	<0.100	<0.0500	5.04	4.63
	5/11/2012	<0.00756	0.0276	<0.00355	0.960	2.50
	5/7/2013	<0.00756	<0.00500	0.00531 J	0.513	1.32
	5/16/2014	0.0197 J	<0.00500	0.00793 J	1.19	4.58
IW007	5/19/2011	0.178 J	0.366	<0.0500	17.2	3.62
	5/15/2012	0.131 J	0.670	0.0360	15.3	4.43
	5/7/2013	0.107	<0.00500	0.0444 J	10.2	3.98
	5/29/2014	0.0423	<0.0500	0.0253	9.32	4.25
IW008	5/20/2011	0.0367 J	<0.100	<0.0500	2.33	2.65
	5/15/2012	0.0335 J	0.0747	<0.00355	1.39	2.86
	5/7/2013	0.0192 J	<0.00500	0.00472 J	0.679	2.60
	5/20/2014	0.00642 J	<0.0250	0.00377 J	<0.232	2.21
	5/20/2014	0.00756 J	<0.0250	0.00383 J	<0.190 J	2.24
IW009	5/20/2011	0.0517 J	0.123	<0.0500	9.43	17.6
	5/20/2014	0.0186 J	<0.0250	0.00746 J	1.61	5.23
IW010	5/20/2011	<0.0100	<0.100	<0.0500	10.5	6.99
	5/15/2012	<0.00756 J	0.0257	<0.00355	1.86	10.1
	5/7/2013	<0.00756	<0.00500	0.00403 J	0.0813 J	9.17
	5/19/2014	<0.00550	<0.0250	0.00147 J	<0.0283	10.1

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
IW011	5/20/2011	0.0788 J	<0.100	<0.0500	1.65	1.38
	5/15/2012	0.0363 J	0.0807	<0.00355	1.70	1.48
	5/7/2013	0.0457	<0.00500	<0.00355	0.765	0.990
	5/19/2014	0.0337	<0.0250	0.00380 J	0.818	1.02
IW012	5/20/2011	0.128 J	0.491	<0.0500	14.6	1.16
IW013	5/20/2011	<0.0100	<0.100	<0.0500	0.127	0.186
	5/15/2012	<0.00756 J	0.0116	<0.00355	0.301	0.220
	5/13/2013	<0.00756	<0.00500	<0.00355	0.398	0.226
	5/19/2014	0.00915 J	<0.0250	0.00443 J	<0.0283	0.221
IW014 DUP	5/20/2011	0.109 J	0.453	<0.0500	3.23	0.363
	5/15/2012	0.0336 J	0.540	<0.00709	1.71	0.388
	5/15/2012	0.0620 J	0.558	<0.00709	1.90	0.345
	5/6/2013	0.144	<0.0500	0.0731	2.19	0.785
	5/19/2014	0.0508	<0.0250	0.0128	<0.0283	0.277
IW015	5/20/2011	0.0546 J	<0.100	<0.0500	6.9	0.246
	5/11/2012	0.0210	0.107	0.0202	2.19	0.274
	5/20/2014	0.0237	<0.0250	0.0153	0.617	0.0939
IW016	5/20/2011	0.0331 J	<0.100	<0.0500	5.2	0.611
	5/9/2012	0.0817	0.0642	<0.00355	0.791	0.334
	5/20/2014	0.00577 J	<0.0250	<0.000811	<0.226	0.225
IW018	5/23/2011	0.0107	<0.0100	<0.0500	<0.100	<0.0500
	5/11/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	5/10/2013	0.0309	0.856	1.17	1.94	1.43
	5/20/2014	0.00653 J	<0.00500	0.00193 J	<0.0283	0.348
IW019	5/23/2011	0.0178	<0.0100	<0.0500	<0.100	<0.0500
	5/11/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	5/10/2013	<0.00756	<0.00500	<0.00355	<0.0188	0.0196 J
	5/20/2014	<0.00550	<0.00500	0.00194 J	<0.0283	0.0419
IW020	5/23/2011	0.0121	<0.0100	<0.0500	<0.100	<0.0500
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/10/2013	<0.00756	0.0931	0.111	<0.0188	0.0407
	3/31/2014				P&A	
IW021	5/23/2011	0.0102	<0.0100	<0.0500	<0.100	<0.0500
	5/17/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/13/2013	0.0120 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/21/2014	<0.00550	<0.00500	0.00181 J	<0.0283	<0.00316
IW022	5/24/2011	0.0109	0.0244	<0.0500	<0.100	<0.0500
	5/17/2012	<0.00756 J	0.0499	0.0533	<0.0188	<0.00291
	5/13/2013	<0.00756	0.133	0.139	<0.0188	<0.00291
	5/21/2014	<0.00550	0.0350	0.0384	<0.0283	<0.00316

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
IW023	5/24/2011	<0.0100	0.0199	<0.0500	<0.100	<0.0500
	5/18/2012	<0.00756	<0.00500	<0.00355	<0.0188	<0.00291
	5/13/2013	0.00985 J	0.00760 J	0.0108	0.0262 J	<0.00291
	5/21/2014	0.00892 J	0.0177	0.0189	<0.0283	<0.00316
	5/21/2014	<0.00550	0.0181	0.0161	<0.0283	<0.00316
IW024	5/24/2011	<0.0100	0.185	0.169	<0.100	<0.0500
	5/24/2012	<0.00756	0.107	0.106	<0.0188	<0.00291
	5/14/2013	<0.00756	0.0651	0.0723	<0.0188	<0.00291
	5/22/2014	<0.00550	0.306	0.321	<0.0283	<0.00925 J
IW025	05/25/11			Not Sampled	- Well	Silted In
	5/24/2012	<0.00756	0.0312	0.0777	1.20	0.223
	5/14/2013	<0.00756	<0.00500	0.0269	0.993	0.120
	5/22/2014	<0.00550	<0.00500	0.0595	<0.0283	0.345
IW026	05/25/11			Not Sampled	- Well	Silted In
	5/23/2012	<0.00756 J	<0.00500	<0.00355	<0.0188	<0.00291
	5/14/2013	<0.00756	<0.00500	0.00527 J	<0.0188	<0.00291
	5/22/2014	0.00624 J	0.117	0.114	<0.0283	<0.0121 J
IW027	5/24/2011	0.0122	0.0153	<0.0500	<0.100	<0.0500
	5/23/2012	<0.00756 J	0.0105	0.0157	<0.0188	<0.00291
	5/14/2013	<0.00756	<0.00500	0.0123	<0.0188	<0.00291
	5/22/2014	0.00784 J	0.0103	0.0139	<0.0283	<0.00718 J
IW028	5/23/2011	0.0127	0.052	<0.0500	<0.100	<0.0500
	5/22/2012	<0.00756	0.0144	0.0203	<0.0188	0.0258
	5/22/2012	<0.00756	0.0132	0.0185	<0.0188	<0.00291
	5/15/2013	0.0110 J	0.0127	0.0202	<0.0188	<0.00291
	5/22/2014	<0.00550	0.0341	0.0369	<0.0283	<0.00316
IW029P	5/7/2014	0.00591 J	<0.0250	<0.000811	32.2	1.91
RW004A DUP	5/25/2011	0.0265 J	<0.100	<0.0500	367	10.7
	5/25/2011	0.0228 J	<0.100	0.0715	589	11.3
	5/25/2012	<0.0378	2.96	<0.0177	9.80	1.16
	5/20/2013	0.0102 J	<0.0500	0.0260	7.25	0.215
	5/8/2014	0.0146 J	<0.0250	0.0245	8.67	0.273
Water Wells						
EPWW1	5/18/2011	<0.0100	<0.100	<0.0500	<0.100 J	<0.0500
	5/21/2012	<0.00756	0.968	0.0475	0.301	0.0494
GOPWW2	5/25/2011	0.0203 J	<0.0100	<0.0500	<0.100	0.884
	11/17/2011	<0.0100	<0.0100	<0.0100	0.436	1.05
	5/8/2012	0.0710	<0.00500	<0.00355	<0.0188	1.05
	11/1/2012	<0.00756*	<0.00500	<0.00355*	17.2*	1.80*
	5/23/2013	<0.00756	<0.00500	<0.00355	<0.0188	1.11

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA - SELECT INORGANIC METALS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Arsenic (dissolved) (mg/L)	Chromium VI (hexavalent) (mg/L)	Chromium Total (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Manganese (dissolved) (mg/L)
NMWQCC Standard mg/L		0.1	0.05	0.05	1	0.2
LordWW	5/26/2011	<0.0100	<0.0100	<0.0500	0.593	0.133
	11/10/2011	<0.0100	<0.0100 J	<0.0100	2.24	0.126
	5/18/2012	<0.00756	<0.00500	<0.00355	<0.0188	0.115
	10/26/2012	<0.00756*	<0.00500	<0.00355*	9.71*	0.208*
	5/23/2013	<0.00756	0.0174	<0.00355	<0.0188	0.0539
	11/5/2013	<0.00756	<0.00500	<0.00355	0.507	0.261
	5/9/2014	<0.00550	<0.0250	<0.000811	<0.0283	0.0822
	11/10/2014	<0.00550	<0.00500	<0.000811	<0.0283	0.147
RolandWW DUP	5/25/2011	<0.0100	<0.0100	<0.0500	0.165	0.0539
	5/25/2011	<0.0100	<0.0100	0.0564	0.24	0.0563
WoodellWW DUP	5/25/2011	0.0144 J	0.0176	<0.0500	<0.100	<0.0500
	5/25/2011	<0.0100	0.0176	<0.0500	<0.100	<0.0500
	5/16/2012	<0.00756	0.0380	0.0421	<0.0188	<0.00291
	10/31/2012	<0.00756*	0.0285	0.0314*	<0.0188*	<0.002910*
	5/22/2013	0.00973 J	0.0299	0.0329	<0.0188	<0.00291
	10/31/2013	0.00793 J	0.0843	0.0866	<0.0188	0.0623
	5/29/2014	0.00857 J	0.0341	0.0446	<0.0283	<0.00316
	11/14/2014	0.0168 J	0.0638	0.0967	<0.0283	<0.00316

Notes:

Dissolved Metals (Arsenic, Chromium, Hexavalent Chromium, Iron, Manganese).

were analyzed by EPA Method 6010B/7196A.

New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103.A

mg/L (ppm) - milligrams per liter (parts per million).

Bold indicates that a COC was detected.

Shading indicates that a detected result exceeded the NMWQCC Standard.

<#.#### - Not detected at or above MDL for 2012 and RL for 2011.

* - result measured as total, not dissolved

NG - Not Gauged

P&A - Plugged and Abandoned

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard mg/L		0.01	0.75	0.75	0.62	--	--
<i>Shallow Monitor Wells</i>							
MW001	5/11/11	<0.0010	<0.0010	0.00378	<0.0010	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	0.00236	<0.000700	<1.50	<1.50
	5/21/2013	<0.000500	<0.00100	0.00661	<0.000700	<0.988	<0.988
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW002	5/16/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW003	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW004 Dup	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/15/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/21/2014	<0.000800	<0.00100	<0.000800	<0.000700	1.25 J	<0.975
MW005	5/17/11	0.141	<0.0020	0.0116	0.00452	<1.50	<1.50
	5/24/12	0.188	<0.00100	0.142	0.00288	<1.50	<1.50
	5/22/2013	0.396	<0.00100	0.222	0.00313	4.59	4.01
MW006	5/17/11	2.25	<0.0400	0.142	<0.0200	<1.50	2.89
MW007	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/9/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW008 DUP	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	1.01 J	<0.976
MW008M DUP	5/11/11	0.00130	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW009	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/15/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard mg/L		0.01	0.75	0.75	0.62	--	--
MW010 DUP	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/21/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/17/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/4/2013	0.00615	0.00682	0.00293	0.00267	<0.988	<0.988
	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/5/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/5/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW011	5/16/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW011M DUP	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW012	5/13/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/28/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW012M	5/13/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/28/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW013 Dup Dup	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/17/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/4/2013	0.00405	0.00459	0.00184	0.00182	<0.988	<0.988
	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard mg/L		0.01	0.75	0.75	0.62	--	--
MW014	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/18/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/5/2013	<0.000500	<0.00100	<0.000700	0.00237	<0.988	<0.988
	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/5/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW015	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/5/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/4/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW018	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/21/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	1.07 J	<0.988
	11/5/2013	<0.000500	<0.00100	<0.000700	0.00327	<0.988	<0.988
	5/9/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.974	<0.974
	11/4/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW020	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/4/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW021	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	3/31/14					P&A	
MW023	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/6/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard mg/L		0.01	0.75	0.75	0.62	--	--
MW024	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW025	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	4/1/2014					P&A	
MW026 DUP-2 DUP	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/5/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/5/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/9/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.974	<0.974
	11/5/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW027	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/5/2013	<0.000500	<0.00100	<0.000700	0.00268	<0.988	<0.988
	5/9/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.974	<0.974
	11/5/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW028	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	4/1/2014					P&A	
MW029 DUP-1	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	4/1/2014					P&A	

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard mg/L		0.01	0.75	0.75	0.62	--	--
MW030	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW030P	5/9/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW031	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW032	5/12/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/5/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW033	5/12/11	0.112	<0.0020	0.123	<0.0010	<1.50	<1.50
	11/7/11	0.116	<0.00200	0.158	<0.00100	<1.50	<1.50
	5/17/12	0.0112	<0.00100	0.00451	<0.000700	<1.50	<1.50
	11/6/12	0.117	<0.00100	0.105	<0.000700	<0.988	<0.988
	5/20/2013	0.0335	<0.00100	0.0133	<0.000700	<0.988	<0.988
	10/28/2013					P&A	
MW034	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/16/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW035	5/11/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/22/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	3/31/2014					P&A	
MW036	5/16/11	0.0849 J	0.00224 J	0.00543 J	0.539 J	<1.50	2.18
	5/25/12	0.0621	0.00200	0.0147	0.592	<1.50	3.29
	5/22/2013	0.0676	<0.00100	0.120	0.205	<0.988	3.03
	5/27/2014	0.0832	0.00128 J	0.0606	0.636	0.981 J	4.81

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard mg/L		0.01	0.75	0.75	0.62	--	--
MW037 DUP	5/17/11	2.46	<0.0020	0.203 J	<0.0010	2.70	3.07
	5/17/11	2.14 J	<0.0400	0.224 J	<0.0200	2.41	2.60
	5/25/12	0.105	<0.00100	0.00895	0.00308	<1.50	<1.50
	5/15/2013	6.62	<0.0500	0.534	0.134	4.10	7.09
	5/23/2014	0.996	<0.00500	0.113	<0.00350	1.25 J	1.86
MW038 DUP	5/11/11	0.00494	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/23/2013	0.000609 J	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2014	0.00282	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW043	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW044	5/12/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/20/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW045	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	0.00110	<0.000700	<1.50	<1.50
	5/22/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/22/2014	0.0135 J	<0.00100	0.0722	0.0476	1.15 J	1.69
MW046	5/16/11	0.0305	<0.0020	0.0569	0.0120	<1.50	<1.50
	5/23/12	0.0398	<0.00100	0.0791	0.0131	<1.50	<1.50
	5/21/2013	0.0520	<0.00100	0.140	0.0693	1.08 J	1.84
	5/23/2014	0.0692	<0.00100	0.117	0.0254	1.41 J	2.30
MW047	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/27/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW058 Dup Dup DUP	5/13/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/6/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/6/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard mg/L		0.01	0.75	0.75	0.62	--	--
MW059	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/10/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW060	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/7/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	0.00359	<0.00100	0.00371	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.974	<0.974
	11/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW061 DUP	5/13/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	11/8/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/1/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	5/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW068 DUP	11/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	5/13/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/13/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW069	11/5/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	5/16/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard mg/L		0.01	0.75	0.75	0.62	--	--
MW070 DUP	5/13/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/6/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW088M	11/10/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	5/11/11	0.00113	<0.0020	0.00205	<0.0010	6.77	15.6
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50 J	<1.50 J
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	0.999 J	11.6
MW094 DUP	5/9/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	3.36
	11/17/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50 J	<1.50 J
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/1/2013	0.00140	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/9/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW095 Dup	11/5/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/17/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50 J	<1.50 J
	5/25/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/25/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/9/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW096P	11/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW097P	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
IW001	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	5/17/11	<0.0010	0.00311	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500	0.00279	<0.000700	<0.000700	<1.50	<1.50
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
IW001	5/8/2014	<0.000800	0.00116 J	<0.000800	<0.000700	<0.975	<0.975

TABLE 5
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard mg/L		0.01	0.75	0.75	0.62	--	--
IW002	5/17/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/22/2013	<0.000500	<0.00100	<0.000700	<0.000700	1.11 J	<0.988
	5/28/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
RW002	5/17/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	3/31/2014					P&A	
RW003	5/17/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/21/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/22/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/28/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976

Notes:

Benzene, Toluene, Ethylbenzenes & Total Xylenes were analyzed by EPA Method 8021B.

Total Petroleum Hydrocarbons (DRO/GRO) were analyzed by 8015M.

New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103.A

mg/L (ppm) - milligrams per liter (parts per million).

NG - Not Gauged

P&A - Plugged and Abandoned

NA - Not Analyzed.

Bold indicates that a COC was detected.

Shading indicates that a detected result exceeded the NMWQCC Standard.

<#.####-Not detected at or above MDL for 2012 and RL for 2011.

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
Deep Monitor Wells							
MW002A	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW004A	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/15/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/21/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW007A	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW008A	5/26/11	0.00154	<0.0020	<0.0010	<0.0010	2.82	6.85
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW009A DUP	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/27/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW011A DUP	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW012A	5/25/11	-	-	-	-	<1.50	<1.50
	5/26/11	<0.0010	<0.0020	<0.0010	<0.0010	-	-
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW013A	5/28/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
DUP	5/19/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/17/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/4/2013	0.00275	0.00214	0.00109	0.00910	<0.988	<0.988
	11/4/2013	0.00147	0.00177 J	0.00101	0.00844	<0.988	<0.988
	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.00225	<0.00196
	11/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
MW014A	5/18/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/18/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/5/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/5/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW015A	5/18/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/5/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	DUP 11/5/2013	<0.000500	<0.00100	<0.000700	0.00218 J	<0.988	<0.988
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/10/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW016A	5/17/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/5/2013	0.00306	<0.00100	<0.000700	0.00302	<0.988	<0.988
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW017A					Plugged	And	Abandoned
MW018A	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/21/12	<0.000500	<0.00100	2	<0.000700	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	4/1/2014					P&A	
MW019A	5/17/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/21/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/5/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/4/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
MW020A	5/16/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/4/2013	<0.000500	<0.00100	<0.000700	0.00211	<0.988	<0.988
	5/6/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/4/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW021A DUP	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	4.81	<1.50
	11/17/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	11/17/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/1/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW022A DUP	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/17/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/9/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	6/1/2013					P&A	
MW023A DUP	5/18/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW024A DUP	5/18/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/18/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	1.89	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW039A DUP	5/26/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/21/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/27/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
MW040A	5/19/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/9/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/29/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/17/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/4/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/10/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW041A	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/16/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	5/16/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.977	<0.977
MW042A DUP	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/22/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW046A DUP	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/23/12	0.00113	<0.00100	0.00277	<0.000700	<1.50	<1.50
	5/22/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW048SA DUP DUP	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/16/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/16/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	11/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/4/2013	<0.000500	<0.00100	<0.000700	0.00678	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW049SA	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW050SA	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	1.85	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/8/2013	0.00200	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2014	0.00210	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW051SA DUP DUP	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/16/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/16/2012	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
MW052SA	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	4.97	<1.50
	5/16/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW053SA	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/16/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/16/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	11/9/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/4/2013	0.00113	<0.00100	<0.000700	0.00766	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW054SA	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/16/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/16/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/7/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/7/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/4/2013	<0.000500	<0.00100	<0.000700	0.00384	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	DUP	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	DUP	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	DUP	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW055SA	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/16/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/16/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/16/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	11/7/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/7/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	DUP	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW056SA	5/17/11	0.00106	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/17/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50 J	<1.50 J
	5/16/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/16/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/4/2013	0.000750 J	0.00110 J	<0.000700	0.00547	<0.988	<0.988
	11/4/2013	0.00190 J	0.00166 J	<0.000700	0.00558	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	DUP	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW057SA	5/17/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/11/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
MW062A DUP	5/19/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/10/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW063A DUP	5/19/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/18/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/10/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/10/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW064SA	5/10/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	1.58	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	4/1/2014					P&A	
MW065SA DUP DUP	5/19/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/14/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/9/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/9/2012	<0.000500	<0.00100	<0.000700	<0.000700	R	R
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW066SA DUP	5/18/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/14/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/15/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW067SA	5/19/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/15/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/16/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/1/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
MW070A	5/18/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW071SA	5/18/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/14/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50 J	<1.50 J
	5/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW072SA	5/18/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/14/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/15/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW073SA	5/19/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/14/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/15/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	DUP 11/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW074SA	5/18/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/16/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/11/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW075SA	5/10/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/11/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/9/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2013	0.000590 J	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/11/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW076SA	5/10/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/11/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/9/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	DUP 5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/11/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
MW077SA	5/10/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/11/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/9/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	4/1/2014					P&A	
MW078SA	5/19/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/15/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/16/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	11/2/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/4/2013	0.000540 J	<0.00100	<0.000700	0.00373	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW079SA	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/15/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/9/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/7/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/1/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/15/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/13/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW080SA	5/19/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	11/15/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/9/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/7/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	3/31/14					P&A	
MW081SA	5/19/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/15/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/9/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/7/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	3/31/14					P&A	
MW082SA	5/10/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100 J	<0.00200 J	<0.00100 J	<0.00100 J	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50 J	<1.50 J
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	4/1/2014					P&A	
MW083SA	5/9/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/11/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
MW084SA	5/10/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/30/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/11/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW085SA	5/9/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/11/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW086SA	5/19/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/14/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/30/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	11/12/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
MW087A	5/26/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/16/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW089SA Dup DUP	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/22/2012	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/27/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
MW090SA DUP	5/27/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW091SA	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW092SA	5/21/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
MW093SA	3/31/14					P&A	
	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/10/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/10/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
MW093SA	5/21/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
IW003	5/20/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/20/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.977	<0.977
IW004	5/20/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/20/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
IW005	5/20/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/16/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
IW006	5/20/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	1.28 J
	5/16/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
IW007	5/19/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	5/15/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	1.50 J
	5/29/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
IW008 DUP	5/20/11	<0.0010 J	<0.0020 J	<0.0010 J	<0.0010 J	<1.50	<1.50
	5/15/12	<0.000500 J	0.0272 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/20/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	5/20/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
IW009	5/20/11	<0.0100 J	<0.0200 J	<0.0100 J	<0.0100 J	440	441
	5/20/2014	<0.000800	<0.00100	<0.000800	<0.000700	8.52	6.94
IW010	5/20/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/15/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/19/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
IW011	5/20/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/15/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/7/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/19/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
IW012	5/20/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
IW013	5/20/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/15/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	1.26 J	<0.988
	5/19/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.977	<0.977
IW014 DUP	5/20/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/15/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/15/2012	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/6/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/19/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
IW015	5/20/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/20/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
IW016	5/20/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/9/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/20/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
IW018	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	2.28
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/10/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/20/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
IW019	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50 J	1.56 J
	5/11/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/10/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/20/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
IW020	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/10/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	3/31/2014					P&A	
IW021	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/21/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
IW022	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/17/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/21/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
IW023 DUP	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/18/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/13/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/21/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
	5/21/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
IW024	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	2.16	<0.975
IW025	5/25/11					Not Sampled	- Well Silted In
	5/24/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	1.29 J	<0.988
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
IW026	5/25/11					Not Sampled	- Well Silted In
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
IW027	5/24/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/23/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/14/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA - BTEX AND TPH
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	TPH-DRO (mg/L)	TPH-GRO (mg/L)
NMWQCC Standard		0.01	0.75	0.75	0.62	--	--
IW028	5/23/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
DUP	5/22/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/22/2012	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	5/22/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
IW029P	5/7/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
RW004A	5/25/11	<0.00500 J	<0.0100 J	<0.00500 J	<0.00500 J	8.72 J	45.9 J
DUP	5/25/11	<0.00500 J	<0.0100 J	<0.00500 J	<0.00500 J	15.6 J	78.2 J
	5/25/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	5/20/2013	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/8/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.976	<0.976
Water Wells							
EPWW1	5/18/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/21/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
GOPWW2	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/17/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50 J	<1.50 J
	5/8/12	<0.000500	<0.00100	<0.000700	<0.000700	<1.50	<1.50
	11/1/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/23/13	<0.000500	<0.00100	0.00101	<0.000700	<0.988	<0.988
LordWW	5/26/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	11/10/11	<0.00100	<0.00200	<0.00100	<0.00100	<1.50	<1.50
	5/18/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	10/26/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/23/13	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	11/5/13	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/9/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/10/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
RolandWW	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
DUP	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
WoodellWW	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/25/11	<0.0010	<0.0020	<0.0010	<0.0010	<1.50	<1.50
	5/16/12	<0.000500 J	<0.00100 J	<0.000700 J	<0.000700 J	<1.50	<1.50
	10/31/12	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/22/13	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	10/31/13	<0.000500	<0.00100	<0.000700	<0.000700	<0.988	<0.988
	5/29/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975
	11/14/2014	<0.000800	<0.00100	<0.000800	<0.000700	<0.975	<0.975

Notes:

Benzene, Toluene, Ethylbenzenes & Total Xylenes were analyzed by EPA Method 8021B.

Total Petroleum Hydrocarbons (DRO/GRO) were analyzed by 8015M.

New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103.A

mg/L (ppm) - milligrams per liter (parts per million).

NG - Not Gauged

P&A - Plugged and Abandoned

NA - Not Analyzed.

Bold indicates that a COC was detected.

Shading indicates that a detected result exceeded the NMWQCC Standard.

<#.#### Not detected at or above MDL for 2012 and RL for 2011.

TABLE 7
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
<i>Shallow Monitor Wells</i>			
MW001	5/11/2011	181	4,370
	5/24/2012	131	2,970
	5/21/2013	127	2,780
	5/6/2014	429	3,240
MW002	5/16/2011	1,330	4,200
	5/24/2012	1,210	4,640
	5/21/2013	1,130	4,130
	5/22/2014	912	3,180 J
MW003	5/22/2012	21	1,210
	5/16/2013	46	1,040
	5/7/2014	383	2,000
MW004 DUP	5/16/2011	761	3,220
	5/22/2012	640	3,190
	5/22/2012	658	3,700
	5/15/2013	298	1,810
	5/21/2014	571	2,800
MW005	5/17/2011	321	1,170
	5/24/2012	311	1,510
	5/22/2013	210	1,300
MW006	5/17/2011	1,520	2,740
MW007	5/22/2012	472	2,190
	5/16/2013	173	1,220
	5/9/2014	366	1,780
MW008 DUP	5/11/2011	1,020 J	3,600
	5/11/2011	1,840 J	3,840
	5/25/2012	983	4,280
	5/16/2013	839	3,760
	5/7/2014	924	4,000
MW008M	5/11/2011	1,380	4,360
	5/25/2012	1,370	5,220
	5/20/2013	1,370	5,100
	5/6/2014	1,330	5,390
	5/6/2014	1,330	5,390
MW009	5/11/2011	148	1,260
	5/22/2012	224	1,510
	5/15/2013	132	1,180
	5/6/2014	125	1,540

TABLE 7
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
MW010 DUP	5/11/2011	2,880	5,170
	11/7/2011	2,440	5,240
	5/21/2012	2,570	7,250
	10/26/2012	2,680	6,400
	5/17/2013	2,440	6,280
	11/4/2013	2,430	6,240
	5/7/2014	2,360	5,380
	11/5/2014	1,990	4,510
	11/5/2014	1,490	4,460
MW011	5/16/2011	1,210	3,900
	5/22/2012	1,130	4,590
	5/20/2013	1,130	3,430
	5/8/2014	1,190	3,700
MW011M DUP	5/11/2011	1,450	3,590
	5/11/2011	1,500	3,800
	5/22/2012	1,420	4,340
	5/20/2013	1,290	4,400
	5/6/2014	1,240	4,720
MW012	5/13/2011	747	2,320
	5/22/2012	768	2,980
	5/21/2013	399	2,050
	5/28/2014	446	1,980
MW012M	5/13/2011	693	5,560
	5/22/2012	861	5,830
	5/21/2013	744	4,900
	5/28/2014	779	5,220
MW013	5/12/2011	522	2,680
	11/8/2011	482	2,240
	5/17/2012	321 J	2,100
	5/17/2012	329 J	2,160
	11/1/2012	272	1,790
	11/1/2012	278	1,830
	5/17/2013	301	1,730
	11/4/2013	650	3,230
	5/7/2014	536	2,570
	11/7/2014	420	2,460 J
MW014	5/11/2011	1,420	3,260
	11/7/2011	1,460	3,760
	5/18/2012	1,370	3,500
	10/29/2012	1,670	4,410
	5/16/2013	1,540	3,820
	11/5/2013	1,180	3,600
	5/7/2014	1,400	3,520
	11/5/2014	1,890	3,900

TABLE 7
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
MW015	5/11/2011	1,480	3,000
	11/7/2011	909	2,480
	5/17/2012	777 J	2,620
	10/29/2012	576	2,070
	5/16/2013	532	2,050
	11/5/2013	543	2,250
	5/6/2014	639	2,480
	11/4/2014	438	2,020
MW018	5/11/2011	180	1,400
	11/8/2011	230	1,380
	5/21/2012	221	1,430
	10/26/2012	260	1,180
	5/13/2013	268	1,310
	11/5/2013	1,620	3,960
	5/9/2014	220	1,220
	11/4/2014	149	1,080
MW020	5/11/2011	963	2,510
	11/8/2011	863	2,770
	5/17/2012	894 J	2,580
	10/26/2012	917	2,050
	5/13/2013	865	2,420
	5/6/2014	741	2,530
	11/4/2014	670	2,470
MW021	5/12/2011	64	858
	11/8/2011	79	632
	5/23/2012	65	841
	11/1/2012	80	900
	3/31/2014		P&A
MW023	5/16/2011	956	3,280
	11/8/2011	778	2,890
	5/24/2012	810	3,720
	11/6/2012	802	3,650
	5/21/2013	767	3,500
	10/31/2013	762	3,680
	5/8/2014	812	3,440
	11/7/2014	776	3,850 J
MW024	5/12/2011	435	1,600
	11/9/2011	575	1,830
	5/22/2012	634	2,580
	11/1/2012	646	1,810
	5/14/2013	674	1,940
	10/30/2013	631	2,730
	5/8/2014	736	2,480 J
	11/6/2014	625	2,530

TABLE 7
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
MW025	5/11/2011	153	1,180
	11/7/2011	547	1,680
	5/22/2012	213	1,230
	10/29/2012	170	989
	5/16/2013	265	1,400
	4/1/2014		P&A
MW026	5/12/2011	458	2,560
	11/8/2011	521	1,950
	11/8/2011	524	2,200
	5/17/2012	576 J	2,170
	10/29/2012	568	2,000
	5/20/2013	485	2,110
DUP	11/5/2013	544	3,020
	11/5/2013	528	2,850
	5/9/2014	427	2,050
	11/5/2014	572	2,760
MW027	5/12/2011	413	1,390
	11/7/2011	331	1,420
	5/17/2012	261 J	1,500
	10/30/2012	288	1,610
	5/20/2013	92	1,170
	11/5/2013	250	1,470
	5/9/2014	275	1,420
	11/5/2014	386	1,840
MW028	5/12/2011	399	1,510
	11/8/2011	372	1,460
	11/2/2012	339	1,380
	5/20/2013	224	1,240
	4/1/2014		P&A
MW029	5/11/2011	98	630
	11/8/2011	136	792
	11/8/2011	138	816
	5/24/2012	141	713
	11/1/2012	139	370
	5/14/2013	141	546
	4/1/2014		P&A
MW030	5/12/2011	164	748
	11/8/2011	105	788
	5/24/2012	75	614
	11/1/2012	147	628
	5/14/2013	127	696
	10/31/2013	315	1,080
	5/12/2014	154	633
	11/6/2014	92	446
MW030P	5/9/2014	264	2,920

TABLE 7
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
MW031	5/12/2011	75	702
	11/8/2011	97	918
	5/24/2012	103	826
	10/31/2012	107	684
	5/14/2013	106	802
	10/31/2013	98	761
	5/12/2014	106	780
	11/6/2014	97	1,160
MW032	5/12/2011	185	988
	11/8/2011	250	806
	5/24/2012	238	1,270
	10/30/2012	231	1,140
	5/20/2013	226	959
	11/6/2013	212	1,110
	5/12/2014	299	1,310
	11/5/2014	221	1,150
MW033	5/12/2011	547	1,430
	11/7/2011	514	1,730
	5/17/2012	430 J	1,770
	11/6/2012	536	1,480
	5/20/2013	447	1,450
	10/28/2013		P&A
MW034	5/12/2011	322	1,330
	5/8/2012	473	2,050
	5/16/2014	533	2,000
MW035 DUP	5/11/2011	17	516
	5/25/2012	188	1,120
	5/22/2013	157	1,100
	5/22/2013	162	1,140
	3/31/2014		P&A
MW036	5/16/2011	78	852
	5/25/2012	89	772
	5/22/2013	52	795
	5/27/2014	199	1,000
MW037 DUP	5/17/2011	1,080	2,100
	5/17/2011	1,000	2,020
	5/25/2012	1,220	2,700
	5/15/2013	343	1540
	5/23/2014	679	2,120

TABLE 7
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
MW038	5/11/2011	108	888
	5/24/2012	266	1,510
	5/23/2013	147	1020
	11/6/2013	296	1650
	11/6/2013	287	1650
DUP	5/6/2014	144	1,190
MW043	5/12/2011	95	1,020
	5/23/2012	193	1,140
	5/13/2013	158	1150
	5/13/2014	401	1,600
MW044	5/12/2011	42	510
	5/13/2013	420	1,560
	5/20/2014	668	1,910
MW045	5/16/2011	158	1,250
	5/23/2012	149	1,210
	5/22/2013	134	1190
	5/22/2014	168 J	1,130
MW046	5/16/2011	484	1,640
	5/23/2012	394	1,570
	5/21/2013	307	1440
	5/23/2014	177	1,290
MW047	5/16/2011	633	2,380
	5/23/2012	620	2,260
	5/20/2013	248	1770
	5/27/2014	285	1,730
MW058	5/13/2011	857	3,310
	11/10/2011	223	922
	5/24/2012	219	911
	5/24/2012	221	885
	11/6/2012	992	4,160
	11/6/2012	1,020	4,140
	5/14/2013	967	3790
	10/31/2013	1070	4370
	5/13/2014	175	909
	11/6/2014	157	781
	11/6/2014	85	921
MW059	5/16/2011	114	610
	11/8/2011	127	454
	5/24/2012	254	1,030
	11/2/2012	839	3,620
	5/21/2013	428	2120
	10/31/2013	404	543
	5/13/2014	133	661
	11/10/2014	110	653

TABLE 7
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
MW060	5/16/2011	1,510	4,310
	11/7/2011	944	2,900
	5/24/2012	758	2,750
	10/31/2012	1,030	3,210
	5/15/2013	1140	4310
	10/31/2013	984	4040
	5/12/2014	1,440	2,760
	11/6/2014	1,270	4,520
MW061	5/13/2011	287	1,710
	11/8/2011	312	1,960
	5/25/2012	330	1,600
	11/2/2012	823	3,800
	5/15/2013	554	2550
	11/1/2013	267	1710
	5/13/2014	272	1,570
	5/13/2014	273	1,900
DUP	11/7/2014	213	1,560 J
MW068 DUP	5/13/2011	114	732
	5/13/2011	113	704
	11/7/2011	119	526
	5/25/2012	114	880
	10/31/2012	121	784
	5/15/2013	120	820
	11/6/2013	111	899
	5/12/2014	124	798
	11/5/2014	705	1,840
MW069	5/16/2011	1,070	2,390
	5/24/2012	986	3,960
	5/14/2013	877	2190
	5/13/2014	817	1,460
MW070	5/13/2011	216	862
	11/9/2011	199	680
	5/23/2012	212	939
	11/6/2012	201	790
	5/14/2013	192	821
	10/30/2013	167	829
	10/30/2013	167	805
	5/8/2014	172	737
	11/10/2014	162	825
DUP			

TABLE 7
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
SHALLOW WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard²		250	1,000
MW094 DUP	11/17/2011	130	6,620
	5/25/2012	147	1,170
	10/31/2012	161	1,350
	5/15/2013	297	2400
	5/15/2013	299	2280
	11/1/2013	226	2030
	5/9/2014	138	1,110
	11/5/2014	126	980
MW095 DUP	11/17/2011	1,070	1,110
	5/25/2012	1,290	4,590
	5/25/2012	1,300	4,540
	10/31/2012	1,360	4,330
	5/15/2013	1510	4630
	11/6/2013	1150	3940
	5/9/2014	1,290	4,340
	11/6/2014	1,330	4,950
MW088M	5/11/2011	743	7,220
	5/22/2012	918	8,290
	5/21/2013	809	7040
	5/9/2014	826	6,000
MW096P	5/7/2014	197	897
MW097P	5/7/2014	535	2,110
IW001	5/17/2011	1,030	4,440
	5/25/2012	950	5,330
	5/21/2013	963	5700
	5/8/2014	1,020	5,250
IW002	5/17/2011	513	3,710
	11/9/2011	523	3,940
	5/25/2012	547	4,430
	5/22/2013	534	3880
	5/28/2014	582	3,850
RW002	5/17/2011	1,070	3,820
	5/22/2012	1,060	4,420
	5/20/2013	994	3320
	3/31/2014		P&A
RW003	5/17/2011	534	2,460
	5/21/2012	584	2,550
	5/22/2013	550	2270
	5/28/2014	474	1,970

Notes:

Chloride analysed by EPA Methods 300.0E.

Total Dissolved Solids (TDS) analysed by SM 2540C.

New Mexico Water Quality Control Commission

(NMWQCC) Standards 20.6.2.3103.B.

mg/L (ppm) - milligrams per liter (parts per million).

NG - Not Gauged

P&A - Plugged and Abandoned

Bold indicates that a COC was detected.

Shading indicates that a detected result exceeded the NMWQCC Standard.

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard²		250	1,000
mg/L			
<i>Deep Monitor Wells</i>			
MW002A	5/25/2011	310	1,020
	5/24/2012	337	1,260
	5/21/2013	346	1,180
	5/22/2014	341	1,090
MW004A	5/24/2011	246	1,170
	5/22/2012	620	2,520
	5/15/2013	326	1,300
	5/21/2014	606	2,630
MW007A	5/24/2011	313	1,700
	5/22/2012	357 J	1,870
	5/16/2013	344	1,600
	5/7/2014	374	1,580
MW008A	5/26/2011	820 J	5,740
	5/25/2012	912	5,880
	5/16/2013	793	4,850
	5/8/2014	808	4,060
MW009A DUP	5/25/2011	268	1,650
	5/25/2011	295	1,610
	5/22/2012	536 J	2,040
	5/15/2013	524	2,080
MW011A DUP	5/27/2014	497	1,890
	5/25/2011	1,440	4,850
	5/25/2011	1,610 J	4,990
	5/22/2012	1,350	4,720
MW012A	5/20/2013	1,250	4,540
	5/8/2014	1,260	3,090
MW012A	5/25/2011	94	468
	5/22/2012	97	576
	5/21/2013	89	503
	5/28/2014	91	562
MW013A DUP DUP	5/19/2011	70	458
	11/9/2011	69	466
	5/17/2012	76.0 J	575
	10/29/2012	69	554
	5/17/2013	68	460
	11/4/2013	60	512
	11/4/2013	63	511
	5/7/2014	69	432
	5/7/2014	66	575
	11/7/2014	65	598 J
MW014A	5/18/2011	18.9 J	200
	11/9/2011	18	134
	5/18/2012	56	518
	10/29/2012	50	624
	5/16/2013	46	440
	11/5/2013	31	313
	5/7/2014	49	449
	11/5/2014	12	129
MW015A	5/18/2011	880 J	1,880
	11/9/2011	753	1,390
	5/17/2012	2,730 J	6,170

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
DUP	10/29/2012	2,190	5,050
	5/16/2013	1,410	3,400
	11/5/2013	205 J	1,230 J
	11/5/2013	1,700 J	4,020 J
	5/6/2014	3,410	10,500
	11/10/2014	892	2,550
MW016A	5/17/2011	244	756
	11/9/2011	342	1,110
	5/17/2012	256 J	889
	10/26/2012	542	1,190
	5/16/2013	250	909
	11/5/2013	541	1,790
	5/6/2014	590	1,820
	11/13/2014	262	1,010
MW017A	5/6/2011	Plugged and Abandoned	
MW018A	5/24/2011	15	172
	11/9/2011	209	1,980
	5/21/2012	219	1,180
	10/26/2012	222	997
	5/13/2013	23	219
	4/1/2014		P&A
MW019A	5/17/2011	302	1,030
	11/9/2011	263	704
	5/21/2012	354	1,190
	10/26/2012	335	1,170
	5/13/2013	266	1,070
	11/5/2013	295	1,240
	5/6/2014	281	1,230
	11/4/2014	222	1,020

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
MW020A	5/16/2011	1,180	2,630
	11/9/2011	367	1,310
	5/17/2012	402 J	1,180
	10/26/2012	1,040	2,470
	5/13/2013	958	2,320
	11/4/2013	960	3,090
	5/6/2014	951	3,140
	11/4/2014	441	1,680
MW021A DUP	5/23/2011	2,540	6,520
	11/17/2011	2,380	6,500 J
	11/17/2011	2,500	3,700 J
	5/17/2012	3,000 J	7,000
	11/8/2012	75	1,040
	11/1/2013	2,760	6,560
	5/16/2014	740	9,270
	11/13/2014	2,280	5,570
MW022A DUP	5/25/2011	57	432
	5/25/2011	60	414
	11/17/2011	56	446
	5/23/2012	63	428
	11/9/2012	63	376
	5/21/2013	60	412
	6/1/2013		P&A
MW023A DUP	5/18/2011	49.7 J	486
	11/10/2011	23	466
	5/24/2012	47	595
	10/30/2012	47	525
	5/20/2013	45	473
	5/20/2013	47	494
	10/31/2013	46	1,980
	5/8/2014	54	486 J
	11/7/2014	50	688 J
MW024A DUP	5/18/2011	281 J	792
	11/10/2011	283	598
	5/18/2012	669	2,190
	10/30/2012	661	1,520
	5/13/2013	483	1,270
	10/30/2013	278	956
	5/8/2014	804	2,480
	5/8/2014	777	2,510
	11/7/2014	279	1,120 J

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard²		250	1,000
MW039A DUP	5/26/2011	169 J	832
	5/25/2012	202	952
	5/25/2012	194	976
	5/21/2013	186	1,030
	5/27/2014	202	927
MW040A	5/19/2011	47	442
	11/9/2011	49	496
	5/17/2012	57.6 J	586
	10/29/2012	50	510
	5/17/2013	50	448
	11/4/2013	48	488
	5/7/2014	52	423
	11/10/2014	53	575
MW041A	5/24/2011	274	1,440
	5/8/2012	357	1,580
	5/16/2014	442	1,810
	5/16/2014	445	1,810
MW042A DUP	5/25/2011	433	1,030
	5/25/2011	454 J	1,120
	5/25/2012	479	1,070
	5/22/2013	427	1,270
	5/22/2014	418	1,160
MW046A DUP	5/25/2011	291	1,290
	5/25/2011	267	1,350
	5/23/2012	337	1,420
	5/22/2013	323	1,460
	5/22/2014	333	1,430
	5/22/2014	334 J	1,400
MW048SA DUP DUP	5/24/2011	478	1,860
	11/16/2011	490	2,270
	5/16/2012	616 J	2,250
	11/8/2012	610	2,070
	11/8/2012	624	1,980
	5/8/2013	613	2,370
	11/4/2013	545	2,390
	5/15/2014	595	2,350
	5/15/2014	600	2,220
	11/14/2014	560	2,500
MW049SA	5/23/2011	1,530	3,460
	5/17/2012	1,800 J	4,480
	5/8/2013	1,410	3,620
	5/15/2014	1,320	3,360
MW050SA	5/23/2011	1,020	3,210
	5/17/2012	1,030 J	2,950
	5/8/2013	1,300	3,640
	5/16/2014	1,360	4,030
MW051SA DUP	5/23/2011	1,100	3,880
	5/16/2012	1,260 J	3,970
	5/16/2012	1,250	4,180
	5/8/2013	1,060	3,540
	5/8/2013	966	3,530

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
	5/15/2014	1,090	3,530
MW052SA	5/23/2011	1,090	3,320
	5/16/2012	1,300 J	4,600
	5/8/2013	1,410	3,650
	5/15/2014	1,390	3,840
MW053SA	5/24/2011	225	1,070
	11/16/2011	242	1,040
	5/16/2012	269 J	1,210
	11/9/2012	314	1,090
	5/8/2013	308	1,240
	11/4/2013	314	1,320
	5/15/2014	351	1,280
	11/14/2014	310	1,330
MW054SA	5/24/2011	715	1,710
	11/16/2011	692	2,500
	5/16/2012	803 J	2,340
	11/7/2012	814	2,400
	11/7/2012	816	1,860
	5/8/2013	752	2,360
	11/4/2013	726	2,540
	5/15/2014	855	2,330
DUP	11/14/2014	773	2,900
	11/14/2014	755	2,870
MW055SA	5/24/2011	475	1,700
	11/16/2011	533	2,370
	5/16/2012	614 J	2,200
	5/16/2012	611 J	2,220
	11/7/2012	620	1,690
	11/7/2012	613	1,930
	5/7/2013	595	2,100
	10/31/2013	565	1,920
	5/14/2014	602 J	2,480
	11/12/2014	557	2,010

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
MW056SA DUP DUP	5/17/2011	1,730	3,750
	11/17/2011	1,230	3,580
	5/16/2012	1,390 J	4,060
	5/16/2012	1,430 J	4,000
	11/8/2012	1,380	3,770
	5/8/2013	1,300	3,570
	11/4/2013	1,140	3,660
	11/4/2013	1,150	3,620
	5/15/2014	1,320	3,550
	11/13/2014	1,120	3,820
MW057SA	5/17/2011	331	1,470
	11/10/2011	230	1,160
	5/17/2012	181 J	1,110
	10/31/2012	218	1,180
	5/8/2013	260	1,330
	5/14/2014	61.9 J	565
	11/11/2014	78	722
MW062A DUP	5/19/2011	69	446
	11/10/2011	65	930 J
	11/10/2011	60	550 J
	5/23/2012	59	569
	10/31/2012	65	516
	5/14/2013	60	502
	10/30/2013	56	478
	5/13/2014	70	604
	11/10/2014	60	476
MW063A DUP	5/19/2011	56	438
	11/10/2011	56	384
	5/18/2012	58	430
	10/31/2012	53	459
	5/13/2013	53	456
	10/30/2013	50	469
	5/13/2014	51	537
	11/10/2014	53	463
	11/10/2014	54	489
MW064SA	5/10/2011	577	2,240
	11/10/2011	643	2,310
	5/11/2012	689 J	2,600
	10/30/2012	737	3,020
	5/6/2013	730	2,610
	4/1/2014		P&A

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard²		250	1,000
MW065SA	5/19/2011	1,250	2,590
	11/14/2011	865	3,210
Dup	5/9/2012	1,060	3,720
	5/9/2012	1,050	3,680
Dup	11/1/2012	1,090	3,180
	11/1/2012	1,070	3,320
	5/7/2013	1,020	2,750
	10/31/2013	1,020	3,670
	5/14/2014	1,050 J	3,290
	11/12/2014	939	3,190
MW066SA	5/18/2011	1,270 J	3,020
	11/14/2011	910	3,360
	5/15/2012	1,150 J	3,630
	11/2/2012	1,190	3,150
DUP	5/7/2013	1,300	3,230
	5/7/2013	1,290	3,470
	10/31/2013	1,290	3,580
	5/15/2014	1,410	4,100
	11/12/2014	1,250	3,990
MW067SA	5/19/2011	167	978
	11/15/2011	152	852
	5/16/2012	178 J	1,000
	11/2/2012	179	993
	5/8/2013	164	988
	11/1/2013	157	981
	5/15/2014	158	942
	11/13/2014	214	994
MW070A	5/18/2011	47.9 J	498
	5/23/2012	45	480
	5/14/2013	47	541
	5/8/2014	53	462
MW071SA	5/18/2011	124 J	674
	11/14/2011	94	594
	5/8/2012	109	749
	11/1/2012	111	732
	5/7/2013	119	718
	10/30/2013	103	738
	5/16/2014	121	758
	11/12/2014	103	725

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard²		250	1,000
MW072SA	5/24/2011	172	714
	11/14/2011	247	890
	5/15/2012	332 J	1,130
	11/2/2012	375	1,290
	5/8/2013	302	1,380
	10/31/2013	320	1,450
	5/15/2014	337	1,250
	11/12/2014	232	1,090
MW073SA	5/19/2011	285	1,100
	11/14/2011	226	1,080
	5/15/2012	245 J	1,150
	11/2/2012	234	1,020
	5/8/2013	225	1,070
	5/16/2014	295	1,080
	11/12/2014	299	1,140
	11/12/2014	297	1,140
MW074SA	5/18/2011	660 J	2,180
	11/10/2011	555	3,530
	5/16/2012	596 J	2,210
	10/31/2012	584	1,790
	5/7/2013	542	2,100
	10/31/2013	500	2,070
	5/14/2014	596 J	2,150
	11/11/2014	450	2,100
MW075SA	5/10/2011	447	1,830
	11/11/2011	529	2,090
	5/9/2012	531	2,370
	10/30/2012	535	2,260
	5/6/2013	529	2,120
	10/30/2013	405	2,120
	5/14/2014	444 J	2,090
	11/11/2014	400	2,050
MW076SA	5/10/2011	465	1,760
	11/11/2011	457	2,050
	5/9/2012	432	2,220
	10/30/2012	426	1,970
	5/7/2013	394	1,930
	10/30/2013	358	2,100
	5/14/2014	397 J	1,940
	5/14/2014	413 J	2,080
DUP	11/11/2014	365	2,110

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
MW077SA	5/10/2011	541	2,060
	11/11/2011	632	2,290
	5/9/2012	536	1,740
	11/1/2012	718	1,930
	5/6/2013	416	1,380
	4/1/2014		P&A
MW078SA	5/19/2011	185	742
	11/15/2011	147	600
	5/16/2012	184 J	845
	11/2/2012	165	826
	5/8/2013	161	839
	11/4/2013	132	793
	5/15/2014	167	826
	11/13/2014	155	840
MW079SA	5/23/2011	266	1,230
	11/15/2011	240	1,170
	5/9/2012	327	1,310
	11/7/2012	348	1,320
	11/1/2013	338	1,360
	5/15/2014	329	1,440
	11/13/2014	365	1,430
MW080SA	5/19/2011	286	1,070
	11/15/2011	227	1,040
	5/9/2012	291	1,110
	11/7/2012	295	1,100
	3/31/2014		P&A
MW081SA	5/19/2011	569	1,560
	11/15/2011	361	1,370
	5/9/2012	457	1,920
	11/7/2012	565	1,490
	5/8/2013	567	2,000
	3/31/2014		P&A
MW082SA	5/10/2011	641	2,440
	11/10/2011	738	3,090
	5/11/2012	758 J	2,690
	10/30/2012	880	2,930
	5/6/2013	1,370	3,940
	4/1/2014		P&A

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard²		250	1,000
MW083SA	5/9/2011	762	2,880
	11/10/2011	1,050	3,080
	5/11/2012	1,160 J	3,460
	10/31/2012	1,160	3,450
	5/6/2013	1,550	3,700
	10/31/2013	729	2,870
	5/14/2014	1,060 J	3,430
	11/11/2014	709	2,830
MW084SA	5/10/2011	946	2,860
	11/10/2011	1,170	3,500
	5/11/2012	1,180 J	3,540
	10/30/2012	1,190	3,350
	5/6/2013	1,010	3,150
	10/30/2013	1,060	3,030
	5/14/2014	1,070 J	3,070
	11/11/2014	975	3,100
MW085SA	5/9/2011	877	2,860
	11/10/2011	634	3,220
	5/11/2012	646 J	2,400
	10/31/2012	713	2,760
	5/6/2013	594	2,560
	10/31/2013	661	2,770
	5/14/2014	812 J	2,880
	11/11/2014	596	2,670
MW086SA	5/19/2011	822	1,610
	11/14/2011	421	1,070
	5/8/2012	679	2,010
	11/1/2012	831	2,130
	5/7/2013	851	1,970
	10/30/2013	656	2,190
	5/14/2014	605 J	2,090
	11/12/2014	514	1,660
MW087A	5/26/2011	1,170 J	3,160
	5/25/2012	1,170	3,860
	5/16/2013	1,120	2,450
	5/8/2014	1,070	4,290
MW089SA	5/24/2011	781	3,470
	5/22/2012	119	1,060
	5/22/2012	122	1,010
	5/15/2013	102	831
	5/27/2014	170	1,150
	5/27/2014	169	1,150

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard²		250	1,000
MW090SA DUP	5/25/2011	378	1,830
	5/25/2011	369	1,770
	5/23/2012	297	1,450
	5/22/2014	281	1,950
MW091SA	5/24/2011	105	850
	5/8/2012	187	1,200
	5/21/2014	422	1,780
MW092SA	5/23/2011	187	1,330
	5/11/2012	184 J	1,160
	5/14/2013	166	1,150
	3/31/2014		P&A
MW093SA DUP	5/23/2011	186	1,180
	5/11/2012	244 J	1,050
	5/10/2013	656	2,800
	5/10/2013	696	2,900
	5/21/2014	485	1,360
IW003	5/20/2011	987	3,560
	5/11/2012	995 J	4,020
	5/20/2014	1,070	3,640
IW004	5/20/2011	1,360	3,600
	5/11/2012	1,190 J	4,390
	5/20/2014	972	3,160
IW005	5/20/2011	1,020	3,820
	5/11/2012	990 J	3,920
	5/7/2013	860	2,990
	5/16/2014	850	2,830
IW006	5/20/2011	866	3,020
	5/11/2012	835 J	3,530
	5/7/2013	798	2,920
	5/16/2014	794	2,790
IW007	5/19/2011	953	3,830
	5/15/2012	884 J	4,200
	5/7/2013	861	4,050
	5/29/2014	835	4,490
IW008	5/20/2011	566	2,380
	5/15/2012	566 J	2,430
	5/7/2013	529	2,340
	5/20/2014	530	2,550
	5/20/2014	530	2,250

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard ² mg/L		250	1,000
IW009	5/20/2011	878	14,300
	5/20/2014	709	4,350
IW010	5/20/2011	1,080	3,150
	5/15/2012	1,090 J	3,960
	5/7/2013	1,040	3,350
	5/19/2014	1,030	3,310
IW011	5/20/2011	972	2,960
	5/15/2012	986 J	3,380
	5/7/2013	1,000	3,390
	5/19/2014	970	3,200
IW012	5/20/2011	971	3,760
IW013	5/20/2011	1,020	3,140
	5/15/2012	1,060 J	3,780
	5/13/2013	1,030	3,120
	5/19/2014	1,100	2,990
IW014 Dup	5/20/2011	1,210	3,640
	5/15/2012	1,150 J	3,640
	5/15/2012	1,140 J	3,520
	5/6/2013	1,080	3,190
IW015	5/20/2011	1,030	3,090
	5/11/2012	1,000 J	3,280
	5/20/2014	1,030	2,760
IW016	5/20/2011	455	1,920
	5/9/2012	406	1,490
	5/20/2014	478	1,660
IW018	5/23/2011	60	804
	5/11/2012	66.7 J	792
	5/10/2013	932	3,520
	5/20/2014	532	1,640
IW019	5/23/2011	54	482
	5/11/2012	69.0 J	684
	5/10/2013	386	1,390
	5/20/2014	484	1,580
IW020	5/23/2011	95	848
	5/17/2012	98.8 J	783
	5/10/2013	408	2,000
	3/31/2014		P&A

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard²		250	1,000
IW021	5/23/2011	194	1,450
	5/17/2012	206 J	1,210
	5/13/2013	266	1,550
	5/21/2014	545	2,270
IW022	5/24/2011	124	1,120
	5/17/2012	216 J	1,170
	5/13/2013	375	1,500
	5/21/2014	454	2,220
IW023	5/24/2011	530	2,230
	5/18/2012	536	1,950
	5/13/2013	537	1,680
	5/21/2014	586	2,190
DUP	5/21/2014	588	2,470
IW024	5/24/2011	538	2,580
	5/24/2012	608	3,050
	5/14/2013	443	2,230
	5/22/2014	724	3,190
IW025	5/24/2011		Not Sampled - Well Silted In
	5/24/2012	501	2,930
	5/14/2013	531	2,490
	5/22/2014	680	2,730
IW026	5/24/2011		Not Sampled - Well Silted In
	5/23/2012	513	1,650
	5/14/2013	484	1,730
	5/22/2014	593	2,750
IW027	5/24/2011	274	1,910
	5/23/2012	344	2,280
	5/14/2013	98	1,030
	5/22/2014	167	1,660
IW028	5/23/2011	294	1,860
	5/22/2012	200	1,660
	5/22/2012	202	1,340
	5/15/2013	140	1,300
IW029P	5/22/2014	201	1,350
	5/7/2014	922	6,860

TABLE 8
SUMMARY OF GROUNDWATER ANALYTICAL DATA - CHLORIDE AND TDS
DEEP WELLS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Collection Date	Chloride (mg/L)	Total dissolved solids (TDS) (mg/L)
NMWQCC Standard²		250	1,000
RW004A DUP	5/25/2011	685	15,700
	5/25/2011	757	16,100
	5/25/2012	480	3,900
	5/20/2013	462	3,780
	5/8/2014	541	4,180
Water Wells			
EPWW1	5/18/2011	61.1 J	344
	5/21/2012	805	3,080
GOPWW2	5/25/2011	1,490	2,560
	11/17/2011	1,310	2,970
	5/8/2012	1,470	1,920
	11/1/2012	1,420	2,930
	5/23/2013	1,350	3,070
LordWW	5/26/2011	1,550 J	3,550
	11/10/2011	1,580	4,380
	5/18/2012	1,670	4,670
	10/26/2012	1,540	3,270
	5/23/2013	1,430	3,330
	11/5/2013	1,320	2,600
	5/9/2014	1,640	2,400
	11/10/2014	1,870	2,780
RolandWW DUP	5/25/2011	344	858
	5/25/2011	432 J	802
WoodellWW DUP	5/25/2011	521	1,880
	5/25/2011	512	1,740
	5/16/2012	579 J	2,500
	10/31/2012	582	1,940
	5/22/2013	634	2,240
	10/31/2013	775	2,820
	5/29/2014	580	2,400
	11/14/2014	558	2,120

Notes:

Chloride analysed by EPA Methods 300.0E.
Total Dissolved Solids (TDS) analysed by SM 2540C.
New Mexico Water Quality Control Commission
(NMWQCC) Standards 20.6.2.3103.B.
mg/L (ppm) - milligrams per liter (parts per million).
NG - Not Gauged
P&A - Plugged and Abandoned
Bold indicates that a COC was detected.
Shading indicates that a detected result exceeded
the NMWQCC Standard.

TABLE 9
SUMMARY OF LNAPL RECOVERY
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
EUNICE NORTH GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date	LNAPL Recovered (gallons)	Water Recovered (gallons)	Total Fluids Recovered (gallons)
MW-005	2004-2008	Recovery performed, volume unreported		
MW-006	2004-2008 2014	22.0	0.0	22.0
	TOTALS (2014)	22.0	0.0	22.0

Notes:

1. LNAPL - Light non-aqueous phase liquid.
2. LNAPL recovery from MW-005 and MW-006 reported by Stantec in 2004-2008, recovered LNAPL or water volumes not reported.
3. Manual LNAPL recovery resumed at well MW-006 on 9/2/14.

Appendices

Appendix A

NMOCD Discharge Permit GW-004

DISCHARGE PERMIT GW-004

1. GENERAL PROVISIONS:

A. PERMITTEE AND PERMITTED FACILITY: The Oil Conservation Division (OCD) of the Energy, Minerals and Natural Resources Department issues Discharge Permit GW-004 (Discharge Permit) to Chevron U.S.A., Inc. (Owner/Operator), located at 1400 Smith Street, Houston, Texas 77002 to abate ground water and vadose zone contamination at its Eunice North Gas Plant (Facility) located at State Highway 207 (Eunice-Hobbs Highway) Eunice, New Mexico 88231 in the NE/4 of the SE/4 of Section 28, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.

As a result of historical operations at the site, Chevron is proposing to remediate chromium contaminated ground water by injecting 5 percent solution of sodium dithionite and/or a 10 percent soy lactate solution in injection wells to remediate contaminated ground water. Chevron will mix 2800 gallons fresh water with a five percent solution of sodium dithionite and/or mix 2800 gallons fresh water with ten percent soy lactate solution to generate a solution which will then be discharged into the Ogallala aquifer. The ground water will be sampled to determine the effectiveness of the discharged solution to remediate the chromium contamination. The depth to ground water in the Ogallala aquifer is 37 to 73 feet below the surface and the background total dissolved solids concentration is approximately 1,200 mg/L. The discharge plan specifies that Chevron will remediate contaminated ground at the site to meet the standards specified in the Water Quality Control Commission regulations (20.6.2.3103 NMAC).

B. SCOPE OF PERMIT: OCD has been granted authority to administer the Water Quality Act (Chapter 74, Article 6 NMSA 1978) as it applies to gas processing plants by statute and by delegation from the Water Quality Control Commission pursuant to Section 74-6-4(E) NMSA 1978.

The Water Quality Act and the rules issued under that Act protect ground water and surface water of the State of New Mexico by providing that, unless otherwise allowed by rule, no person shall cause or allow effluent or leachate to discharge so that it may move directly or indirectly into ground water unless such discharge is pursuant to an approved discharge plan. See 20.6.2.3104 NMAC and 20.6.2.3106 NMAC.

This Discharge Permit does not authorize any treatment of, or on-site disposal of, any materials, product, by-product, or oil field waste, including, but not limited to, the on-site disposal of lube oil, glycol, antifreeze, filters, elemental sulfur, washdown water, contaminated soil, and cooling tower blowdown water.

This Discharge Permit does not convey any property rights of any sort nor any exclusive privilege, and does not authorize any injury to persons or property, any invasion of other private rights, or any infringement of state, federal, or local laws, rules or regulations.

The Owner/Operator shall operate in accordance with the Discharge Permit conditions to comply with the Water Quality Act and the rules issued pursuant to that Act, so that neither a hazard to public health nor undue risk to property will result (see 20.6.2.3109C NMAC); so that no discharge will cause or may cause any stream standard to be violated (see 20.6.2.3109H(2) NMAC); so that no discharge of any water contaminant will result in a hazard to public health, (see 20.6.2.3109H(3) NMAC); and so that the numerical standards specified of 20.6.2.3103 NMAC are not exceeded.

The Owner/Operator shall not allow or cause water pollution, discharge, or release of any water contaminant that exceeds the Water Quality Control Commission (WQCC) standards specified at 20.6.2.3101 NMAC and 20.6.2.3103 NMAC or 20.6.4 NMAC (Water Quality Standards for Interstate and Intrastate Streams).

C. DISCHARGE PERMIT CONDITIONS: By signing this Discharge Permit, the Owner/Operator agrees to the specific provisions set out in this document, and the commitments made in the approved Discharge Plan Application and the attachments to that application, which are incorporated into the Discharge Permit by reference.

If this Discharge Permit is a permit renewal, it replaces the permit being renewed. Replacement of a prior permit does not relieve the Owner/Operator of its responsibility to comply with the terms of that prior permit while that permit was in effect.

D. DEFINITIONS: Terms not specifically defined in this Discharge Permit shall have the same meanings as those in the Water Quality Act or the rules adopted pursuant to that Act, as the context requires.

E. FILING FEES AND PERMIT FEES: Pursuant to 20.6.2.3114 NMAC, every facility that submits a discharge permit application for initial approval or renewal shall pay the permit fees specified in Table 1 and the filing fee specified in Table 2 of 20.6.2.3114 NMAC. OCD has already received the required \$100.00 filing fee for this application. The flat fee for "Abatement of Ground Water and Vadose Zone Contamination at Oil and Gas Sites" is \$2,600.00. The Owner/Operator shall submit this amount along with the signed Discharge Permit. Checks should be payable to the "New Mexico Water Quality Management Fund," not the Oil Conservation Division.

F. EFFECTIVE DATE, EXPIRATION, RENEWAL CONDITIONS, AND PENALTIES FOR OPERATING WITHOUT A DISCHARGE PERMIT: This Discharge Permit is effective when the Division's Environmental Bureau receives the signed Discharge Permit from the Owner/Operator and the \$2,600.00 fee. This Discharge Permit will expire on March 16, 2016. The Owner/Operator shall submit an application for renewal no later than 120 calendar days before that expiration date, pursuant to 20.6.2.3106F NMAC. If an Owner/Operator submits a renewal application at least 120 calendar days before the Discharge Permit expires and is in compliance with the approved Discharge Permit, then the existing Discharge Permit will not expire until OCD has approved or disapproved the renewal application. Operating with an expired Discharge Permit may subject the Owner/Operator to

civil and/or criminal penalties. See Section 74-6-10.1 NMSA 1978 and Section 74-6-10.2 NMSA 1978.

G. MODIFICATIONS: The Owner/Operator shall notify the Division's Environmental Bureau of any facility expansion, production increase, or process modification that would result in any significant modification in the discharge of water contaminants. See 20.6.2.3107C NMAC. The Division's Environmental Bureau may require the Owner/Operator to submit a permit modification pursuant to 20.6.2.3109E NMAC and may modify or terminate a permit pursuant to Section 74-6-5(M) through (N) NMSA 1978.

H. TRANSFER OF DISCHARGE PERMIT: Prior to any transfer of ownership, control, or possession (whether by lease, conveyance or otherwise) of the Facility, the transferor shall notify the transferee in writing of the existence of the Discharge Permit, and shall deliver or send by certified mail to the Division's Environmental Bureau a copy of such written notification, together with a certification or other proof that such notification has been received by the transferee pursuant to 20.6.2.3111 NMAC. Upon receipt of such notification, the transferee shall inquire into all of the provisions and requirements contained in the Discharge Permit, and the transferee shall be charged with notice of all such provisions and requirements as they appear of record in the Division's file or files concerning the Discharge Permit. Upon assuming either ownership or possession of the Facility the transferee shall have the same rights and responsibilities under the Discharge Permit as were applicable to the transferor. See 20.6.2.3111 NMAC.

Transfer of the ownership, control, or possession of the Facility does not relieve the transferor of responsibility or liability for any act or omission which occurred while the transferor owned, controlled, or was in possession of the Facility. See 20.6.2.3111E NMAC.

I. CLOSURE PLAN AND FINANCIAL ASSURANCE: The Owner/Operator shall notify the Division's Environmental Bureau in writing when any operations of its Facility are to be discontinued for a period in excess of six months. Upon review of the Owner/Operator's notice, the Division's Environmental Bureau will determine whether to modify this permit pursuant to 20.6.2.3107 NMAC and 20.6.2.3109E NMAC or to require the Owner/Operator to submit a closure plan and/or post-closure plan, including financial assurance.

J. COMPLIANCE AND ENFORCEMENT: If the Owner/Operator violates or is violating a condition of this Discharge Permit, the Division's Environmental Bureau may issue a compliance order requiring compliance immediately or within a specified time period, suspending or terminating this Discharge Permit, and/or assessing a civil penalty. See Section 74-6-10 NMSA 1978. The Division's Environmental Bureau may also commence a civil action in district court for appropriate relief, including injunctive relief. See Section 74-6-10(A)(2) NMSA 1978 and Section 74-6-11 NMSA 1978. The Owner/Operator may be subject to criminal penalties for discharging a water contaminant without a discharge permit or in violation of a condition of a discharge permit; making any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or required to be maintained under the Water Quality Act; falsifying, tampering with

or rendering inaccurate any monitoring device, method or record required to be maintained under the Water Quality Act; or failing to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation. See Section 74-6-10.2 NMSA 1978.

2. GENERAL FACILITY OPERATIONS:

A. OPERATIONAL MONITORING: The Owner/Operator shall comply with its approved monitoring programs pursuant 20.6.2.3107 NMAC.

1. Ground Water Monitoring System: The Owner/Operator shall monitor and sample all ground water monitor wells in accordance with its approved ground water abatement program, including the monitor wells for the hydrocarbon plume, the chloride plume, and the chromium plume.

2. Installation of Monitor Wells Near Injection Wells IW023 and IW024:

a. The Owner/Operator shall install three monitor wells near Injection Well IW023 and three monitor wells near Injection Well IW024 in accordance with its renewal application of December 6, 2010.

b. The Owner/Operator shall monitor the near monitor wells to determine whether it has achieved its primary objectives as specified in its renewal application of December 6, 2010.

3. Dithionite Injection Pilot Study Monitoring

a. Field Monitoring: During the injection, the Owner/Operator shall monitor the three monitoring wells hourly for pH, DO, ORP, conductivity, and temperature.

b. Post-Injection Monitoring and Sampling: The Owner/Operator shall sample the three monitor wells and IW023 monthly for 3 months after the injection, using the injection and monitoring wells, to evaluate the effectiveness of the sodium dithionite treatment. Ground water samples will be collected and analyzed for total and hexavalent chromium, bromide, sulfate, sulfide, total organic carbon, sodium, total and dissolved iron, and field parameters (pH, temperature, conductivity, DO and ORP).

4. Biodegradation Pilot Study

a. Baseline Sampling: Prior to the injection of a soy-lactate solution, the Owner/Operator shall sample and analyze IW023 and the three monitoring wells for total and hexavalent chromium, sulfate, sulfide, ammonia-nitrogen, orthophosphate-phosphorus, total anaerobic microbial counts, total organic carbon, total and dissolved iron, and field parameters (pH, temperature, conductivity, DO, and ORP).

b. Field Monitoring: During the injection, the Owner/Operator shall monitor the three monitor wells hourly for pH, DO, ORP, conductivity, and temperature.

c. **Post -Injection Monitoring and Sampling:** The Owner/Operator shall sample the IW024 and the three monitoring wells to evaluate the treatment effectiveness. Ground water samples will be collected for successive quarters after the injection event and analyzed for total and hexavalent chromium, sulfate, sulfide, ammonia -nitrogen, orthophosphate - phosphorus, total anaerobic microbial counts, total organic carbon, total and dissolved iron, and field parameters (pH, temperature, conductivity, DO, and ORP).

B. CONTINGENCY PLANS: The Owner/Operator shall implement its approved Contingency Plans to cope with failure of the discharge permit or system in accordance with Permit Condition 2.F.

C. CLOSURE PLAN: After completing abatement of all ground water and vadose contamination required under Permit Condition 2.G, the Owner/Operator shall perform the following closure measures:

1. Remove or plug all lines leading to and from ground water recovery or injection wells so that a discharge can no longer occur.
2. Remove all abatement system components from the site, if applicable.
3. After receiving notification from the Division's Environmental Bureau that post-closure monitoring may cease, the Owner/Operator shall plug and abandon its monitor well(s).

D. RECORD KEEPING: The Owner/Operator shall maintain records of all inspections required by this Discharge Permit at its local office located at 240 Avenue O, Eunice, NM 88231 for a minimum of five years and shall make those records available for inspection by the Division's Environmental Bureau.

E. RELEASE REPORTING: The Owner/Operator shall comply with the following permit conditions, pursuant to 20.6.2.1203 NMAC, if it determines that a release of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, has occurred. The Owner/Operator shall report unauthorized releases of water contaminants in accordance with any additional commitments made in its approved Contingency Plan. If the Owner/Operator determines that any constituent exceeds the standards specified at 20.6.2.3103 NMAC, then it shall report a release to the Division's Environmental Bureau.

1. Oral Notification: As soon as possible after learning of such a discharge, but in no event more than twenty-four (24) hours thereafter, the Owner/Operator shall orally notify the Division's Environmental Bureau. The Owner/Operator shall provide the following:

- the name, address, and telephone number of the person or persons in charge of the facility, as well as of the Owner/Operator of the facility;
- the name and location of the facility;

- the date, time, location, and duration of the discharge;
- the source and cause of discharge;
- a description of the discharge, including its chemical composition;
- the estimated volume of the discharge; and,
- any actions taken to mitigate immediate damage from the discharge.

2. Written Notification: Within one week after the Owner/Operator has learned of the discharge, the Owner/Operator shall send written notification to the Division's Environmental Bureau verifying the prior oral notification as to each of the foregoing items and providing any appropriate additions or corrections to the information contained in the prior oral notification.

F. ABATEMENT PLAN: Pursuant to 20.6.2.4105A(6) NMAC, an Owner/Operator is exempt from the requirement to obtain and implement an Abatement Plan, as required in 20.6.2.4104 NMAC. However, an Owner/Operator's Discharge Permit must address abatement of contaminated ground water and be consistent with the requirements and provisions of Sections 20.6.2.4101, 20.6.2.4103, Subsections C and E of Section 20.6.2.4106, Sections 20.6.2.4107 and 20.6.2.4112 NMAC.

1. Purpose of Abatement Plan: The Owner/Operator shall abate polluted ground water so as to either remediate or protect the ground water for use as domestic and agricultural water supply.

2. Abatement Standards and Requirements: The Owner/Operator shall abate the vadose zone so that water contaminants in the vadose zone shall not contaminate ground water or surface water, through leaching, percolation or as the water table elevation fluctuates. The Owner/Operator, where the Total Dissolved Solids concentration is 10,000 mg/L or less, shall abate contaminated ground water so that toxic pollutant(s), as defined in 20.6.2.7WW NMAC, shall not be present and so that the standards of 20.6.2.3103 NMAC shall be met.

3. Ground Water Abatement: The Owner/Operator shall implement its approved ground water abatement program until it has remediated the contaminated ground water to meet the standards and requirements set forth in 20.6.2.4103 NMAC.

4. Completion and Termination: Pursuant to 20.6.2.4112 NMAC, abatement shall be considered complete when the standards and requirements specified in 20.6.2.4103 NMAC are met. At that time, the Owner/Operator shall submit an abatement completion report, documenting compliance with the standards and requirements set forth in 20.6.2.4103 NMAC and this Discharge Permit, to Division's Environmental Bureau for approval. The abatement completion report also shall propose any changes to long term monitoring and site maintenance activities, if needed, to be performed after termination of the abatement plan.

G. OTHER REQUIREMENTS:

1. Inspection and Entry: Pursuant to 20.6.2.4107A NMAC, the Owner/Operator shall allow the Division's Environmental Bureau, upon the presentation of proper credentials, to:

- enter the facility at reasonable times;
- inspect and copy records required by this discharge permit;
- inspect any treatment works, monitoring, and analytical equipment;
- sample any wastes, ground water, surface water, stream sediment, plants, animals, or vadose-zone material including vadose-zone vapor;
- use the Owner/Operator's monitoring systems and wells in order to collect samples; and
- gain access to off-site property not owned or controlled by the Owner/Operator, but accessible to the Owner/Operator through a third-party access agreement, provided that it is allowed by the agreement.

2. Advance Notice: Pursuant to 20.6.2.4107B NMAC, The Owner/Operator shall provide the Division's Environmental Bureau with at least four (4) working days advance notice of any sampling to be performed pursuant to this Discharge Permit, or any well plugging, abandonment or destruction at the facility site.

3. Plugging and Abandonment: Pursuant to 20.6.2.4107C NMAC, the Owner/Operator shall request by certified mail, approval by the Division's Environmental Bureau to plug and abandon a monitor well, unless such approval is required from the State Engineer. The proposed action shall be designed to prevent water pollution that could result from water contaminants migrating through the well or borehole. The proposed action shall not take place without written approval from the Division's Environmental Bureau, unless written approval or disapproval is not received by the Owner/Operator within thirty (30) days of the date of receipt of the proposal.

H. ANNUAL REPORT: The Owner/Operator shall submit its annual report for each calendar year pursuant to 20.6.2.3107 NMAC to the Division's Environmental Bureau by March 15th of the following year. The annual report shall include the following:

- 1. Results of its ground water monitoring program; including:**
 - summary tables listing laboratory analytic results of all ground water and soil samples. Any WQCC constituent found to exceed the groundwater standard shall be highlighted and noted in the annual report. Copies of the most recent year's laboratory analytical data sheets shall also be submitted.
 - annual water table potentiometric maps. A corrected water table elevation shall be determined for all wells containing non-aqueous phase liquids. These maps shall show well locations, pertinent site features, and the direction and magnitude of the hydraulic gradient.
 - semi-annual isopleth maps for the following constituents: non-aqueous phase liquids; chlorides; chromium; and, BTEX.

- semi-annual geologic cross-sections (both dip and strike), using the geologic/lithologic logs from the monitor, recovery, and injection wells, depicting the concentrations for the following constituents: non-aqueous phase liquids; chlorides; chromium; and, BTEX.
- estimate or measure of the volume of the solutions discharged during each quarter and the total volume discharged to date.

2. Summary of any releases and corrective actions taken in accordance with its approved Contingency Plan.

3. **CLASS V WELLS:** Pursuant to 20.6.2.5002B NMAC, leach fields and other wastewater disposal systems at Division-regulated facilities that inject non-hazardous fluid into or above an underground source of drinking water are UIC Class V injection wells, including ground water management wells. This Discharge Permit does not authorize the use of a Class V injection well for the disposal of industrial waste at the Facility. Pursuant to 20.6.2.5005 NMAC, the Owner/Operator shall close any Class V industrial waste injection wells at its Facility that inject non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes (*e.g.*, septic systems, leach fields, dry wells, *etc.*) other than the injection remediation wells within 90 calendar days of the issuance of this Discharge Permit. The Owner/Operator shall document the closure of any Class V wells used for the disposal of non-hazardous industrial wastes or a mixture of industrial wastes and domestic wastes other than contaminated ground water in its Annual Report.

Other Class V wells, including wells used only for the injection of domestic wastes, must be permitted by the New Mexico Environment Department.

4. **SCHEDULE OF COMPLIANCE:**

A. **PERMIT CERTIFICATION:** The Owner/Operator shall sign and return this Permit to the Division's Environmental Bureau within 45 days of its receipt of this Permit.

B. **SUBMISSION OF THE PERMIT FEES:** As specified in Permit Condition 1.F, the Owner/Operator shall submit the fee of \$2,600.00 along with the signed Discharge Permit within 45 days of the receipt of the Discharge Permit. Checks should be payable to the "New Mexico Water Quality Management Fund," not the Oil Conservation Division.

C. **ANNUAL REPORT:** As specified in Permit Condition 2.H, the Owner/Operator shall submit its annual report to the Division's Environmental Bureau by March 15th of the following year.

5. **CERTIFICATION: (OWNER/OPERATOR)** by the officer whose signature appears below, acknowledges receipt of this Discharge Permit, and has reviewed its terms and conditions.

Chevron U.S.A. Inc
Company Name - print name

Robert A. Guldner
Company Representative - print name


Company Representative - Signature

Title: Manager OE/WBS

Date: 01/23/2012

Appendix B

Historical Groundwater Tables

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
Shallow Zone Wells				
MW001	4/22/97	3428.57	52.34	3376.23
	12/18/97	3428.57	52.32	3376.25
	11/16/99	3428.57	*51.32	3377.25
	5/15/01	3428.57	50.33	3378.24
	8/23/01	3428.57	51.02	3377.55
	1/21/02	3428.57	50.64	3377.93
	4/4/02	3428.57	50.66	3377.91
	9/3/02	3428.57	50.44	3378.13
	12/2/02	3428.57	50.20	3378.37
	1/31/03	3428.57	50.36	3378.21
	3/28/03	3428.57	50.54	3378.03
	5/19/03	3428.57	50.36	3378.21
	9/9/03	3428.57	50.52	3378.05
	1/26/04	3428.57	50.73	3377.84
	3/30/04	3428.57	50.71	3377.86
	6/7/04	3428.57	50.76	3377.81
	9/17/04	3428.57	50.30	3378.27
	11/30/04	3428.57	49.90	3378.67
	3/31/05	3428.57	49.25	3379.32
	5/23/05	3428.57	49.15	3379.42
	1/17/06	3428.57	48.39	3380.18
	6/19/06	3428.57	48.02	3380.55
	4/19/07	3428.57	47.75	3380.82
	3/24/08	3428.57	47.83	3380.74
	3/11/09	NG	NG	NG
	3/1/10	3428.57	48.46	3380.11
	8/3/10	3428.57	48.51	3380.06
	5/6/11	3428.57	49.05	3379.52
	11/1/11	3428.57	48.47	3380.10
	5/3/12	3428.57	48.57	3380.00
	10/23/12	3428.57	48.75	3379.82
	5/2/13	3428.57	49.00	3379.57
	5/5/14	3428.57	49.07	3379.50
	11/3/14	3428.57	48.78	3379.79
MW002	4/22/97	3432.17	55.95	3376.22
	12/18/97	3432.17	55.62	3376.55
	11/16/99	3432.17	*54.97	3377.20
	5/15/01	3432.17	54.15	3378.02
	8/23/01	3432.17	54.12	3378.05
	1/21/02	3432.17	54.30	3377.87
	4/4/02	3432.17	54.31	3377.86
	9/3/02	3432.17	54.14	3378.03
	12/2/02	3432.17	53.88	3378.29
	1/30/03	3432.17	53.88	3378.29
	3/28/03	3432.17	54.16	3378.01
	5/19/03	3432.17	53.97	3378.20
	9/9/03	3432.17	54.05	3378.12
	12/2/03	3432.17	53.89	3378.28
	3/30/04	3432.17	54.11	3378.06
	6/7/04	3432.17	54.21	3377.96
	9/17/04	3432.17	53.94	3378.23
	11/30/04	3432.17	53.74	3378.43
	3/31/05	3432.17	53.37	3378.80
	5/23/05	3432.17	53.06	3379.11
	1/16/06	3432.17	52.62	3379.55
	6/19/06	3432.17	52.20	3379.97
	4/12/07	3432.17	51.78	3380.39
	3/19/08	3432.17	51.69	3380.48
	3/11/09	3432.17	51.94	3380.23
	3/1/10	3432.17	51.99	3380.18
	8/2/10	3432.17	52.03	3380.14
	5/6/11	3432.17	51.84	3380.33
	11/2/11	3432.17	51.89	3380.28
	5/3/12	3432.17	51.99	3380.18
	10/24/12	3432.17	52.12	3380.05
	5/2/13	3432.17	52.30	3379.87
	10/29/13	3432.17	52.30	3379.87
	5/5/14	3432.17	52.36	3379.81
	11/4/14	3432.17	52.31	3379.86

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW003	4/22/97	3428.27	49.79	3378.48
	12/18/97	3428.27	49.24	3379.03
	11/16/99	3428.27	*50.49	3377.78
	5/15/01	3428.27	49.63	3378.64
	8/23/01	3428.27	49.99	3378.28
	1/21/02	3428.27	49.81	3378.46
	4/4/02	3428.27	49.92	3378.35
	9/3/02	3428.27	49.80	3378.47
	12/2/02	3428.27	49.51	3378.76
	1/31/03	3428.27	49.64	3378.63
	3/28/03	3428.27	49.61	3378.66
	5/19/03	3428.27	49.57	3378.70
	9/9/03	3428.27	49.64	3378.63
	12/3/03	3428.27	49.70	3378.57
	3/30/04	3428.27	49.78	3378.49
	6/7/04	3428.27	49.74	3378.53
	9/17/04	3428.27	49.38	3378.89
	11/30/04	3428.27	48.80	3379.47
	3/31/05	3428.27	48.40	3379.87
	5/23/05	3428.27	48.31	3379.96
	1/17/06	3428.27	47.79	3380.48
	6/19/06	3428.27	47.65	3380.62
	4/16/07	3428.27	47.23	3381.04
	3/19/08	3428.27	47.21	3381.06
	3/11/09	3428.27	47.73	3380.54
	3/1/10	3428.27	47.94	3380.33
	8/3/10	3428.27	48.00	3380.27
	5/6/11	3428.27	47.75	3380.52
	11/1/11	3428.27	47.90	3380.37
	5/4/12	3428.27	48.13	3380.14
	10/23/12	3428.27	48.33	3379.94
	5/2/13	3428.27	48.52	3379.75
	10/29/13	3428.27	48.61	3379.66
	5/5/14	3428.27	48.62	3379.65
	11/4/14	3428.27	47.91	3380.36
MW004	4/22/97	3423.38	48.24	3375.14
	12/18/97	3423.38	47.69	3375.69
	11/16/99	3423.38	*46.76	3376.62
	5/15/01	3423.38	45.91	3377.47
	8/23/01	3423.38	46.12	3377.26
	1/21/02	3423.38	46.20	3377.18
	4/4/02	3423.38	46.27	3377.11
	9/3/02	3423.38	45.95	3377.43
	12/2/02	3423.38	45.85	3377.53
	1/31/03	3423.38	45.94	3377.44
	3/28/03	3423.38	45.96	3377.42
	5/19/03	3423.38	45.97	3377.41
	9/9/03	3423.38	46.14	3377.24
	12/3/03	3423.38	46.15	3377.23
	3/30/04	3423.38	46.24	3377.14
	6/7/04	3423.38	46.19	3377.19
	9/17/04	3423.38	45.90	3377.48
	11/29/04	3423.38	45.44	3377.94
	3/31/05	3423.38	42.85	3380.53
	5/23/05	3423.38	44.90	3378.48
	1/18/06	3423.38	44.17	3379.21
	6/19/06	3423.38	43.95	3379.43
	4/17/07	3423.38	43.76	3379.62
	3/19/08	3423.38	43.78	3379.60
	3/11/09	3423.38	44.33	3379.05
	3/1/10	3423.38	44.43	3378.95
	8/2/10	3423.38	44.38	3379.00
	5/6/11	3423.38	44.29	3379.09
	11/1/11	3423.38	44.52	3378.86
	5/4/12	3423.38	44.63	3378.75
	10/23/12	3423.38	44.94	3378.44
	5/1/13	3423.38	45.15	3378.23
	10/29/13	3423.38	45.35	3378.03
	5/5/14	3423.38	45.36	3378.02
	11/3/14	3423.38	44.87	3378.51

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW005	4/22/97	3424.77	49.30	3375.47
	12/18/97	3424.77	49.52	3375.25
	11/16/99	3424.77	*48.14	3376.63
	5/15/01	3424.77	NR	NR
	8/23/01	3424.77	47.82	3376.95
	1/21/02	3424.77	47.80	3376.97
	4/9/02	3424.77	47.31	3377.46
	4/10/03	3424.77	47.27	3377.50
	5/19/03	3424.77	47.25	3377.52
	9/8/03	3424.77	49.22	3375.55
	12/3/03	3424.77	47.51	3377.26
	3/30/04	3424.77	47.56	3377.21
	6/7/04	3424.77	47.54	3377.23
	9/17/04	3424.77	47.18	3377.59
	11/30/04	3424.77	46.51	3378.26
	4/1/05	3424.77	46.26	3378.51
	5/23/05	3424.77	46.04	3378.73
	1/18/06	3424.77	45.30	3379.47
	6/15/06	3424.77	45.05	3379.72
	4/19/07	3424.77	44.82	3379.95
	3/24/08	3424.77	44.92	3379.85
	3/11/09	3424.77	45.49	3379.28
	3/1/10	3424.77	45.55	3379.22
	8/3/10	3424.77	45.56	3379.21
	5/5/11	3424.77	45.35	3379.42
	11/1/11	3424.77	45.13	3379.64
	5/22/12	3424.77	45.76	3379.01
	10/25/12	3424.77	48.64	3376.13
	5/2/13	3424.77	46.25	3378.52
	10/29/13	3424.77	46.35	3378.42
	11/3/14	3424.77	Underwater	
MW006	4/22/97	3425.26	49.26	3376.00
	12/18/97	3425.26	49.69	3375.57
	11/16/99	3425.26	*48.69	3376.57
	5/15/01	3425.26	49.48	3375.78
	8/23/01	3425.26	50.21	3375.05
	1/21/02	3425.26	50.11	3375.15
	4/9/02	3425.26	50.35	3374.91
	9/11/02	3425.26	49.55	3375.71
	12/5/02	3425.26	49.13	3376.13
	4/10/03	3425.26	49.61	3375.65
	5/19/03	3425.26	49.63	3375.63
	9/8/03	3425.26	49.22	3376.04
	12/3/03	3425.26	49.95	3375.31
	3/30/04	3425.26	50.63	3374.63
	6/7/04	3425.26	49.25	3376.01
	9/17/04	3425.26	48.75	3376.51
	11/30/04	3425.26	46.94	3378.32
	4/1/05	3425.26	46.70	3378.56
	5/23/05	3425.26	46.49	3378.77
	1/18/06	3425.26	45.74	3379.52
	6/15/06	3425.26	45.47	3379.79
	4/23/07	3425.26	45.25	3380.01
	3/24/08	3425.26	45.35	3379.91
	3/11/09	3425.26	45.90	3379.36
	3/1/10	3425.26	45.97	3379.29
	8/3/10	3425.26	48.97	3376.29
	5/5/11	3425.26	45.75	3379.51
	11/2/11	3425.26	45.55	3379.71
	5/22/12	3425.26	46.10	3379.16
	10/25/12	3425.26	46.09	3379.17
	5/2/13	3425.26	46.74	3378.52
	10/29/13	3425.26	49.74	3375.52
	5/5/14	3425.26	49.66	3375.60
	11/3/14	3425.26	46.08	3381.84

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW007	12/18/97	3428.39	49.43	3378.96
	11/16/99	3428.39	*50.57	3377.82
	5/15/01	3428.39	49.70	3378.69
	8/23/01	3428.39	50.06	3378.33
	1/21/02	3428.39	49.93	3378.46
	4/4/02	3428.39	50.03	3378.36
	9/3/02	3428.39	49.90	3378.49
	12/2/02	3428.39	49.60	3378.79
	1/31/03	3428.39	49.71	3378.68
	3/28/03	3428.39	49.70	3378.69
	5/19/03	3428.39	49.60	3378.79
	9/9/03	3428.39	49.73	3378.66
	12/3/03	3428.39	49.71	3378.68
	3/30/04	3428.39	49.89	3378.50
	6/7/04	3428.39	49.82	3378.57
	9/17/04	3428.39	49.44	3378.95
	11/30/04	3428.39	48.90	3379.49
	3/31/05	3428.39	48.50	3379.89
	5/23/05	3428.39	48.41	3379.98
	1/17/06	3428.39	47.91	3380.48
	6/19/06	3428.39	47.75	3380.64
	4/16/07	3428.39	47.33	3381.06
	3/19/08	3428.39	47.35	3381.04
	3/10/09	3428.39	47.78	3380.61
	3/1/10	3428.39	48.09	3380.30
	8/3/10	3428.39	48.14	3380.25
	5/6/11	3428.39	47.90	3380.49
	11/1/11	3428.39	48.01	3380.38
	5/4/12	3428.39	48.25	3380.14
	10/23/12	3428.39	48.52	3379.87
	5/2/13	3428.39	48.70	3379.69
	10/29/13	3428.39	48.73	3379.66
	5/5/14	3428.39	48.76	3379.63
	11/4/14	3428.39	48.01	3380.38
MW008	12/18/97	3430.13	50.76	3379.37
	11/16/99	3430.13	*52.25	3377.88
	5/15/01	3430.13	51.36	3378.77
	8/23/01	3430.13	51.72	3378.41
	1/21/02	3430.13	51.53	3378.60
	4/4/02	3430.13	51.60	3378.53
	9/3/02	3430.13	51.51	3378.62
	12/2/02	3430.13	51.27	3378.86
	1/31/03	3430.13	51.31	3378.82
	3/28/03	3430.13	51.31	3378.82
	5/19/03	3430.13	51.21	3378.92
	9/9/03	3430.13	51.33	3378.80
	12/3/03	3430.13	51.33	3378.80
	3/30/04	3430.13	51.40	3378.73
	6/7/04	3430.13	51.82	3378.31
	11/30/04	3430.13	50.64	3379.49
	3/31/05	3430.13	50.24	3379.89
	5/23/05	3430.13	50.14	3379.99
	1/17/06	3430.13	49.52	3380.61
	6/19/06	3430.13	49.37	3380.76
	4/3/07	3430.13	48.93	3381.20
	3/24/08	3430.13	48.80	3381.33
	3/11/09	3430.13	49.24	3380.89
	3/1/10	3430.13	49.52	3380.61
	8/3/10	3430.13	49.49	3380.64
	5/6/11	3430.13	49.30	3380.83
	11/1/11	3430.13	49.45	3380.68
	5/4/12	3430.13	49.58	3380.55
	10/23/12	3430.13	49.75	3380.38
	5/2/13	3430.13	49.93	3380.20
	10/29/13	3430.13	50.03	3380.10
	5/5/14	3430.13	50.10	3380.03
	11/4/14	3430.13	49.80	3380.33

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW008M	1/21/02	3430.27	51.71	3378.56
	4/4/02	3430.27	51.77	3378.50
	9/3/02	3430.27	51.68	3378.59
	12/2/02	3430.27	51.45	3378.82
	1/31/03	3430.27	51.52	3378.75
	3/28/03	3430.27	51.47	3378.80
	5/19/03	3430.27	51.44	3378.83
	9/9/03	3430.27	51.49	3378.78
	12/3/03	3430.27	51.44	3378.83
	3/30/04	3430.27	51.52	3378.75
	6/7/04	3430.27	51.56	3378.71
	11/30/04	3430.27	50.79	3379.48
	3/31/05	3430.27	50.47	3379.80
	5/23/05	3430.27	50.32	3379.95
	1/17/06	3430.27	49.77	3380.50
	6/19/06	3430.27	49.65	3380.62
	4/13/07	3430.27	49.39	3380.88
	3/24/08	3430.27	49.12	3381.15
	3/11/09	3430.27	49.44	3380.83
	3/1/10	3430.27	49.73	3380.54
	8/3/10	3430.27	49.70	3380.57
	5/3/11	3430.27	49.55	3380.72
	11/2/11	3427.95	49.69	3378.26
	5/4/12	3427.95	49.84	3378.11
	10/23/12	3427.95	50.02	3377.93
	5/2/13	3427.95	50.22	3377.73
	10/29/13	3427.95	50.26	3377.69
	5/5/14	3427.95	50.30	3377.65
	11/4/14	3427.95	50.05	3377.90
MW009	12/18/97	3427.63	48.98	3378.65
	11/16/99	3427.63	*50.38	3377.25
	5/15/01	3427.63	49.59	3378.04
	8/23/01	3427.63	49.85	3377.78
	1/21/02	3427.63	49.82	3377.81
	4/4/02	3427.63	49.88	3377.75
	9/3/02	3427.63	49.75	3377.88
	12/2/02	3427.63	49.55	3378.08
	1/31/03	3427.63	49.60	3378.03
	3/28/03	3427.63	49.57	3378.06
	5/19/03	3427.63	49.53	3378.10
	9/9/03	3427.63	49.66	3377.97
	12/3/03	3427.63	49.66	3377.97
	3/30/04	3427.63	49.88	3377.75
	6/7/04	3427.63	49.77	3377.86
	9/17/04	3427.63	49.60	3378.03
	11/30/04	3427.63	49.00	3378.63
	3/31/05	3427.63	48.61	3379.02
	5/23/05	3427.63	48.47	3379.16
	1/17/06	3427.63	47.90	3379.73
	6/19/06	3427.63	47.75	3379.88
	3/18/08	3427.63	47.49	3380.14
	3/11/09	3427.63	47.91	3379.72
	3/1/10	3427.63	48.16	3379.47
	8/2/10	3427.63	48.06	3379.57
	5/6/11	3427.63	48.02	3379.61
	11/1/11	3427.63	48.24	3379.39
	5/3/12	3427.63	48.35	3379.28
	10/23/12	3427.63	48.60	3379.03
	5/1/13	3427.63	48.81	3378.82
	10/29/13	3427.63	48.95	3378.68
	5/5/14	3427.63	49.03	3378.60
	11/3/14	3427.63	48.50	3379.13

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW010	12/18/97	3419.42	43.22	3376.20
	11/16/99	3419.42	*41.27	3378.15
	5/15/01	3419.42	40.37	3379.05
	8/23/01	3419.42	40.61	3378.81
	1/21/02	3419.42	40.71	3378.71
	4/4/02	3419.42	40.85	3378.57
	9/3/02	3419.42	40.65	3378.77
	12/2/02	3419.42	40.50	3378.92
	1/30/03	3419.42	40.51	3378.91
	3/28/03	3419.42	40.46	3378.96
	5/19/03	3419.42	40.52	3378.90
	9/9/03	3419.42	40.52	3378.90
	12/7/03	3419.42	40.59	3378.83
	3/30/04	3419.42	40.81	3378.61
	6/7/04	3419.42	40.74	3378.68
	9/17/04	3419.42	40.50	3378.92
	11/30/04	3419.42	40.11	3379.31
	3/31/05	3419.42	39.63	3379.79
	5/23/05	3419.42	39.42	3380.00
	1/16/06	3419.42	39.15	3380.27
	6/16/06	3419.42	38.97	3380.45
	4/11/07	3419.42	38.57	3380.85
	3/19/08	3419.42	39.14	3380.28
	8/4/08	3419.42	38.94	3380.48
	3/11/09	3419.42	39.16	3380.26
	7/29/09	3419.42	39.31	3380.11
	3/1/10	3419.42	39.40	3380.02
	8/2/10	3419.42	39.36	3380.06
	5/3/11	3419.42	93.36	3326.06
	11/1/11	3419.42	49.50	3369.92
	5/1/12	3419.42	39.51	3379.91
	10/24/12	3419.42	39.77	3379.65
	5/1/13	3419.42	39.91	3379.51
	10/28/13	3419.42	40.06	3379.36
	5/5/14	3419.42	40.15	3379.27
	11/3/14	3419.42	39.62	3379.80
MW011	11/16/99	3431.49	*53.58	3377.91
	5/15/01	3431.49	52.78	3378.71
	8/23/01	3431.49	52.96	3378.53
	1/21/02	3431.49	52.84	3378.65
	4/4/02	3431.49	52.89	3378.60
	9/3/02	3431.49	52.80	3378.69
	12/2/02	3431.49	52.56	3378.93
	1/30/03	3431.49	52.51	3378.98
	3/28/03	3431.49	52.63	3378.86
	5/19/03	3431.49	52.58	3378.91
	9/9/03	3431.49	52.60	3378.89
	12/3/03	3431.49	52.52	3378.97
	3/30/04	3431.49	52.56	3378.93
	6/7/04	3431.49	52.61	3378.88
	11/30/04	3431.49	52.16	3379.33
	3/31/05	3431.49	52.82	3378.67
	5/23/05	3431.49	51.58	3379.91
	1/16/06	3431.49	51.16	3380.33
	6/19/06	3431.49	50.92	3380.57
	3/29/07	3431.49	50.57	3380.92
	3/24/08	3431.49	50.30	3381.19
	3/11/09	3431.49	50.53	3380.96
	3/1/10	3431.49	50.76	3380.73
	8/3/10	3431.49	50.81	3380.68
	5/6/11	3431.49	50.60	3380.89
	11/2/11	3431.49	50.71	3380.78
	5/3/12	3431.49	50.80	3380.69
	10/23/12	3431.49	50.91	3380.58
	5/2/13	3431.49	51.12	3380.37
	10/29/13	3431.49	51.13	3380.36
	5/5/14	3431.49	51.25	3380.24
	11/3/14	3431.49	50.75	3380.74

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW011M	1/21/02	3431.21	52.68	3378.53
	4/4/02	3431.21	52.63	3378.58
	9/3/02	3431.21	52.54	3378.67
	12/2/02	3431.21	52.32	3378.89
	1/30/03	3431.21	52.25	3378.96
	3/28/03	3431.21	52.32	3378.89
	5/19/03	3431.21	52.31	3378.90
	9/9/03	3431.21	52.30	3378.91
	12/3/03	3431.21	52.25	3378.96
	3/30/04	3431.21	52.31	3378.90
	6/7/04	3431.21	52.34	3378.87
	11/30/04	3431.21	51.91	3379.30
	3/31/05	3431.21	52.62	3378.59
	5/23/05	3431.21	51.38	3379.83
	1/16/06	3431.21	50.90	3380.31
	6/19/06	3431.21	50.65	3380.56
	3/29/07	3431.21	50.15	3381.06
	3/24/08	3431.21	49.97	3381.24
	3/11/09	3431.21	50.21	3381.00
	3/1/10	3431.21	50.59	3380.62
	8/3/10	3431.21	50.56	3380.65
	5/6/11	3431.21	50.33	3380.88
	11/1/11	3431.21	50.47	3380.74
	5/3/12	3431.21	50.54	3380.67
	10/23/12	3431.21	50.68	3380.53
	5/2/13	3431.21	50.88	3380.33
	10/29/13	3431.21	50.87	3380.34
	5/5/14	3431.21	50.98	3380.23
MW012	11/16/99	3429.51	*51.12	3378.39
	5/15/01	3429.51	50.50	3379.01
	8/23/01	3429.51	50.50	3379.01
	1/21/02	3429.51	50.48	3379.03
	4/5/02	3429.51	50.49	3379.02
	9/3/02	3429.51	50.40	3379.11
	12/2/02	3429.51	50.25	3379.26
	1/30/03	3429.51	50.13	3379.38
	3/28/03	3429.51	50.25	3379.26
	5/19/03	3429.51	50.15	3379.36
	9/9/03	3429.51	50.11	3379.40
	12/3/03	3429.51	50.05	3379.46
	3/30/04	3429.51	50.18	3379.33
	6/7/04	3429.51	50.13	3379.38
	11/30/04	3429.51	49.66	3379.85
	3/31/05	3429.51	49.58	3379.93
	5/23/05	3429.51	49.23	3380.28
	1/16/06	3429.51	48.88	3380.63
	6/19/06	3429.51	48.65	3380.86
	4/2/07	3429.51	48.21	3381.30
	3/21/08	3429.51	47.70	3381.81
	3/11/09	3429.51	48.26	3381.25
	3/1/10	3429.51	48.56	3380.95
	8/3/10	3429.51	48.62	3380.89
	5/6/11	3429.51	48.87	3380.64
	11/2/11	3429.51	48.47	3381.04
	5/3/12	3429.51	48.57	3380.94
	10/24/12	3429.51	48.65	3380.86
	5/1/13	3429.51	48.81	3380.70
	10/29/13	3429.51	48.89	3380.62
	5/5/14	3429.51	48.96	3380.55
	11/3/14	3429.51	48.81	3380.70

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW012M	1/21/02	3430.06	50.95	3379.11
	4/5/02	3430.06	51.37	3378.69
	9/3/02	3430.06	50.89	3379.17
	12/2/02	3430.06	50.75	3379.31
	1/30/03	3430.06	50.65	3379.41
	3/28/03	3430.06	50.76	3379.30
	5/19/03	3430.06	50.71	3379.35
	9/9/03	3430.06	50.63	3379.43
	12/3/03	3430.06	50.63	3379.43
	3/30/04	3430.06	50.70	3379.36
	6/7/04	3430.06	50.32	3379.74
	11/30/04	3430.06	50.30	3379.76
	3/31/05	3430.06	50.19	3379.87
	5/23/05	3430.06	49.64	3380.42
	1/16/06	3430.06	49.50	3380.56
	6/19/06	3430.06	48.41	3381.65
	4/5/07	3430.06	49.10	3380.96
	3/21/08	3430.06	48.79	3381.27
	3/11/09	3430.06	48.90	3381.16
	3/1/10	3430.06	49.62	3380.44
	8/3/10	3430.06	49.26	3380.80
	5/4/11	3430.06	49.11	3380.95
	11/2/11	3430.06	49.06	3381.00
	5/3/12	3430.06	49.18	3380.88
	10/24/12	3430.06	49.28	3380.78
	5/1/13	3430.06	49.46	3380.60
	10/29/13	3430.06	49.46	3380.60
	5/5/14	3430.06	49.60	3380.46
	11/3/14	3430.06	49.44	3380.62
MW013	12/18/97	3424.11	46.98	3377.13
	11/16/99	3424.11	*44.81	3378.30
	5/15/01	3424.11	45.05	3379.06
	8/23/01	3424.11	45.11	3379.00
	1/21/02	3424.11	45.14	3378.97
	4/5/02	3424.11	45.22	3378.89
	9/3/02	3424.11	45.11	3379.00
	12/2/02	3424.11	44.91	3379.20
	1/30/03	3424.11	44.84	3379.27
	3/28/03	3424.11	45.91	3378.20
	5/19/03	3424.11	44.90	3379.21
	9/9/03	3424.11	44.89	3379.22
	12/2/03	3424.11	44.75	3379.36
	3/30/04	3424.11	44.94	3379.17
	6/7/04	3424.11	44.98	3379.13
	9/17/04	3424.11	44.82	3379.29
	11/30/04	3424.11	44.53	3379.58
	3/31/05	3424.11	44.05	3380.06
	5/23/05	3424.11	43.85	3380.26
	1/16/06	3424.11	43.47	3380.64
	6/16/06	3424.11	43.21	3380.90
	4/18/07	3424.11	42.83	3381.28
	9/19/07	3424.11	42.63	3381.48
	3/18/08	3424.11	42.65	3381.46
	8/4/08	3424.11	42.96	3381.15
	3/11/09	3424.11	43.19	3380.92
	7/29/09	3424.11	43.30	3380.81
	3/1/10	3424.11	43.41	3380.70
	8/2/10	3424.11	40.42	3383.69
	5/4/11	3424.11	43.30	3380.81
	11/1/11	3423.11	43.30	3379.81
	5/1/12	3423.11	43.40	3379.71
	10/24/12	3423.11	43.61	3379.50
	5/1/13	3423.11	43.76	3379.35
	10/29/13	3423.11	43.90	3379.21
	5/5/14	3423.11	43.93	3379.18
	11/3/14	3423.11	43.65	3379.46

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW014	11/16/99	3424.05	45.22	3378.86
	5/15/01	3424.05	44.61	3379.44
	8/23/01	3424.05	44.48	3379.57
	1/21/02	3424.05	44.49	3379.56
	4/5/02	3424.05	44.60	3379.45
	9/3/02	3424.05	44.25	3379.80
	12/2/02	3424.05	44.24	3379.81
	1/30/03	3424.05	44.19	3379.86
	3/28/03	3424.05	44.31	3379.74
	5/19/03	3424.05	44.25	3379.80
	9/9/03	3424.05	44.18	3379.87
	12/2/03	3424.05	44.03	3380.02
	3/30/04	3424.05	44.25	3379.80
	6/7/04	3424.05	44.18	3379.87
	9/14/04	3424.05	44.16	3379.89
	11/30/04	3424.05	43.98	3380.07
	3/31/05	3424.05	43.57	3380.48
	5/23/05	3424.05	40.76	3383.29
	1/17/06	3424.05	42.89	3381.16
	6/16/06	3424.05	42.78	3381.27
	3/26/07	3424.05	42.37	3381.68
	9/19/07	3424.05	42.14	3381.91
	3/19/08	3424.05	42.22	3381.83
	3/11/09	3424.05	42.69	3381.36
	7/29/09	3424.05	42.83	3381.22
	3/1/10	3424.05	42.97	3381.08
	8/2/10	3424.05	47.98	3376.07
	5/3/11	3424.05	42.56	3381.49
	11/1/11	3424.08	42.89	3381.19
	5/1/12	3424.08	42.91	3381.17
	10/24/12	3424.08	43.12	3380.96
	4/30/13	3424.08	43.20	3380.88
	10/29/13	3424.08	43.34	3380.74
	5/5/14	3424.08	43.40	3380.68
	11/3/14	3424.08	43.20	3380.88
MW015	11/16/99	3420.40	41.46	3378.94
	5/15/01	3420.40	40.85	3379.55
	8/23/01	3420.40	40.85	3379.55
	1/21/02	3420.40	40.81	3379.59
	4/4/02	3420.40	40.99	3379.41
	9/3/02	3420.40	40.75	3379.65
	12/2/02	3420.40	40.53	3379.87
	1/30/03	3420.40	40.51	3379.89
	3/28/03	3420.40	40.64	3379.76
	5/19/03	3420.40	40.56	3379.84
	9/8/03	3420.40	40.57	3379.83
	12/2/03	3420.40	40.51	3379.89
	3/30/04	3420.40	40.81	3379.59
	6/7/04	3420.40	40.60	3379.80
	9/16/04	3420.40	40.55	3379.85
	11/30/04	3420.40	40.22	3380.18
	3/31/05	3420.40	39.77	3380.63
	5/23/05	3420.40	39.58	3380.82
	1/17/06	3420.40	39.17	3381.23
	6/16/06	3420.40	39.13	3381.27
	3/22/07	3420.40	38.83	3381.57
	9/18/07	3420.40	38.51	3381.89
	3/18/08	3420.40	38.59	3381.81
	8/4/08	3420.40	39.02	3381.38
	3/10/09	3420.40	39.11	3381.29
	7/28/09	3420.40	39.35	3381.05
	3/1/10	3420.40	39.50	3380.90
	8/2/10	3420.40	39.49	3380.91
	5/3/11	3420.40	39.51	3380.89
	11/1/11	3420.40	39.58	3380.82
	5/1/12	3420.40	39.61	3380.79
	10/24/12	3420.40	39.87	3380.53
	4/30/13	3420.40	39.85	3380.55
	10/29/13	3420.40	40.07	3380.33
	5/5/14	3420.40	40.15	3380.25
	11/5/14	3420.40	39.83	3380.57

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW018	5/15/01	3417.15	37.82	3379.33
	5/15/01	3417.15	37.90	3379.25
	8/23/01	3417.15	37.26	3379.89
	1/21/02	3417.15	37.90	3379.25
	4/4/02	3417.15	38.15	3379.00
	9/3/02	3417.15	37.34	3379.81
	12/2/02	3417.15	37.37	3379.78
	1/30/03	3417.15	37.38	3379.77
	3/28/03	3417.15	37.66	3379.49
	5/19/03	3417.15	37.81	3379.34
	9/8/03	3417.15	37.82	3379.33
	12/2/03	3417.15	37.99	3379.16
	3/30/04	3417.15	38.30	3378.85
	6/7/04	3417.15	37.86	3379.29
	9/16/04	3417.15	37.48	3379.67
	11/29/04	3417.15	36.48	3380.67
	3/31/05	3417.15	36.32	3380.83
	5/23/05	3417.15	36.18	3380.97
	1/17/06	3417.15	36.05	3381.10
	6/16/06	3417.15	36.31	3380.84
	4/2/07	3417.15	35.95	3381.20
	9/13/07	3417.15	35.18	3381.97
	3/18/08	3417.15	36.19	3380.96
	3/10/09	3417.15	36.59	3380.56
	7/28/09	3417.15	36.83	3380.32
	3/1/10	3417.15	36.74	3380.41
	8/2/10	3417.15	36.38	3380.77
	5/3/11	3417.15		
	11/1/11	3417.15	37.11	3380.04
	5/22/12	3417.15	37.35	3379.80
	10/24/12	3417.15	37.24	3379.91
	4/30/13	3417.15	37.50	3379.65
	10/29/13	3417.15	37.60	3379.55
	5/5/14	3417.15	37.74	3379.41
	11/4/14	3417.15	36.70	3380.45
MW020	11/16/99	3420.85	44.58	3376.27
	2/6/02	3420.85	44.02	3376.83
	9/3/02	3420.85	43.79	3377.06
	12/9/02	3420.85	43.84	3377.01
	1/30/03	3420.85	43.78	3377.07
	3/28/03	3420.85	43.86	3376.99
	6/5/03	3420.85	43.93	3376.92
	1/22/04	3420.85	44.39	3376.46
	3/30/04	3420.85	44.41	3376.44
	6/7/04	3420.85	44.16	3376.69
	9/17/04	3420.85	43.99	3376.86
	11/29/04	3420.85	43.59	3377.26
	4/1/05	3420.85	43.12	3377.73
	5/23/05	3420.85	42.99	3377.86
	1/17/06	3420.85	42.61	3378.24
	6/16/06	3420.85	42.55	3378.30
	4/4/07	3420.85	42.23	3378.62
	3/18/08	3420.85	42.25	3378.60
	8/4/08	3420.85	42.57	3378.28
	3/10/09	3420.85	42.67	3378.18
	7/28/09	3420.85	42.88	3377.97
	3/1/10	3420.85	42.86	3377.99
	7/30/10	3420.85	42.80	3378.05
	5/3/11	3420.85	42.99	3377.86
	11/1/11	3420.85	43.70	3377.15
	5/2/12	3420.85	43.30	3377.55
	10/24/12	3420.85	43.48	3377.37
	4/30/13	3420.85	43.62	3377.23
	10/29/13	3420.85	43.82	3377.03
	5/5/14	3420.85	43.83	3377.02
	11/4/14	3420.85	43.45	3377.40

TABLE 1
SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW021	11/16/99	3422.72	47.82	3374.90
	5/15/01	3422.72	47.09	3375.63
	8/23/01	3422.72	47.34	3375.38
	1/21/02	3422.72	47.19	3375.53
	4/4/02	3422.72	47.35	3375.37
	9/3/02	3422.72	47.25	3375.47
	12/2/02	3422.72	47.01	3375.71
	1/30/03	3422.72	46.98	3375.74
	3/28/03	3422.72	47.02	3375.70
	5/19/03	3422.72	47.09	3375.63
	9/8/03	3422.72	47.21	3375.51
	1/21/04	3422.72	47.22	3375.50
	3/30/04	3422.72	47.21	3375.51
	6/7/04	3422.72	47.45	3375.27
	9/17/04	3422.72	47.15	3375.57
	11/29/04	3422.72	46.80	3375.92
	3/31/05	3422.72	46.28	3376.44
	5/23/05	3422.72	46.22	3376.50
	1/18/06	3422.72	45.68	3377.04
	6/14/06	3422.72	45.45	3377.27
	4/9/07	3422.72	45.10	3377.62
	9/18/07	3422.72	45.81	3376.91
	3/18/08	3422.72	45.07	3377.65
	8/4/08	3422.72	46.23	3376.49
	3/10/09	3422.72	45.60	3377.12
	7/28/09	3422.72	45.77	3376.95
	3/1/10	3422.72	45.71	3377.01
	8/2/10	3422.72	45.89	3376.83
	5/4/11	3422.72	45.23	3377.49
	11/1/11	3422.72	46.07	3376.65
	5/2/12	3422.72	46.11	3376.61
	10/24/12	3422.72	46.52	3376.20
	4/29/13	3422.72	46.58	3376.14
Plugged and Abandoned				
MW023	11/16/99	3436.44	58.42	3378.02
	5/15/01	3436.44	57.73	3378.71
	8/23/01	3436.44	57.79	3378.65
	2/7/02	3436.44	57.77	3378.67
	9/3/02	3436.44	57.69	3378.75
	12/2/02	3436.44	57.46	3378.98
	1/30/03	3436.44	57.41	3379.03
	3/28/03	3436.44	57.50	3378.94
	5/19/03	3436.44	57.41	3379.03
	9/9/03	3436.44	57.39	3379.05
	12/2/03	3436.44	57.14	3379.30
	3/30/04	3436.44	57.34	3379.10
	6/7/04	3436.44	57.21	3379.23
	9/17/04	3436.44	57.34	3379.10
	11/30/04	3436.44	57.16	3379.28
	3/31/05	3436.44	56.92	3379.52
	5/23/05	3436.44	56.68	3379.76
	1/17/06	3436.44	56.37	3380.07
	6/14/06	3436.44	56.00	3380.44
	4/18/07	3436.44	55.64	3380.80
	9/20/07	3436.44	55.46	3380.98
	4/9/08	3436.44	55.31	3381.13
	8/4/08	3436.44	55.40	3381.04
	3/11/09	3436.44	55.55	3380.89
	7/29/09	3436.44	55.55	3380.89
	3/1/10	3436.44	55.66	3380.78
	8/3/10	3436.44	55.51	3380.93
	5/5/11	3436.44	55.26	3381.18
	11/1/11	3436.44	55.53	3380.91
	5/24/12	3436.44	55.63	3380.81
	10/25/12	3436.44	55.72	3380.72
	5/1/13	3436.44	55.80	3380.64
	10/28/13	3436.44	55.81	3380.63
	5/5/14	3436.44	55.91	3380.53
	11/3/14	3436.44	55.88	3380.56

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW024	1/9/03	3431.32	53.76	3377.56
	1/29/03	3431.32	53.64	3377.68
	3/27/03	3431.32	53.85	3377.47
	5/19/03	3431.32	53.77	3377.55
	9/9/03	3431.32	53.93	3377.39
	12/2/03	3431.32	53.86	3377.46
	3/30/04	3431.32	54.10	3377.22
	6/7/04	3431.32	54.21	3377.11
	9/16/04	3431.32	53.71	3377.61
	11/29/04	3431.32	53.54	3377.78
	3/31/05	3431.32	53.06	3378.26
	5/23/05	3431.32	52.78	3378.54
	1/17/06	3431.32	52.11	3379.21
	6/14/06	3431.32	51.60	3379.72
	4/11/07	3431.32	51.33	3379.99
	9/13/07	3431.32	51.44	3379.88
	3/19/08	3431.32	51.45	3379.87
	8/4/08	3431.32	51.52	3379.80
	3/11/09	3431.22	51.69	3379.53
	7/29/09	3431.22	51.74	3379.48
	3/1/10	3431.22	51.78	3379.44
	8/2/10	3431.22	51.81	3379.41
	5/4/11	3431.22	51.60	3379.62
	11/1/11	3431.32	51.77	3379.55
	5/1/12	3431.32	51.76	3379.56
	10/24/12	3431.32	51.89	3379.43
	5/1/13	3431.32	52.10	3379.22
	10/28/13	3431.32	52.23	3379.09
	5/5/14	3431.32	52.24	3379.08
	11/3/14	3431.32	52.20	3379.12
MW025	11/16/99	3432.69	53.23	3379.41
	5/15/01	3432.69	53.24	3379.45
	8/23/01	3432.69	53.02	3379.67
	1/21/02	3432.69	53.03	3379.66
	4/5/02	3432.69	53.17	3379.52
	9/3/02	3432.69	53.01	3379.68
	12/2/02	3432.69	52.83	3379.86
	1/29/03	3432.69	52.80	3379.89
	3/28/03	3432.69	52.86	3379.83
	5/19/03	3432.69	52.59	3380.10
	9/9/03	3432.69	52.62	3380.07
	12/2/03	3432.69	52.55	3380.14
	3/30/04	3432.69	52.70	3379.99
	6/7/04	3432.69	52.62	3380.07
	9/16/04	3432.69	52.48	3380.21
	11/29/04	3432.69	52.41	3380.28
	3/31/05	3432.69	52.10	3380.59
	5/23/05	3432.69	51.88	3380.81
	1/17/06	3432.69	51.43	3381.26
	6/16/06	3432.69	51.40	3381.29
	3/22/07	3432.69	50.04	3382.65
	9/18/07	3432.69	50.89	3381.80
	3/18/08	3432.69	50.85	3381.84
	8/4/08	3432.69	51.10	3381.59
	3/10/09	3432.69	51.12	3381.57
	7/28/09	3432.69	51.31	3381.38
	3/1/10	3432.69	51.41	3381.28
	8/3/10	3432.69	51.41	3381.28
	5/3/11	3432.69	51.30	3381.39
	11/1/11	3432.64	51.25	3381.39
	5/1/12	3432.64	51.38	3381.26
	10/25/12	3432.64	51.53	3381.11
	4/30/13	3432.64	51.58	3381.06
Plugged and Abandoned				

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW026	11/16/99	3432.04	52.95	3379.09
	5/15/01	3432.04	52.08	3379.96
	8/23/01	3432.04	52.06	3379.98
	1/21/02	3432.04	51.91	3380.13
	4/4/02	3432.04	52.00	3380.04
	9/3/02	3432.04	51.99	3380.05
	12/2/02	3432.04	51.60	3380.44
	1/30/03	3432.04	51.43	3380.61
	3/28/03	3432.04	51.62	3380.42
	5/19/03	3432.04	51.52	3380.52
	9/8/03	3432.04	51.64	3380.40
	12/2/03	3432.04	51.49	3380.55
	3/30/04	3432.04	51.70	3380.34
	6/7/04	3432.04	51.69	3380.35
	9/16/04	3432.04	51.62	3380.42
	11/30/04	3432.04	51.56	3380.48
	3/31/05	3432.04	51.03	3381.01
	5/23/05	3432.04	50.79	3381.25
	1/17/06	3432.04	50.43	3381.61
	6/15/06	3432.04	50.23	3381.81
	4/5/07	3432.04	51.12	3380.92
	9/10/07	3432.04	49.84	3382.20
	3/18/08	3432.04	49.74	3382.30
	8/4/08	3432.04	49.80	3382.24
	3/10/09	3432.04	50.25	3381.79
	7/28/09	3432.04	50.52	3381.52
	3/1/10	3432.04	50.75	3381.29
	8/2/10	3432.04	52.85	3379.19
	5/3/11	3432.04	50.76	3381.28
	11/1/11	3432.04	50.78	3381.26
	5/3/12	3432.04	50.83	3381.21
	10/25/12	3432.04	51.08	3380.96
	4/30/13	3432.04	50.90	3381.14
	10/29/13	3432.04	50.82	3381.22
	5/5/14	3432.04	51.15	3380.89
	11/3/14	3432.04	51.20	3380.84
MW027	11/16/99	3443.33	64.65	3378.68
	5/15/01	3443.33	64.09	3379.24
	8/23/01	3443.33	63.82	3379.51
	1/21/02	3443.33	63.87	3379.46
	4/4/02	3443.33	63.90	3379.43
	9/3/02	3443.33	63.90	3379.43
	12/2/02	3443.33	63.64	3379.69
	1/30/03	3443.33	63.59	3379.74
	3/27/03	3443.33	63.49	3379.84
	5/19/03	3443.33	63.63	3379.70
	9/8/03	3443.33	63.58	3379.75
	12/2/03	3443.33	63.48	3379.85
	3/30/04	3443.33	63.62	3379.71
	6/7/04	3443.33	63.67	3379.66
	9/16/04	3443.33	63.55	3379.78
	11/29/04	3443.33	63.48	3379.85
	3/31/05	3443.33	62.98	3380.35
	5/23/05	3443.33	62.73	3380.60
	1/17/06	3443.33	62.39	3380.94
	6/16/06	3443.33	62.32	3381.01
	3/21/07	3443.33	62.13	3381.20
	9/13/07	3443.33	62.04	3381.29
	3/18/08	3443.33	61.99	3381.34
	8/4/08	3443.33	62.14	3381.19
	3/11/09	NG	NG	NG
	7/29/09	3443.33	62.52	3380.81
	3/1/10	3443.33	62.73	3380.60
	8/2/10	3443.33	62.84	3380.49
	5/3/11	3443.33	62.57	3380.76
	11/1/11	3443.33	62.57	3380.76
	5/17/12	3443.33	62.65	3380.68
	10/24/12	3443.33	62.67	3380.66
	4/30/13	3443.33	62.80	3380.53
	10/29/13	3443.33	62.99	3380.34
	5/5/14	3443.33	62.87	3380.46
	11/3/14	3443.33	62.90	3380.43

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW028	11/16/99	3451.63	73.52	3378.11
	5/15/01	3451.63	72.89	3378.74
	8/23/01	3451.63	72.86	3378.77
	1/21/02	3451.63	72.75	3378.88
	4/5/02	3451.63	72.77	3378.86
	9/3/02	3451.63	72.71	3378.92
	12/2/02	3451.63	72.55	3379.08
	1/29/03	3451.63	72.51	3379.12
	3/28/03	3451.63	72.58	3379.05
	5/19/03	3451.63	72.52	3379.11
	9/9/03	3451.63	72.53	3379.10
	1/28/04	3451.63	72.53	3379.10
	3/30/04	3451.63	72.36	3379.27
	6/7/04	3451.63	72.25	3379.38
	9/17/04	3451.63	72.28	3379.35
	11/29/04	3451.63	71.89	3379.74
	4/1/05	3451.63	71.71	3379.92
	5/23/05	3451.63	71.55	3380.08
	1/17/06	3451.63	71.10	3380.53
	6/14/06	3451.63	71.16	3380.47
	3/21/07	3451.63	70.91	3380.72
	9/5/07	3451.63	70.61	3381.02
	3/18/08	3451.63	70.68	3380.95
	8/4/08	3451.63	69.96	3381.67
	3/10/09	3451.63	70.70	3380.93
	7/28/09	3451.63	70.89	3380.74
	3/1/10	3451.63	70.92	3380.71
	8/2/10	3451.63	70.66	3380.97
	5/3/11	3451.63	70.66	3380.97
	11/1/11	3451.63	70.76	3380.87
	5/24/12	3451.63	70.92	3380.71
	10/24/12	3451.63	70.92	3380.71
	4/30/13	3451.63	71.00	3380.63
Plugged and Abandoned				
MW029	11/16/99	3446.89	68.62	3378.27
	5/15/01	3446.89	68.12	3378.77
	8/30/01	3446.89	68.47	3378.42
	2/6/02	3446.89	67.97	3378.92
	9/3/02	3446.89	67.86	3379.03
	12/2/02	3446.89	67.70	3379.19
	1/29/03	3446.89	67.73	3379.16
	3/27/03	3446.89	67.66	3379.23
	5/19/03	3446.89	67.63	3379.26
	9/9/03	3446.89	67.68	3379.21
	12/2/03	3446.89	67.59	3379.30
	3/30/04	3446.89	67.50	3379.39
	6/7/04	3446.89	67.53	3379.36
	6/16/04	3446.89	67.49	3379.40
	11/29/04	3446.89	67.58	3379.31
	3/31/05	3446.89	67.33	3379.56
	5/23/05	3446.89	67.15	3379.74
	1/17/06	3446.89	66.99	3379.90
	6/14/06	3446.89	66.75	3380.14
	3/28/07	3446.89	66.46	3380.43
	9/5/07	3446.89	66.25	3380.64
	3/18/08	3446.89	66.09	3380.80
	8/4/08	3446.89	65.98	3380.91
	3/10/09	3446.89	65.97	3380.92
	7/28/09	3446.89	65.92	3380.97
	3/1/10	3446.89	66.00	3380.89
	8/2/10	3446.89	65.96	3380.93
	5/4/11	3446.89	65.85	3381.04
	11/1/11	3446.89	65.81	3381.08
	5/1/12	3446.89	65.80	3381.09
	10/24/12	3446.89	65.80	3381.09
	5/1/13	3446.89	65.91	3380.98
Plugged and Abandoned				

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW030	4/24/02	3439.84	61.42	3378.42
	5/7/02	3439.84	61.30	3378.54
	9/3/02	3439.84	61.39	3378.45
	12/2/02	3439.84	61.18	3378.66
	1/29/03	3439.84	61.80	3378.04
	3/27/03	3439.84	61.14	3378.70
	5/19/03	3439.84	61.16	3378.68
	9/9/03	3439.84	61.16	3378.68
	12/2/03	3439.84	61.06	3378.78
	3/30/04	3439.84	61.04	3378.80
	6/7/04	3439.84	61.03	3378.81
	9/17/04	3439.84	61.06	3378.78
	11/29/04	3439.84	61.08	3378.76
	3/31/05	3439.84	60.80	3379.04
	5/23/05	3439.84	60.60	3379.24
	1/17/06	3439.84	60.28	3379.56
	6/14/06	3439.84	59.99	3379.85
	3/28/07	3439.84	59.58	3380.26
	9/10/07	3439.84	59.40	3380.44
	3/18/08	3439.84	58.20	3381.64
	8/4/08	3439.84	59.14	3380.70
	3/10/09	3439.84	59.25	3380.59
	7/28/09	3439.84	59.24	3380.60
	3/1/10	3439.84	59.32	3380.52
	8/2/10	3439.84	59.32	3380.52
	5/4/11	3439.84	59.23	3380.61
	11/1/11	3439.84	59.17	3380.67
	5/1/12	3439.84	59.17	3380.67
	10/24/12	3439.84	59.20	3380.64
	5/1/13	3439.84	59.39	3380.45
	10/28/13	3439.84	59.42	3380.42
	5/5/14	3439.84	59.47	3380.37
	11/3/14	3439.84	59.51	3380.33
MW031	4/25/02	3440.68	61.80	3378.88
	5/7/02	3440.68	61.85	3378.83
	9/3/02	3440.68	61.88	3378.80
	12/2/02	3440.68	61.73	3378.95
	1/29/03	3440.68	61.71	3378.97
	3/27/03	3440.68	61.65	3379.03
	5/19/03	3440.68	61.67	3379.01
	9/9/03	3440.68	61.68	3379.00
	12/2/03	3440.68	61.50	3379.18
	3/30/04	3440.68	61.53	3379.15
	6/7/04	3440.68	61.51	3379.17
	9/16/04	3440.68	61.48	3379.19
	11/29/04	3440.68	61.43	3379.25
	3/31/05	3440.68	61.04	3379.64
	5/23/05	3440.68	60.96	3379.72
	1/17/06	3440.68	60.74	3379.94
	6/14/06	3440.68	60.53	3380.15
	3/28/07	3440.68	60.24	3380.44
	9/10/07	3440.68	60.00	3380.68
	3/18/08	3440.68	59.89	3380.79
	8/4/08	3440.68	59.90	3380.78
	3/10/09	3440.68	59.86	3380.82
	7/28/09	3440.68	59.58	3381.10
	3/1/10	3440.68	60.04	3380.64
	8/2/10	3440.68	60.04	3380.64
	5/4/11	3440.68	59.89	3380.79
	11/1/11	3440.68	59.79	3380.89
	5/1/12	3440.68	59.88	3380.80
	10/24/12	3440.68	59.91	3380.77
	5/1/13	3440.68	60.08	3380.60
	10/28/13	3440.68	60.03	3380.65
	5/5/14	3440.68	60.13	3380.55
	11/3/14	3440.68	60.15	3380.53

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW032	4/4/02	3442.22	62.71	3379.51
	9/3/02	3442.22	62.61	3379.61
	12/2/02	3442.22	62.40	3379.82
	1/31/03	3442.22	62.55	3379.67
	3/27/03	3442.22	62.32	3379.90
	5/19/03	3442.22	62.37	3379.85
	9/9/03	3442.22	62.38	3379.84
	12/2/03	3442.22	62.23	3379.99
	3/30/04	3442.22	62.30	3379.92
	6/7/04	3442.22	62.28	3379.94
	9/16/04	3442.22	62.14	3380.08
	3/31/05	3442.22	61.54	3380.68
	5/23/05	3442.22	61.35	3380.87
	1/17/06	3442.22	60.93	3381.29
	6/15/06	3442.22	60.92	3381.30
	4/13/07	3442.22	60.75	3381.47
	9/6/07	3442.22	60.52	3381.70
	3/19/08	3442.22	60.59	3381.63
	8/4/08	3442.22	60.85	3381.37
	3/10/09	3442.22	60.82	3381.40
	7/28/09	3442.22	61.02	3381.20
	3/1/10	3442.22	61.06	3381.16
	8/2/10	3442.22	61.72	3380.50
	8/3/10	3442.22	47.79	3394.43
	5/3/11	3442.22	60.91	3381.31
	11/1/11	3442.22	62.91	3379.31
	5/24/12	3442.22	61.12	3381.10
	10/24/12	3442.22	61.08	3381.14
	4/30/13	3442.22	61.20	3381.02
	10/29/13	3442.22	61.33	3380.89
	5/5/14	3442.22	61.27	3380.95
	11/3/14	3442.22	61.20	3381.02
MW033	4/4/02	3428.86	48.95	3379.91
	9/3/02	3428.86	48.86	3380.00
	12/5/02	3428.86	48.76	3380.10
	1/31/03	3428.86	48.63	3380.23
	3/27/03	3428.86	48.50	3380.36
	5/19/03	3428.86	48.63	3380.23
	9/9/03	3428.86	48.59	3380.27
	12/3/03	3428.86	48.69	3380.17
	3/30/04	3428.86	49.78	3379.08
	6/7/04	3428.86	48.64	3380.22
	9/16/04	3428.86	48.51	3380.35
	11/30/04	3428.86	48.41	3380.45
	4/1/05	3428.86	48.24	3380.62
	5/23/05	3428.86	47.73	3381.13
	1/17/06	3428.86	47.27	3381.59
	6/16/06	3428.86	47.06	3381.80
	4/23/07	3428.86	46.85	3382.01
	9/20/07	3428.86	46.64	3382.22
	3/18/08	3428.86	46.62	3382.24
	8/4/08	3428.86	46.92	3381.94
	3/11/09	3428.86	47.19	3381.67
	7/29/09	3428.86	47.34	3381.52
	3/1/10	3428.86	47.47	3381.39
	8/3/10	3428.86	47.53	3381.33
	5/3/11	3428.86	47.40	3381.46
	11/2/11	3428.86	47.50	3381.36
	5/24/12	3428.86	47.56	3381.30
	10/25/12	3428.86	47.79	3381.07
	4/30/13	3428.86	47.78	3381.08
Plugged and Abandoned				

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW034	4/4/02	3418.76	43.49	3375.27
	9/3/02	3418.76	43.43	3375.33
	12/2/02	3418.76	43.24	3375.52
	1/30/03	3418.76	43.31	3375.45
	3/28/03	3418.76	43.20	3375.56
	5/19/03	3418.76	43.24	3375.52
	9/8/03	3418.76	43.43	3375.33
	12/2/03	3418.76	43.37	3375.39
	3/30/04	3418.76	43.55	3375.21
	6/7/04	3418.76	43.50	3375.26
	9/16/04	3418.76	43.41	3375.35
	11/29/04	3418.76	43.71	3375.05
	3/31/05	3418.76	42.66	3376.10
	5/23/05	3418.76	42.52	3376.24
	1/17/06	3418.76	47.06	3371.70
	6/19/06	3418.76	41.70	3377.06
	4/9/07	3418.76	41.40	3377.36
	3/19/08	3418.76	41.35	3377.41
	3/11/09	3418.76	41.86	3376.90
	3/1/10	3418.76	41.95	3376.81
	8/2/10	3418.76	41.99	3376.77
	5/4/11	3418.76	41.96	3376.80
	11/1/11	3418.76	42.26	3376.50
	5/8/12	3418.76	42.33	3376.43
	10/24/12	3418.76	42.61	3376.15
	4/30/13	3418.76	42.76	3376.00
	5/5/14	3418.76	43.01	3375.75
	11/3/14	3418.76	42.61	3376.15
MW035	8/23/01	3427.39	50.49	3376.90
	1/21/02	3427.39	50.45	3376.94
	4/4/02	3427.39	50.58	3376.81
	9/3/02	3427.39	50.04	3377.35
	12/2/02	3427.39	50.03	3377.36
	1/31/03	3427.39	50.03	3377.36
	3/28/03	3427.39	50.19	3377.20
	5/19/03	3427.39	50.24	3377.15
	9/9/03	3427.39	50.35	3377.04
	12/3/03	3427.39	50.32	3377.07
	3/30/04	3427.39	50.52	3376.87
	6/7/04	3427.39	50.51	3376.88
	9/17/04	3427.39	49.98	3377.41
	11/30/04	3427.39	49.09	3378.30
	3/31/05	3427.39	49.02	3378.37
	5/23/05	3427.39	49.06	3378.33
	1/17/06	3427.39	48.44	3378.95
	6/19/06	3427.39	48.18	3379.21
	4/2/07	3427.39	47.91	3379.48
	3/18/08	3427.39	47.94	3379.45
	3/10/09	3427.39	48.45	3378.94
	3/1/10	3427.39	48.58	3378.81
	8/2/10	3427.39	48.44	3378.95
	5/6/11	3427.39	46.18	3381.21
	11/1/11	3427.39	48.79	3378.60
	5/3/12	3427.39	48.80	3378.59
	10/24/12	3427.39	49.16	3378.23
	5/2/13	3427.39	49.25	3378.14
Plugged and Abandoned				

TABLE 1
SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW036	8/23/01	3425.49	48.36	3377.13
	1/21/02	3425.49	48.22	3377.27
	4/4/02	3425.49	48.24	3377.25
	9/3/02	3425.49	47.75	3377.74
	12/2/02	3425.49	47.78	3377.71
	1/31/03	3425.49	47.84	3377.65
	3/28/03	3425.49	47.91	3377.58
	5/19/03	3425.49	47.96	3377.53
	9/9/03	3425.49	48.12	3377.37
	12/3/03	3425.49	48.22	3377.27
	3/30/04	3425.49	48.37	3377.12
	6/7/04	3425.49	48.32	3377.17
	9/17/04	3425.49	47.86	3377.63
	11/30/04	3425.49	47.20	3378.29
	4/1/05	3425.49	46.89	3378.60
	5/23/05	3425.49	46.80	3378.69
	1/17/06	3425.49	46.11	3379.38
	6/19/06	3425.49	45.79	3379.70
	4/19/07	3425.49	45.52	3379.97
	3/24/08	3425.49	45.65	3379.84
	3/11/09	3425.49	46.18	3379.31
	3/1/10	3425.49	46.26	3379.23
	8/3/10	3425.49	46.37	3379.12
	5/6/11	3425.49	46.00	3379.49
	11/2/11	3425.49	46.22	3379.27
	5/22/12	3425.49	46.48	3379.01
	10/24/12	3425.49	46.82	3378.67
	5/2/13	3425.49	46.90	3378.59
	10/29/13	3425.49	47.15	3378.34
	5/5/14	3425.49	47.15	3378.34
	11/3/14	3425.49	46.80	3378.69
MW037	8/23/01	3423.71	46.60	3377.11
	1/21/02	3423.71	46.59	3377.12
	4/4/02	3423.71	46.62	3377.09
	9/3/02	3423.71	46.07	3377.64
	12/2/02	3423.71	46.17	3377.54
	1/31/03	3423.71	46.28	3377.43
	3/28/03	3423.71	46.29	3377.42
	5/19/03	3423.71	46.39	3377.32
	9/9/03	3423.71	46.52	3377.19
	12/3/03	3423.71	46.46	3377.25
	3/30/04	3423.71	47.76	3375.95
	6/7/04	3423.71	46.64	3377.07
	9/17/04	3423.71	46.18	3377.53
	11/30/04	3423.71	45.51	3378.20
	4/1/05	3423.71	45.34	3378.37
	5/23/05	3423.71	45.21	3378.50
	1/18/06	3423.71	44.46	3379.25
	6/19/06	3423.71	44.29	3379.42
	4/19/07	3423.71	44.05	3379.66
	3/24/08	3423.71	44.15	3379.56
	3/11/09	3423.71	45.74	3377.97
	3/1/10	3423.71	44.74	3378.97
	5/6/11	3423.71	44.55	3379.16
	11/2/11	3423.71	44.86	3378.85
	5/3/12	3423.71	45.00	3378.71
	10/23/12	3423.71	45.31	3378.40
	5/1/13	3423.71	45.43	3378.28
	10/29/13	3423.71	45.95	3377.76
	5/5/14	3423.71	45.71	3378.00
	11/3/14	3423.71	45.30	3378.41

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW038	8/23/01	3425.23	47.85	3377.38
	1/21/02	3425.23	47.69	3377.54
	4/4/02	3425.23	47.81	3377.42
	9/3/02	3425.23	47.43	3377.80
	12/2/02	3425.23	47.30	3377.93
	1/31/03	3425.23	47.41	3377.82
	3/28/03	3425.23	47.51	3377.72
	5/19/03	3425.23	47.42	3377.81
	9/9/03	3425.23	47.61	3377.62
	12/3/03	3425.23	47.72	3377.51
	3/30/04	3425.23	47.80	3377.43
	6/7/04	3425.23	47.76	3377.47
	9/17/04	3425.23	47.44	3377.79
	11/30/04	3425.23	46.89	3378.34
	4/1/05	3425.23	46.54	3378.69
	5/23/05	3425.23	46.35	3378.88
	1/17/06	3425.23	45.61	3379.62
	6/19/06	3425.23	45.32	3379.91
	4/19/2007	3425.23	45.09	3380.14
	3/24/08	3425.23	45.20	3380.03
	3/11/09	3425.23	45.73	3379.50
	3/1/10	3425.23	45.89	3379.34
	8/2/10	3425.23	45.93	3379.30
	5/3/11	3425.23	45.67	3379.56
	11/2/11	3425.23	45.63	3379.60
	5/4/12	3425.23	46.01	3379.22
	10/23/12	3425.23	46.29	3378.94
	5/2/13	3425.23	46.51	3378.72
	10/29/13	3425.23	46.64	3378.59
	5/5/14	3425.23	46.67	3378.56
	11/3/14	3425.23	46.29	3378.94
MW043	5/7/02	3423.57	47.61	3375.96
	9/3/02	3423.57	47.53	3376.04
	12/2/02	3423.57	47.42	3376.15
	1/30/03	3423.57	47.38	3376.19
	3/28/03	3423.57	47.44	3376.13
	5/19/03	3423.57	47.50	3376.07
	9/8/03	3423.57	47.64	3375.93
	12/2/03	3423.57	47.55	3376.02
	3/30/04	3423.57	47.84	3375.73
	6/7/04	3423.57	47.82	3375.75
	9/14/04	3423.57	47.44	3376.13
	11/29/04	3423.57	46.55	3377.02
	3/31/05	3423.57	46.49	3377.08
	5/23/05	3423.57	46.51	3377.06
	1/17/06	3423.57	44.92	3378.65
	6/14/06	3423.57	45.45	3378.12
	4/9/07	3423.57	45.35	3378.22
	3/18/08	3423.57	45.36	3378.21
	3/10/09	3423.57	45.85	3377.72
	3/1/10	3423.57	45.94	3377.63
	7/30/10	3423.57	46.01	3377.56
	5/4/11	3423.57	45.58	3377.99
	11/1/11	3423.57	46.20	3377.37
	5/2/12	3423.57	46.24	3377.33
	10/24/12	3423.57	46.58	3376.99
	4/29/13	3423.57	46.73	3376.84
	10/29/13	3423.57	47.06	3376.51
	5/5/14	3423.57	47.01	3376.56
	11/3/14	3423.57	46.60	3376.97

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW044	4/4/02	3420.41	43.86	3376.55
	9/3/02	3420.41	43.52	3376.89
	12/2/02	3420.41	43.47	3376.94
	1/30/03	3420.41	43.68	3376.73
	3/28/03	3420.41	43.49	3376.92
	5/19/03	3420.41	43.58	3376.83
	9/8/03	3420.41	43.69	3376.72
	12/2/03	3420.41	43.65	3376.76
	3/30/04	3420.41	43.90	3376.51
	6/7/04	3420.41	43.88	3376.53
	9/16/04	3420.41	43.49	3376.92
	11/29/04	3420.41	43.06	3377.35
	3/31/05	3420.41	42.59	3377.82
	5/23/05	3420.41	42.55	3377.86
	1/17/06	3420.41	41.72	3378.69
	6/19/06	3420.41	41.59	3378.82
	4/6/07	3420.41	41.45	3378.96
	3/19/08	3420.41	41.35	3379.06
	3/11/09	3420.41	41.89	3378.52
	3/1/10	3420.41	41.54	3378.87
	8/2/10	3420.41	41.96	3378.45
	5/4/11	3420.41	41.79	3378.62
	11/1/11	3420.41	42.05	3378.36
	5/1/12	NG	NG	NG
	10/24/12	3420.41	42.56	3377.85
	4/30/13	3420.41	42.70	3377.71
	10/28/13	3420.41	43.05	3377.36
	5/5/14	3420.41	43.01	3377.40
	11/3/14	3420.41	42.55	3377.86
MW045	4/4/02	3425.53	48.57	3376.96
	9/3/02	3425.53	48.15	3377.38
	12/2/02	3425.53	47.94	3377.59
	1/31/03	3425.53	48.08	3377.45
	3/28/03	3425.53	48.31	3377.22
	5/19/03	3425.53	48.11	3377.42
	9/9/03	3425.53	48.34	3377.19
	12/3/03	3425.53	48.37	3377.16
	3/30/04	3425.53	48.44	3377.09
	6/7/04	3425.53	48.61	3376.92
	9/17/04	3425.53	48.10	3377.43
	11/30/04	3425.53	47.60	3377.93
	3/31/05	3425.53	47.05	3378.48
	5/23/05	3425.53	46.98	3378.55
	1/17/06	3425.53	46.36	3379.17
	6/19/06	3425.53	45.87	3379.66
	4/2/07	3425.53	45.66	3379.87
	4/17/07	3425.53	45.73	3379.80
	3/18/08	3425.53	45.74	3379.79
	3/10/09	3425.53	46.16	3379.37
	3/1/10	3425.53	46.40	3379.13
	8/2/10	3425.53	46.36	3379.17
	5/6/11	3420.41	46.05	3374.36
	11/2/11	3425.53	45.92	3379.61
	5/3/12	3425.53	46.53	3379.00
	10/24/12	3425.53	46.85	3378.68
	5/2/13	3425.53	46.93	3378.60
	10/29/13	3425.53	47.07	3378.46
	5/5/14	3425.53	47.09	3378.44
	11/4/14	3425.53	46.84	3378.69

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW046	4/4/02	3426.81	49.93	3376.88
	9/3/02	3426.81	49.37	3377.44
	12/2/02	3426.81	49.17	3377.64
	1/31/03	3426.81	49.33	3377.48
	3/28/03	3426.81	49.66	3377.15
	5/19/03	3426.81	49.35	3377.46
	9/9/03	3426.81	49.67	3377.14
	12/3/03	3426.81	49.75	3377.06
	3/30/04	3426.81	49.82	3376.99
	6/7/04	3426.81	50.05	3376.76
	9/17/04	3426.81	49.33	3377.48
	11/30/04	3426.81	48.99	3377.82
	3/31/05	3426.81	48.36	3378.45
	5/23/05	3426.81	48.18	3378.63
	1/17/06	3426.81	47.34	3379.47
	6/19/06	3426.81	46.87	3379.94
	4/19/07	3426.81	46.75	3380.06
	3/18/08	3426.81	46.84	3379.97
	3/11/09	3426.81	47.33	3379.48
	3/1/10	3426.81	47.44	3379.37
	8/2/10	3426.81	46.45	3380.36
	5/6/11	3426.81	47.20	3379.61
	11/2/11	3426.81	46.98	3379.83
	5/3/12	3426.81	47.53	3379.28
	10/24/12	3426.81	47.79	3379.02
MW047	5/2/13	3426.81	47.98	3378.83
	10/29/13	3426.81	48.06	3378.75
	5/5/14	3426.81	48.07	3378.74
	11/4/14	3426.81	47.85	3378.96
	4/4/02	3427.65	49.54	3378.11
	9/3/02	3427.65	49.40	3378.25
	12/2/02	3427.65	49.16	3378.49
	1/31/03	3427.65	49.22	3378.43
	3/28/03	3427.65	49.29	3378.36
	5/19/03	3427.65	49.21	3378.44
	9/9/03	3427.65	49.36	3378.29
	12/3/03	3427.65	49.38	3378.27
	3/30/04	3427.65	49.50	3378.15
	6/7/04	3427.65	49.43	3378.22
	9/17/04	3427.65	49.20	3378.45
	11/30/04	3427.65	48.66	3378.99
	3/31/05	3427.65	47.98	3379.67
	5/23/05	3427.65	47.90	3379.75
	1/17/06	3427.65	47.38	3380.27
	6/19/06	3427.65	47.12	3380.53
	4/16/07	3427.65	46.73	3380.92
	3/19/08	3427.65	46.84	3380.81
	3/11/09	NG	NG	NG
	3/1/10	3427.65	47.50	3380.15
	8/3/10	3427.65	47.58	3380.07
	5/6/11	3427.65	47.33	3380.32
	11/1/11	3427.65	47.51	3380.14
	5/22/12	3427.65	47.65	3380.00
	10/23/12	3427.65	47.90	3379.75
	5/2/13	3427.65	48.10	3379.55
	10/29/13	3427.65	48.22	3379.43
	11/4/13	3427.65	47.80	3379.85
	5/5/14	3427.65	48.26	3379.39

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW058	1/31/03	3437.13	58.49	3378.64
	3/27/03	3437.13	58.49	3378.64
	5/19/03	3437.13	58.52	3378.61
	9/9/03	3437.13	58.57	3378.56
	12/2/03	3437.13	58.44	3378.69
	3/30/04	3437.13	58.51	3378.62
	6/7/04	3437.13	58.50	3378.63
	9/16/04	3437.13	58.42	3378.71
	11/29/04	3437.13	58.43	3378.70
	3/31/05	3437.13	59.08	3378.05
	5/23/05	3437.13	57.84	3379.29
	1/17/06	3437.13	57.43	3379.70
	6/14/06	3437.13	57.10	3380.03
	4/23/07	3437.13	56.20	3380.93
	9/13/07	3437.13	56.58	3380.55
	3/19/08	3437.13	56.46	3380.67
	8/4/08	3437.13	56.47	3380.66
	3/11/09	3437.13	56.52	3380.61
	7/29/09	3437.13	56.56	3380.57
	3/1/10	3437.13	56.65	3380.48
	8/2/10	3437.13	56.64	3380.49
	5/5/11	3437.13	56.50	3380.63
	11/1/11	3437.13	56.51	3380.62
	5/1/12	3437.13	56.50	3380.63
	10/24/12	3437.13	56.57	3380.56
	5/1/13	3437.13	56.80	3380.33
	10/28/13	3437.13	56.83	3380.30
	5/5/14	3437.13	56.89	3380.24
	11/3/14	3437.13	56.90	3380.23
MW059	1/31/03	3442.22	63.28	3378.94
	3/28/03	3442.22	63.23	3378.99
	5/19/03	3442.22	63.15	3379.07
	9/9/03	3442.22	63.15	3379.07
	12/2/03	3442.22	63.05	3379.17
	3/30/04	3442.22	63.06	3379.16
	6/7/04	3442.22	63.00	3379.22
	9/17/04	3442.22	63.03	3379.19
	11/30/04	3442.22	62.96	3379.26
	3/31/05	3442.22	62.75	3379.47
	5/23/05	3442.22	62.51	3379.71
	1/17/06	3442.22	62.28	3379.94
	6/14/06	3442.22	61.96	3380.26
	Date Missing	3442.22	61.61	3380.61
	9/11/07	3442.22	61.39	3380.83
	3/19/08	3442.22	61.30	3380.92
	8/4/08	3442.22	61.20	3381.02
	3/11/09	3442.22	61.33	3380.89
	7/29/09	3442.22	61.32	3380.90
	3/1/10	3442.22	61.40	3380.82
	8/3/10	3442.22	61.38	3380.84
	5/4/11	3442.22	61.27	3380.95
	11/1/11	3442.24	61.24	3381.00
	5/4/12	3442.24	61.32	3380.92
	10/25/12	3442.24	61.40	3380.84
	5/1/13	3442.24	61.48	3380.76
	10/28/13	3442.24	61.47	3380.77
	5/5/14	3442.24	61.55	3380.69
	11/3/14	3442.24	61.60	3380.64

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW060	1/8/03	3437.70	58.62	3379.08
	1/30/03	3437.70	58.38	3379.32
	3/28/03	3437.70	58.45	3379.25
	5/19/03	3437.70	58.39	3379.31
	9/9/03	3437.70	58.34	3379.36
	12/2/03	3437.70	58.15	3379.55
	3/30/04	3437.70	58.20	3379.50
	6/7/04	3437.70	58.19	3379.51
	9/16/04	3437.70	58.12	3379.58
	11/29/04	3437.70	58.11	3379.59
	3/31/05	3437.70	57.79	3379.91
	5/23/05	3437.70	57.63	3380.07
	1/17/06	3437.70	57.33	3380.37
	6/16/06	3437.70	57.13	3380.57
	3/28/07	3437.70	56.80	3380.90
	9/13/07	3437.70	56.57	3381.13
	3/18/08	3437.70	56.46	3381.24
	8/4/08	3437.70	56.57	3381.13
	3/10/09	3437.70	66.55	3371.15
	7/28/09	3437.70	56.60	3381.10
	3/1/10	3437.70	56.73	3380.97
	8/2/10	3437.70	56.74	3380.96
	5/4/11	3437.70	56.57	3381.13
	11/1/11	3437.70	56.50	3381.20
	5/1/12	3437.70	56.59	3381.11
	10/24/12	3437.70	56.62	3381.08
	5/1/13	3437.70	56.82	3380.88
	10/28/13	3437.70	56.80	3380.90
	5/5/14	3437.70	56.88	3380.82
	11/3/14	3437.70	56.88	3380.82
MW061	1/8/03	3439.86	60.23	3379.63
	3/27/03	3439.86	60.20	3379.66
	5/19/03	3439.86	60.26	3379.60
	9/9/03	3439.86	60.18	3379.68
	12/2/03	3439.86	60.00	3379.86
	3/30/04	3439.86	60.12	3379.74
	6/7/04	3439.86	60.06	3379.80
	9/16/04	3439.86	59.93	3379.93
	11/29/04	3439.86	59.84	3380.02
	3/31/05	3439.86	59.52	3380.34
	5/23/05	3439.86	59.32	3380.54
	1/17/06	3439.86	58.90	3380.96
	6/15/06	3439.86	58.81	3381.05
	4/18/07	3439.86	58.54	3381.32
	9/20/07	3439.86	58.39	3381.47
	3/18/08	3439.86	58.34	3381.52
	8/4/08	3439.86	58.55	3381.31
	3/11/09	3439.86	58.59	3381.27
	7/29/09	3439.86	58.65	3381.21
	3/1/10	3439.86	58.77	3381.09
	8/3/10	3439.86	58.72	3381.14
	5/3/11	3439.86	58.55	3381.31
	11/1/11	3439.86	58.48	3381.38
	5/1/12	3439.86	58.67	3381.19
	10/24/12	3439.86	58.72	3381.14
	4/30/13	3439.86	58.81	3381.05
	10/28/13	3439.86	58.89	3380.97
	5/5/14	3439.86	58.95	3380.91
	11/3/14	3439.86	58.90	3380.96

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW068	3/27/03	3448.08	67.61	3380.47
	5/19/03	3448.08	68.70	3379.38
	9/9/03	3448.08	68.67	3379.41
	12/2/03	3448.08	68.51	3379.57
	3/30/04	3448.08	68.52	3379.56
	6/7/04	3448.08	68.45	3379.63
	9/16/04	3448.18	68.30	3379.88
	11/29/04	3448.08	68.19	3379.89
	3/31/05	3448.08	67.90	3380.18
	5/23/05	3448.08	67.78	3380.30
	1/17/06	3448.08	67.40	3380.68
	6/14/06	3448.08	67.30	3380.78
	3/22/07	3448.08	67.04	3381.04
	9/6/07	3448.08	66.78	3381.30
	3/18/08	3448.08	66.80	3381.28
	8/4/08	3448.08	67.09	3380.99
	3/10/09	3448.08	66.94	3381.14
	7/28/09	3448.08	67.02	3381.06
	3/1/10	3448.08	67.12	3380.96
	8/3/10	3448.08	67.99	3380.09
	5/3/11	3448.08	66.87	3381.21
	11/1/11	3448.08	66.85	3381.23
	5/2/12	3448.08	67.04	3381.04
	10/24/12	3448.08	67.03	3381.05
	4/30/13	3448.08	67.11	3380.97
	10/28/13	3448.08	67.12	3380.96
	5/5/14	3448.08	67.20	3380.88
	11/3/14	3448.08	67.09	3380.99
MW069	3/27/03	3444.07	64.89	3379.18
	5/19/03	3444.07	64.83	3379.24
	9/9/03	3444.07	64.79	3379.28
	12/2/03	3444.07	64.63	3379.44
	3/30/04	3444.07	64.65	3379.42
	6/7/04	3444.07	64.63	3379.44
	9/16/04	3444.07	64.60	3379.47
	11/29/04	3444.07	64.51	3379.56
	3/31/05	3444.07	64.24	3379.83
	5/23/05	3444.07	64.08	3379.99
	1/17/06	3444.07	63.82	3380.25
	6/14/06	3444.07	63.66	3380.41
	3/22/09	3444.07	63.39	3380.68
	9/6/07	3444.07	63.16	3380.91
	3/18/08	3444.07	63.17	3380.90
	8/4/08	3444.07	63.10	3380.97
	3/10/09	3444.07	62.99	3381.08
	7/28/09	3444.07	63.09	3380.98
	3/1/10	3444.07	63.17	3380.90
	8/2/10	3444.07	63.20	3380.87
	5/4/11	3444.07	63.82	3380.25
	11/1/11	3444.07	62.95	3381.12
	5/1/12	3444.07	63.04	3381.03
	11/1/12	NG	NG	NG
	5/1/13	3444.07	63.21	3380.86
	10/28/13	3444.07	63.16	3380.91
	5/5/14	3444.07	63.26	3380.81
	11/3/14	3444.07	63.31	3380.76

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW070	3/27/03	3439.68	61.00	3378.68
	5/19/03	3439.68	61.03	3378.65
	9/9/03	3439.68	61.02	3378.66
	12/2/03	3439.68	60.93	3378.75
	3/30/04	3439.68	61.02	3378.66
	6/7/04	3439.68	60.94	3378.74
	9/16/04	3439.68	60.90	3378.78
	11/29/04	3439.68	60.91	3378.77
	3/31/05	3439.68	60.72	3378.96
	5/23/05	3439.68	60.52	3379.16
	1/17/06	3439.68	60.20	3379.48
	6/14/06	3439.68	59.88	3379.80
	3/29/07	3439.68	59.47	3380.21
	9/10/07	3439.68	59.25	3380.43
	3/18/08	3439.68	59.18	3380.50
	8/4/08	3439.68	59.09	3380.59
	3/10/09	3439.68	59.11	3380.57
	7/28/09	3439.68	59.10	3380.58
	3/1/10	3439.68	59.15	3380.53
	8/2/10	3439.68	59.13	3380.55
	5/4/11	3439.68	59.06	3380.62
	11/1/11	3439.68	59.09	3380.59
	5/1/12	3439.68	59.00	3380.68
	10/24/12	3439.68	59.02	3380.66
	5/1/13	3439.68	59.28	3380.40
	10/28/13	3439.68	59.24	3380.44
	5/5/14	3439.68	59.29	3380.39
	11/3/14	3439.68	59.36	3380.32
MW094	10/28/13	3443.15	62.07	3381.08
	5/5/14	3443.15	62.26	3380.89
	11/3/14	3443.15	62.18	3380.97
MW095	10/29/13	3436.13	55.52	3380.61
	5/5/14	3436.13	55.50	3380.63
	11/6/14	3436.13	55.52	3380.61
MW096P	5/5/14		49.80	
	11/3/14		49.30	
MW097P	5/5/14		48.26	
	11/4/14		47.70	
MW088M	9/24/04	3430.63	50.65	3379.98
	3/31/05	3430.63	50.61	3380.02
	5/23/05	3430.63	50.25	3380.38
	1/16/06	3430.63	49.90	3380.73
	6/19/06	3430.63	49.67	3380.96
	4/5/07	3430.63	49.25	3381.38
	3/21/08	3430.63	49.00	3381.63
	3/11/09	3430.63	49.30	3381.33
	3/1/10	3430.63	49.52	3381.11
	8/3/10	3430.63	48.77	3381.86
	5/3/11	3430.63	49.60	3381.03
	11/2/11	3430.27	49.57	3380.70
	5/3/12	3430.27	49.72	3380.55
	10/24/12	3430.27	49.81	3380.46
	5/1/13	3430.27	49.94	3380.33
	10/29/13	3430.27	50.01	3380.26
	5/5/14	3430.27	50.08	3380.19
	11/3/14	3430.27	No Data	No Data

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
RW002	1/21/02	3431.66	52.98	3378.68
	4/4/02	3431.66	53.05	3378.61
	9/3/02	3431.66	52.95	3378.71
	12/2/02	3431.66	52.81	3378.85
	1/30/03	3431.66	52.75	3378.91
	3/28/03	3431.66	52.76	3378.90
	5/19/03	3431.66	52.73	3378.93
	9/9/03	3431.66	52.72	3378.94
	12/3/03	3431.66	52.66	3379.00
	3/30/04	3431.66	52.77	3378.89
	6/7/04	3431.66	52.77	3378.89
	11/29/04	3431.66	52.34	3379.32
	3/31/05	3431.66	51.05	3380.61
	5/23/05	3431.66	51.77	3379.89
	1/16/06	3431.66	51.35	3380.31
	6/19/06	3431.66	51.11	3380.55
	3/29/07	3431.66	50.60	3381.06
	3/24/08	3431.66	50.45	3381.21
	3/11/09	3431.66	50.70	3380.96
	3/1/10	3431.66	50.94	3380.72
	8/3/10	3431.66	50.98	3380.68
	5/5/11	3431.66	50.80	3380.86
	11/2/11	3431.66	48.72	3382.94
	5/3/12	3431.66	50.99	3380.67
	10/23/12	3431.66	51.15	3380.51
	5/2/13	3431.66	51.34	3380.32
Plugged and Abandoned				
RW003	1/21/02	3429.82	50.75	3379.07
	4/4/02	3429.82	50.78	3379.04
	9/3/02	3429.82	50.75	3379.07
	12/2/02	3429.82	50.56	3379.26
	1/30/03	3429.82	50.45	3379.37
	3/28/03	3429.82	50.55	3379.27
	5/19/03	3429.82	50.49	3379.33
	9/9/03	3429.82	50.40	3379.42
	12/3/03	3429.82	50.34	3379.48
	3/30/04	3429.82	50.53	3379.29
	6/7/04	3429.82	50.43	3379.39
	11/30/04	3429.82	50.13	3379.69
	3/31/05	3429.82	49.90	3379.92
	5/23/05	3429.82	49.55	3380.27
	1/16/06	3429.82	49.20	3380.62
	6/19/06	3429.82	48.95	3380.87
	4/2/07	3429.82	48.53	3381.29
	3/19/08	3429.82	48.30	3381.52
	3/11/09	3429.82	48.58	3381.24
	3/1/10	3429.82	48.86	3380.96
	8/3/10	3429.82	48.92	3380.90
	5/5/11	3429.82	48.78	3381.04
	11/2/11	3429.82	49.13	3380.69
	5/3/12	3429.82	48.92	3380.90
	10/24/12	3429.82	48.96	3380.86
	5/1/13	3429.82	49.12	3380.70
	10/29/13	3429.82	49.18	3380.64
	5/5/14	3429.82	49.27	3380.55
	11/3/14	3429.82	49.12	3380.70

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
IW001	8/1/02	3431.91	53.19	3378.72
	12/2/02	3431.91	52.90	3379.01
	1/30/03	3431.91	52.85	3379.06
	3/28/03	3431.91	52.94	3378.97
	5/19/03	3431.91	50.91	3381.00
	9/9/03	3431.91	52.62	3379.29
	12/3/03	3431.91	53.03	3378.88
	3/30/04	3431.91	52.98	3378.93
	6/7/04	3431.91	53.93	3377.98
	11/30/04	3431.91	53.04	3378.87
	3/31/05	3431.91	53.62	3378.29
	5/23/05	3431.91	52.58	3379.33
	1/18/06	3431.91	49.50	3382.41
	6/19/06	3431.91	51.28	3380.63
	4/16/07	3431.91	48.85	3383.06
	3/24/08	3431.91	50.70	3381.21
	3/10/09	3431.91	48.98	3382.93
	3/1/10	3431.91	49.23	3382.68
	8/3/10	3431.91	49.23	3382.68
	5/5/11	3431.91	49.05	3382.86
	11/2/11	3431.91	47.28	3384.63
	5/3/12	3431.91	49.25	3382.66
	10/23/12	3431.91	49.35	3382.56
	5/2/13	3431.91	50.51	3381.40
	10/29/13	3431.91	49.54	3382.37
	5/5/14	3431.91	49.64	3382.27
	11/3/14	3431.91	49.46	3382.45
IW002	9/3/02	3430.33	53.14	3377.19
	12/2/02	3430.33	50.99	3379.34
	1/30/03	3430.33	50.88	3379.45
	3/28/03	3430.33	50.99	3379.34
	5/19/03	3430.33	50.88	3379.45
	9/9/03	3430.33	51.46	3378.87
	12/3/03	3430.33	50.94	3379.39
	3/30/04	3431.00	51.62	3379.38
	6/7/04	3431.00	51.61	3379.39
	11/30/04	3431.00	51.34	3379.66
	3/31/05	3431.00	51.54	3379.46
	5/23/05	3431.00	51.36	3379.64
	1/18/06	3431.00	47.48	3383.52
	6/19/06	3431.00	48.71	3382.29
	4/11/07	3431.00	47.05	3383.95
	3/21/08	3431.00	46.19	3384.81
	3/10/09	3431.00	46.99	3384.01
	3/1/10	3431.00	47.31	3383.69
	8/3/10	3431.00	46.30	3384.70
	5/5/11	3431.00	46.98	3384.02
	11/2/11	3430.33	50.86	3379.47
	5/3/12	3430.33	47.35	3382.98
	10/24/12	3430.33	47.42	3382.91
	5/1/13	3430.33	47.60	3382.73
	10/29/13	3430.33	44.41	3385.92
	5/5/14	3430.33	47.69	3382.64
	11/3/14	3430.33	48.78	3381.55

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW002A	1/7/03	3432.31	54.03	3378.28
	1/30/03	3432.31	53.89	3378.42
	3/28/03	3432.31	54.11	3378.20
	5/19/03	3432.31	53.99	3378.32
	9/9/03	3432.31	54.12	3378.19
	12/2/03	3432.31	53.97	3378.34
	3/30/04	3432.31	54.20	3378.11
	6/7/04	3432.31	54.21	3378.10
	9/17/04	3432.31	53.93	3378.38
	11/30/04	3432.31	53.74	3378.57
	3/31/05	3432.31	53.36	3378.95
	5/23/05	3432.31	53.08	3379.23
	1/17/06	3432.31	52.56	3379.75
	6/19/06	3432.31	52.18	3380.13
	4/12/07	3432.31	51.80	3380.51
	9/1/07	3432.31	NS	NS
	3/19/08	3432.31	51.72	3380.59
	3/11/09	3432.31	51.89	3380.42
	3/1/10	3432.31	52.01	3380.30
	8/2/10	3432.31	52.01	3380.30
	5/6/11	3432.31	51.84	3380.47
	11/4/11	3432.30	51.86	3380.44
	5/3/12	3432.30	51.95	3380.35
	10/24/12	3432.30	52.10	3380.20
	5/2/13	3432.30	52.30	3380.00
	10/29/13	3432.30	52.31	3379.99
	5/5/14	3432.30	52.37	3379.93
	11/4/14	3432.30	52.30	3380.00
MW004A	12/18/97	3423.57	48.00	3375.57
	11/16/99	3423.57	*47.00	3376.57
	5/15/01	3423.57	46.31	3377.26
	8/23/01	3423.57	46.44	3377.13
	1/21/02	3423.57	46.44	3377.13
	4/4/02	3423.57	46.52	3377.05
	9/3/02	3423.57	46.49	3377.08
	12/2/02	3423.57	46.10	3377.47
	1/31/03	3423.57	46.16	3377.41
	3/28/03	3423.57	46.20	3377.37
	5/19/03	3423.57	46.21	3377.36
	9/9/03	3423.57	46.36	3377.21
	12/3/03	3423.57	46.38	3377.19
	3/30/04	3423.57	46.45	3377.12
	6/7/04	3423.57	46.66	3376.91
	9/17/04	3423.57	46.18	3377.39
	11/30/04	3423.57	45.62	3377.95
	3/31/05	3423.57	45.61	3377.96
	5/23/05	3423.57	45.19	3378.38
	1/18/06	3423.57	44.39	3379.18
	6/19/06	3423.57	44.21	3379.36
	4/16/07	3423.57	43.95	3379.62
	3/19/08	3423.57	43.98	3379.59
	3/11/09	3423.57	44.54	3379.03
	3/1/10	3423.57	44.71	3378.86
	8/2/10	3423.57	44.75	3378.82
	5/6/11	3423.57	44.50	3379.07
	11/4/11	3423.57	44.74	3378.83
	5/22/12	3423.57	44.85	3378.72
	10/23/12	3423.57	45.25	3378.32
	5/1/13	3423.57	45.35	3378.22
	10/29/13	3423.57	45.57	3378.00
	5/5/14	3423.57	45.60	3377.97
	11/3/14	3423.57	45.11	3378.46

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW007A	12/18/97	3428.13	49.37	3378.76
	11/16/99	3428.13	*50.22	3377.91
	5/15/01	3428.13	49.38	3378.75
	8/23/01	3428.13	49.72	3378.41
	1/21/02	3428.13	49.64	3378.49
	4/4/02	3428.13	49.74	3378.39
	9/3/02	3428.13	49.60	3378.53
	12/2/02	3428.13	49.32	3378.81
	1/31/03	3428.13	49.43	3378.70
	3/28/03	3428.13	49.43	3378.70
	5/19/03	3428.13	49.37	3378.76
	9/9/03	3428.13	49.43	3378.70
	12/3/03	3428.13	49.49	3378.64
	3/30/04	3428.13	49.60	3378.53
	6/7/04	3428.13	49.53	3378.60
	9/17/04	3428.13	49.22	3378.91
	1/17/06	3428.13	47.66	3380.47
	6/19/06	3428.13	47.50	3380.63
	4/16/07	3428.13	47.11	3381.02
	3/19/08	3428.13	47.12	3381.01
	3/11/09	3428.13	47.64	3380.49
	3/1/10	3428.13	47.85	3380.28
	8/3/10	3428.13	47.89	3380.24
	5/6/11	3428.13	47.68	3380.45
	11/4/11	3428.13	47.63	3380.50
	5/4/12	3428.13	48.02	3380.11
	10/23/12	3428.13	48.23	3379.90
	5/2/13	3428.13	48.44	3379.69
	10/29/13	3428.13	48.51	3379.62
	5/5/14	3428.13	48.56	3379.57
	11/4/14	3428.13	47.96	3380.17
MW008A	12/18/97	3430.01	50.81	3379.20
	11/16/99	3430.01	*52.16	3377.85
	5/15/01	3430.01	51.34	3378.67
	8/23/01	3430.01	51.64	3378.37
	1/21/02	3430.01	51.49	3378.52
	4/4/02	3430.01	51.53	3378.48
	9/3/02	3430.01	51.41	3378.60
	12/2/02	3430.01	51.16	3378.85
	1/31/03	3430.01	51.24	3378.77
	3/28/03	3430.01	51.25	3378.76
	5/19/03	3430.01	51.21	3378.80
	9/9/03	3430.01	51.26	3378.75
	12/3/03	3430.01	51.21	3378.80
	3/30/04	3430.01	51.29	3378.72
	6/7/04	3430.01	51.32	3378.69
	11/30/04	3430.01	50.68	3379.33
	3/31/05	3430.01	50.24	3379.77
	5/23/05	3430.01	50.12	3379.89
	1/17/06	3430.01	49.58	3380.43
	6/19/06	3430.01	49.41	3380.60
	4/3/07	3430.01	48.48	3381.53
	3/24/08	3430.01	49.12	3380.89
	3/11/09	3430.01	49.18	3380.83
	3/1/10	3430.01	49.57	3380.44
	8/3/10	3430.01	49.56	3380.45
	5/6/11	3430.01	49.40	3380.61
	11/4/11	3430.01	49.24	3380.77
	5/4/12	3430.01	49.62	3380.39
	10/23/12	3430.01	49.59	3380.42
	5/2/13	3430.01	49.95	3380.06
	10/29/13	3430.01	49.96	3380.05
	5/5/14	3430.01	50.01	3380.00
	11/4/14	3430.01	49.80	3380.21

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW009A	12/18/97	3427.48	49.03	3378.45
	11/16/99	3427.48	*50.22	3377.26
	5/15/01	3427.48	49.42	3378.06
	8/23/01	3427.48	49.64	3377.84
	1/21/02	3427.48	49.68	3377.80
	4/4/02	3427.48	49.78	3377.70
	9/3/02	3427.48	49.55	3377.93
	12/2/02	3427.48	49.40	3378.08
	1/31/03	3427.48	49.45	3378.03
	3/28/03	3427.48	49.44	3378.04
	5/19/03	3427.48	49.43	3378.05
	9/9/03	3427.48	49.52	3377.96
	12/3/03	3427.48	49.63	3377.85
	3/30/04	3427.48	49.73	3377.75
	6/7/04	3427.48	49.65	3377.83
	9/17/04	3427.48	49.48	3378.00
	11/30/04	3427.48	48.91	3378.57
	3/31/05	3427.48	48.42	3379.06
	5/23/05	3427.48	48.33	3379.15
	1/17/06	3427.48	47.73	3379.75
	6/19/06	3427.48	47.52	3379.96
	4/4/07	3427.48	47.31	3380.17
	3/19/08	3427.48	47.29	3380.19
	3/11/09	3427.48	47.73	3379.75
	3/1/10	3427.48	47.96	3379.52
	8/2/10	3427.48	47.97	3379.51
	5/6/11	3427.48	47.81	3379.67
	11/4/11	3427.48	48.02	3379.46
	5/3/12	3427.48	48.16	3379.32
	10/23/12	3427.48	48.40	3379.08
	5/1/13	3427.48	48.58	3378.90
	10/29/13	3427.48	48.76	3378.72
	5/5/14	3427.48	48.81	3378.67
	11/3/14	3427.48	48.31	3379.17
MW011A	12/18/97	3431.77	51.49	3380.28
	11/16/99	3431.77	*53.49	3378.28
	5/15/01	3431.77	53.07	3378.70
	8/23/01	3431.77	53.20	3378.57
	1/21/02	3431.77	53.04	3378.73
	4/4/02	3431.77	53.13	3378.64
	9/3/02	3431.77	53.01	3378.76
	12/2/02	3431.77	52.76	3379.01
	1/30/03	3431.77	52.72	3379.05
	3/28/03	3431.77	52.85	3378.92
	5/19/03	3431.77	52.78	3378.99
	9/9/03	3431.77	52.82	3378.95
	12/3/03	3431.77	52.83	3378.94
	3/30/04	3431.77	53.04	3378.73
	6/7/04	3431.77	53.03	3378.74
	11/30/04	3431.77	53.03	3378.74
	3/31/05	3431.77	52.18	3379.59
	5/23/05	3431.77	51.94	3379.83
	1/16/06	3431.77	51.45	3380.32
	6/19/06	3431.77	51.25	3380.52
	3/29/07	3431.77	50.88	3380.89
	3/24/08	3431.77	50.69	3381.08
	3/11/09	3431.77	50.94	3380.83
	3/1/10	3431.77	51.17	3380.60
	8/3/10	3431.77	51.21	3380.56
	5/6/11	3431.77	51.02	3380.75
	11/4/11	3431.77	51.30	3380.47
	5/3/12	3431.77	51.21	3380.56
	10/23/12	3431.77	51.36	3380.41
	5/1/13	3431.77	51.60	3380.17
	10/29/13	3431.77	51.56	3380.21
	5/5/14	3431.77	51.65	3380.12
	11/3/14	3431.77	51.41	3380.36

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW012A	12/18/97	3429.92	49.73	3380.19
	11/16/99	3429.92	*51.50	3378.42
	5/15/01	3429.92	50.83	3379.09
	8/23/01	3429.92	50.89	3379.03
	1/21/02	3429.92	50.84	3379.08
	4/5/02	3429.92	50.90	3379.02
	9/3/02	3429.92	50.80	3379.12
	12/2/02	3429.92	50.65	3379.27
	1/30/03	3429.92	50.55	3379.37
	3/28/03	3429.92	50.66	3379.26
	5/19/03	3429.92	50.63	3379.29
	9/9/03	3429.92	50.52	3379.40
	12/3/03	3429.92	50.51	3379.41
	3/30/04	3429.92	50.67	3379.25
	6/7/04	3429.92	50.52	3379.40
	11/30/04	3429.92	50.28	3379.64
	3/31/05	3429.92	49.97	3379.95
	5/23/05	3429.92	49.77	3380.15
	1/16/06	3429.92	49.13	3380.79
	6/19/06	3429.92	49.00	3380.92
	4/2/07	3429.92	48.35	3381.57
	3/21/08	3429.92	48.37	3381.55
	3/11/09	3429.92	48.65	3381.27
	3/1/10	3429.92	48.93	3380.99
	8/3/10	3429.92	48.99	3380.93
	5/6/11	3429.92	48.87	3381.05
	11/4/11	3429.92	48.81	3381.11
	5/3/12	3429.92	49.00	3380.92
	11/1/12	NG	NG	NG
	5/1/13	3429.92	49.22	3380.70
	10/29/13	3429.92	49.31	3380.61
	5/5/14	3429.92	49.39	3380.53
	11/3/14	3429.92	49.22	3380.70
MW013A	12/18/97	3424.25	46.84	3377.41
	11/16/99	3424.25	*45.79	3378.46
	5/15/01	3424.25	45.06	3379.19
	8/23/01	3424.25	45.22	3379.03
	1/21/02	3424.25	45.17	3379.08
	4/5/02	3424.25	45.23	3379.02
	9/3/02	3424.25	45.15	3379.10
	12/2/02	3424.25	44.94	3379.31
	1/30/03	3424.25	44.80	3379.45
	3/28/03	3424.25	44.96	3379.29
	5/19/03	3424.25	44.91	3379.34
	9/9/03	3424.25	44.89	3379.36
	12/2/03	3424.25	44.78	3379.47
	3/30/04	3424.25	45.01	3379.24
	6/7/04	3424.25	44.96	3379.29
	9/17/04	3424.25	44.80	3379.45
	11/30/04	3424.25	44.56	3379.69
	3/31/05	3424.25	44.06	3380.19
	5/23/05	3424.25	43.82	3380.43
	1/16/06	3424.25	43.42	3380.83
	6/16/06	3424.25	43.19	3381.06
	4/16/07	3424.25	42.81	3381.44
	9/20/07	3424.25	42.62	3381.63
	3/19/08	3424.25	42.68	3381.57
	8/4/08	3424.25	42.44	3381.81
	3/10/09	3424.25	43.05	3381.20
	7/29/09	3424.25	43.30	3380.95
	3/1/10	3424.25	43.39	3380.86
	8/2/10	3424.25	43.40	3380.85
	5/3/11	3424.25	33.28	3390.97
	11/2/11	3424.25	43.29	3380.96
	5/1/12	3424.25	43.36	3380.89
	10/24/12	3424.25	43.60	3380.65
	5/1/13	3424.25	43.75	3380.50
	10/29/13	3424.25	43.89	3380.36
	5/5/14	3424.25	43.91	3380.34
	11/3/14	3424.25	43.60	3380.65

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW014A	12/18/97	3423.93	45.93	3378.00
	11/16/99	3423.93	44.89	3379.01
	5/15/01	3423.93	44.40	3379.53
	8/23/01	3423.93	44.27	3379.66
	1/21/02	3423.93	44.25	3379.68
	4/5/02	3423.93	44.37	3379.56
	9/3/02	3423.93	44.20	3379.73
	12/2/02	3423.93	43.99	3379.94
	1/30/03	3423.93	43.95	3379.98
	3/28/03	3423.93	44.16	3379.77
	5/19/03	3423.93	44.01	3379.92
	9/9/03	3423.93	43.93	3380.00
	12/2/03	3423.93	43.96	3379.97
	3/30/04	3423.93	44.05	3379.88
	6/7/04	3423.93	43.98	3379.95
	9/16/04	3423.93	43.89	3380.04
	11/30/04	3423.93	43.71	3380.22
	3/31/05	3423.93	43.30	3380.63
	5/23/05	3423.93	43.04	3380.89
	1/17/06	3423.93	42.65	3381.28
	6/16/06	3423.93	42.49	3381.44
	3/21/07	3423.93	42.15	3381.78
	9/12/07	3423.93	41.92	3382.01
	3/18/08	3423.93	41.31	3382.62
	3/10/09	3423.93	42.33	3381.60
	7/28/09	3423.93	42.65	3381.28
	3/1/10	3423.93	42.67	3381.26
	8/2/10	3423.93	47.70	3376.23
	5/3/11	3423.93	42.86	3381.07
	11/2/11	3423.90	42.65	3381.25
	5/1/12	3423.90	42.62	3381.28
	10/24/12	3423.90	42.81	3381.09
	4/30/13	3423.90	42.91	3380.99
	10/29/13	3423.90	43.00	3380.90
	5/5/14	3423.90	43.12	3380.78
	11/3/14	3423.90	42.93	3380.97
MW015A	12/18/97	3420.55	42.50	3378.05
	11/16/99	3420.55	41.33	3379.22
	5/15/01	3420.55	40.69	3379.86
	8/23/01	3420.55	40.71	3379.84
	1/21/02	3420.55	40.72	3379.83
	4/4/02	3420.55	40.89	3379.66
	9/3/02	3420.55	40.66	3379.89
	12/2/02	3420.55	40.43	3380.12
	1/30/03	3420.55	40.30	3380.25
	3/28/03	3420.55	40.54	3380.01
	5/19/03	3420.55	40.52	3380.03
	9/8/03	3420.55	40.49	3380.06
	12/2/03	3420.55	40.42	3380.13
	3/30/04	3420.55	40.72	3379.83
	6/7/04	3420.55	40.61	3379.94
	9/16/04	3420.55	40.44	3380.11
	11/30/04	3420.55	40.21	3380.34
	3/31/05	3420.55	39.70	3380.85
	5/23/05	3420.55	39.50	3381.05
	1/17/06	3420.55	39.17	3381.38
	6/16/06	3420.55	39.03	3381.52
	3/22/07	3420.55	38.74	3381.81
	9/13/07	3420.55	38.42	3382.13
	3/18/08	3420.55	38.63	3381.92
	8/4/08	3420.55	38.91	3381.64
	3/10/09	3420.55	39.05	3381.50
	7/28/09	3420.55	39.28	3381.27
	3/1/10	3420.55	39.45	3381.10
	8/2/10	3420.55	49.45	3371.10
	5/3/11	3420.55	39.58	3380.97
	11/2/11	3420.55	39.48	3381.07
	5/1/12	3420.55	39.55	3381.00
	10/25/12	3420.55	38.04	3382.51
	4/30/13	3420.55	39.82	3380.73
	10/29/13	3420.55	40.11	3380.44
	5/5/14	3420.55	40.15	3380.40
	11/3/14	3420.55	39.83	3380.72

TABLE 1
SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW016A	12/18/97	3419.92	41.98	3377.94
	11/16/99	3419.92	40.80	3379.12
	5/15/01	3419.92	40.34	3379.58
	8/23/01	3419.92	40.21	3379.71
	1/21/02	3419.92	40.33	3379.59
	4/4/02	3419.92	40.51	3379.41
	9/3/02	3419.92	40.16	3379.76
	12/2/02	3419.92	39.90	3380.02
	1/30/03	3419.92	39.89	3380.03
	3/28/03	3419.92	40.05	3379.87
	5/19/03	3419.92	40.15	3379.77
	9/8/03	3419.92	40.11	3379.81
	12/2/03	3419.92	40.17	3379.75
	3/30/04	3419.92	40.43	3379.49
	6/7/04	3419.92	40.26	3379.66
	9/16/04	3419.92	39.98	3379.94
	11/30/04	3419.92	39.53	3380.39
	3/31/05	3419.92	39.05	3380.87
	5/23/05	3419.92	38.96	3380.96
	1/17/06	3419.92	38.53	3381.39
	6/16/06	3419.92	38.62	3381.30
	3/22/07	3419.92	38.32	3381.60
	9/12/07	3419.92	37.98	3381.94
	3/18/08	3419.92	38.29	3381.63
	8/4/08	3419.92	38.58	3381.34
	3/10/09	3419.92	38.75	3381.17
	7/28/09	3419.92	38.96	3380.96
	3/1/10	3419.92	39.08	3380.84
	8/2/10	3419.92	39.02	3380.90
	5/3/11	3419.92	39.21	3380.71
	11/2/11	3419.92	39.21	3380.71
	5/17/12	3419.92	39.44	3380.48
	10/25/12	3419.92	39.43	3380.49
	5/1/13	3419.92	39.64	3380.28
	10/29/13	3419.92	39.78	3380.14
	5/5/14	3419.92	39.89	3380.03
	11/13/14	3419.92	39.40	3380.52
MW017A	12/18/97	3424.38	46.05	3378.33
	11/16/99	3424.38	45.12	3379.26
	5/15/01	3424.38	44.53	3379.85
	8/23/01	3424.38	44.49	3379.89
	1/21/02	3424.38	44.42	3379.96
	4/4/02	3424.38	44.58	3379.80
	9/3/02	3424.38	44.38	3380.00
	12/2/02	3424.38	44.15	3380.23
	1/30/03	3424.38	44.10	3380.28
	3/28/03	3424.38	44.23	3380.15
	5/19/03	3424.38	44.19	3380.19
	9/8/03	3424.38	44.13	3380.25
	12/2/03	3424.38	44.07	3380.31
	3/30/04	3424.38	44.26	3380.12
	6/7/04	3424.38	44.21	3380.17
	9/16/04	3424.38	44.14	3380.24
	11/30/04	3424.38	43.89	3380.49
	3/31/05	3424.38	43.44	3380.94
	5/23/05	3424.28	43.24	3381.04
	1/17/06	3424.28	42.80	3381.48
	6/16/06	3424.28	42.69	3381.59
	3/21/07	3424.28	42.42	3381.86
	9/13/07	3424.28	42.13	3382.15
	3/21/08	3424.28	42.42	3381.86
	9/13/08	3424.28	42.13	3382.15
Plugged and Abandoned				

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW018A	12/18/97	3416.86	39.16	3377.70
	11/16/99	3416.86	37.52	3379.34
	5/15/01	3416.86	37.62	3379.24
	8/23/01	3416.86	37.55	3379.31
	1/21/02	3416.86	37.62	3379.24
	4/4/02	3416.86	37.89	3378.97
	9/3/02	3416.86	37.03	3379.83
	12/2/02	3416.86	37.01	3379.85
	1/30/03	3416.86	37.12	3379.74
	3/28/03	3416.86	37.38	3379.48
	5/19/03	3416.86	37.54	3379.32
	9/8/03	3416.86	37.51	3379.35
	12/2/03	3416.86	37.65	3379.21
	3/30/04	3416.86	38.01	3378.85
	6/7/04	3416.86	37.56	3379.30
	9/16/04	3416.86	37.20	3379.66
	11/29/04	3416.86	36.11	3380.75
	3/31/05	3416.86	35.99	3380.87
	5/23/05	3416.86	35.86	3381.00
	1/17/06	3416.86	35.78	3381.08
	6/16/06	3416.86	36.01	3380.85
	4/2/07	3416.86	35.65	3381.21
	9/12/07	3416.86	35.51	3381.35
	3/18/08	3416.86	35.88	3380.98
	3/10/09	3416.86	36.29	3380.57
	7/28/09	3416.86	36.49	3380.37
	3/1/10	3416.86	36.40	3380.46
	8/2/10	3416.86	36.05	3380.81
	5/1/11	NG	NG	NG
	11/2/11	3416.86	36.80	3380.06
	5/22/12	3416.86	37.01	3379.85
	10/24/12	3416.86	36.93	3379.93
	4/30/13	3416.86	37.15	3379.71
Plugged and Abandoned				
MW019A	12/18/97	3414.74	39.83	3374.91
	11/16/99	3414.74	38.12	3376.62
	5/15/01	3414.74	38.02	3376.72
	8/23/01	3414.74	37.62	3377.12
	1/21/02	3414.74	37.92	3376.82
	4/4/02	3414.74	38.15	3376.59
	9/3/02	3414.74	37.40	3377.34
	12/2/02	3414.74	37.46	3377.28
	1/30/03	3414.74	37.61	3377.13
	3/28/03	3414.74	37.79	3376.95
	5/19/03	3414.74	37.91	3376.83
	9/8/03	3414.74	38.06	3376.68
	12/2/03	3414.74	38.22	3376.52
	3/30/04	3414.74	38.41	3376.33
	6/7/04	3414.74	37.93	3376.81
	9/16/04	3414.74	37.82	3376.92
	11/29/04	3414.74	36.70	3378.04
	3/31/05	3414.74	36.35	3378.39
	5/23/05	3414.74	36.62	3378.12
	1/17/06	3414.74	36.37	3378.37
	6/16/06	3414.74	36.61	3378.13
	4/4/07	3414.74	36.30	3378.44
	9/13/07	3414.74	35.96	3378.78
	3/18/08	3414.74	36.50	3378.24
	8/4/08	3414.74	36.82	3377.92
	3/10/09	3414.74	36.74	3378.00
	7/28/09	3414.74	37.00	3377.74
	3/1/10	3414.74	36.72	3378.02
	7/30/10	3414.74	36.39	3378.35
	5/1/11	NG	NG	NG
	11/2/11	3414.74	39.48	3375.26
	5/22/12	3414.74	37.70	3377.04
	10/24/12	3414.74	37.79	3376.95
	4/30/13	3414.74	37.76	3376.98
	5/5/14	3414.74	37.81	3376.93
	11/4/14	3414.74	37.03	3377.71

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW020A	11/16/99	3421.14	44.70	3376.44
	2/6/02	3421.14	44.14	3377.00
	9/3/02	3421.14	43.98	3377.16
	12/9/02	3421.14	44.06	3377.08
	1/30/03	3421.14	43.98	3377.16
	3/28/03	3421.14	44.05	3377.09
	6/5/03	3421.14	44.44	3376.70
	1/22/04	3421.14	44.68	3376.46
	3/30/04	3421.14	44.59	3376.55
	6/7/04	3421.14	44.33	3376.81
	9/17/04	3421.14	44.15	3376.99
	11/29/04	3421.14	43.75	3377.39
	4/1/05	3421.14	43.24	3377.90
	5/23/05	3421.14	43.16	3377.98
	1/17/06	3421.14	42.87	3378.27
	6/16/06	3421.14	42.74	3378.40
	4/4/07	3421.14	42.40	3378.74
	3/18/08	3421.14	42.41	3378.73
	8/4/08	3421.14	42.76	3378.38
	3/10/09	3421.14	42.85	3378.29
	7/28/09	3421.14	43.08	3378.06
	3/1/10	3421.14	43.04	3378.10
	7/30/10	3421.14	42.99	3378.15
	5/3/11	3421.14	43.18	3377.96
	11/2/11	3421.14	41.11	3380.03
	5/2/12	3421.14	43.49	3377.65
	10/24/12	3421.14	43.66	3377.48
	4/30/13	3421.14	43.78	3377.36
	10/29/13	3421.14	44.00	3377.14
	5/5/14	3421.14	44.01	3377.13
	11/4/14	3421.14	43.62	3377.52
MW021A	11/16/99	3422.94	48.41	3374.53
	5/15/01	3422.94	47.57	3375.37
	8/23/01	3422.94	47.98	3374.96
	1/21/02	3422.94	47.83	3375.11
	4/4/02	3422.94	47.98	3374.96
	9/3/02	3422.94	48.07	3374.87
	12/2/02	3422.94	47.63	3375.31
	1/30/03	3422.94	47.61	3375.33
	3/28/03	3422.94	47.71	3375.23
	5/19/03	3422.94	47.96	3374.98
	9/8/03	3422.94	48.01	3374.93
	1/21/04	3422.94	48.73	3374.21
	3/30/04	3422.94	47.94	3375.00
	6/7/04	3422.94	48.28	3374.66
	9/14/04	3422.94	47.95	3374.99
	11/29/04	3422.94	47.35	3375.59
	3/31/05	3422.94	46.93	3376.01
	5/23/05	3422.94	47.04	3375.90
	1/18/06	3422.94	46.34	3376.60
	6/14/06	3422.94	46.35	3376.59
	4/9/07	3422.94	45.80	3377.14
	9/18/07	3422.94	45.09	3377.85
	3/19/08	3422.94	45.08	3377.86
	8/4/080	3422.94	45.49	3377.45
	3/10/09	3422.94	46.28	3376.66
	7/28/09	3422.94	46.46	3376.48
	3/1/10	3422.94	46.34	3376.60
	8/2/10	3422.94	46.83	3376.11
	5/6/11	3422.94	46.44	3376.50
	11/4/11	3422.94	46.74	3376.20
	5/2/12	3422.94	47.97	3374.97
	10/24/12	3422.94	47.44	3375.50
	4/29/13	3422.94	48.06	3374.88
	10/29/13	3422.94	47.95	3374.99
	5/5/14	3422.94	47.70	3375.24
	11/3/14	3422.94	47.06	3375.88

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW022A	11/16/99	3431.13	57.29	3373.84
	5/15/01	3431.13	53.35	3377.78
	8/23/01	3431.13	53.96	3377.17
	1/21/02	3431.13	53.75	3377.38
	4/4/02	3431.13	66.00	3365.13
	9/3/02	3431.13	52.96	3378.17
	12/2/02	3431.13	52.95	3378.18
	1/31/03	3431.13	53.25	3377.88
	3/28/03	3431.13	53.58	3377.55
	5/19/03	3431.13	53.26	3377.87
	9/9/03	3431.13	66.99	3364.14
	12/3/03	3431.13	66.97	3364.16
	3/30/04	3431.13	64.08	3367.05
	6/7/04	3431.13	61.36	3369.77
	9/17/04	3431.13	53.22	3377.91
	11/30/04	3431.13	54.56	3376.57
	3/31/05	3431.13	52.44	3378.69
	5/23/05	3431.13	52.30	3378.83
	1/16/06	3431.13	52.56	3378.57
	6/19/06	3431.13	47.04	3384.09
	3/30/07	3431.13	50.80	3380.33
	9/13/07	3431.13	50.84	3380.29
	3/18/08	3431.13	50.78	3380.35
	8/4/08	3431.13	51.02	3380.11
	3/10/09	3431.13	51.09	3380.04
	7/28/09	3431.13	51.20	3379.93
	3/1/10	3431.13	51.28	3379.85
	8/2/10	3431.13	51.29	3379.84
	5/6/11	3431.13	51.07	3380.06
	11/4/11	3431.13	51.28	3379.85
	5/3/12	3431.13	51.34	3379.79
	10/24/12	3431.13	51.54	3379.59
	5/2/13	3431.13	51.71	3379.42
Plugged and Abandoned				
MW023A	1/9/03	3436.26	57.70	3378.56
	1/30/03	3436.26	57.23	3379.03
	3/28/03	3436.26	57.33	3378.93
	5/19/03	3436.26	57.25	3379.01
	9/9/03	3436.26	53.23	3383.03
	12/2/03	3436.26	57.23	3379.03
	3/30/04	3436.26	57.25	3379.01
	6/7/04	3436.26	57.35	3378.91
	9/17/04	3436.26	57.14	3379.12
	11/30/04	3436.26	57.11	3379.15
	3/31/05	3436.26	56.62	3379.64
	5/23/05	3436.26	56.46	3379.80
	1/17/06	3436.26	56.09	3380.17
	6/14/06	3436.26	55.80	3380.46
	3/29/07	3436.26	53.38	3382.88
	9/11/07	3436.26	55.29	3380.97
	3/18/08	3436.26	55.11	3381.15
	8/4/08	3436.26	55.18	3381.08
	3/10/09	3436.26	55.22	3381.04
	7/28/09	3436.26	55.32	3380.94
	3/1/10	3436.26	55.40	3380.86
	8/3/10	3436.26	55.62	3380.64
	5/3/11	3436.26	56.52	3379.74
	11/2/11	3436.26	55.39	3380.87
	5/4/12	3436.26	55.43	3380.83
	10/25/12	3436.26	55.56	3380.70
	5/1/13	3436.26	55.62	3380.64
	10/29/13	3436.26	55.68	3380.58
	5/5/14	3436.26	55.80	3380.46
	11/3/14	3436.26	55.75	3380.51

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW024A	11/16/99	3430.77	54.30	3376.47
	5/15/01	3430.77	53.32	3377.45
	8/23/01	3430.77	53.86	3376.91
	2/6/02	3430.77	53.42	3377.35
	9/3/02	3430.77	53.26	3377.51
	12/2/02	3430.77	53.03	3377.74
	1/29/03	3430.77	53.11	3377.66
	3/27/03	3430.77	53.31	3377.46
	5/19/03	3430.77	53.22	3377.55
	9/9/03	3430.77	53.73	3377.04
	12/2/03	3430.77	53.69	3377.08
	3/30/04	3430.77	53.87	3376.90
	6/7/04	3430.77	53.89	3376.88
	9/16/04	3430.77	53.11	3377.66
	11/29/04	3430.77	53.04	3377.73
	3/31/05	3430.77	52.50	3378.27
	5/23/05	3430.77	52.26	3378.51
	1/17/06	3430.77	51.43	3379.34
	6/14/06	3430.77	50.90	3379.87
	4/11/07	3430.77	50.82	3379.95
	9/18/07	3430.77	50.88	3379.89
	3/19/08	3430.77	50.88	3379.89
	8/4/08	3430.77	50.98	3379.79
	3/11/09	3430.77	51.15	3379.62
	7/29/09	3430.77	51.17	3379.60
	3/1/10	3430.77	51.22	3379.55
	8/2/10	3430.77	51.24	3379.53
	5/3/11	3430.77	51.07	3379.70
	11/2/11	3430.77	51.22	3379.55
	5/1/12	3430.77	51.20	3379.57
	10/24/12	3430.77	51.35	3379.42
	5/1/13	3430.77	51.54	3379.23
	10/29/13	3430.77	51.64	3379.13
	5/5/14	3430.77	51.70	3379.07
	11/3/14	3430.77	51.60	3379.17
MW039A	8/23/01	3435.71	57.85	3377.86
	1/21/02	3435.71	57.62	3378.09
	4/4/02	3435.71	57.71	3378.00
	9/3/02	3435.71	57.47	3378.24
	12/2/02	3435.71	57.20	3378.51
	1/30/03	3435.71	57.20	3378.51
	3/28/03	3435.71	57.40	3378.31
	5/19/03	3435.71	57.27	3378.44
	9/9/03	3435.71	57.43	3378.28
	12/2/03	3435.71	57.32	3378.39
	3/30/04	3435.71	57.43	3378.28
	6/7/04	3435.71	57.52	3378.19
	9/17/04	3435.71	57.22	3378.49
	11/30/04	3435.71	57.00	3378.71
	3/31/05	3435.71	56.54	3379.17
	5/23/05	3435.71	56.29	3379.42
	1/16/06	3435.71	55.75	3379.96
	6/19/06	3435.71	55.41	3380.30
	4/12/07	3435.71	55.01	3380.70
	3/19/008	3435.71	54.88	3380.83
	3/11/09	3435.71	55.14	3380.57
	3/1/10	3435.71	55.16	3380.55
	8/3/10	3435.71	55.24	3380.47
	5/6/11	3435.71	55.08	3380.63
	11/4/11	3435.71	55.12	3380.59
	5/3/12	3435.71	55.22	3380.49
	10/24/12	3435.71	55.40	3380.31
	5/2/13	3435.71	55.60	3380.11
	10/29/13	3435.71	55.56	3380.15
	5/5/14	3435.71	55.64	3380.07
	11/4/14	3435.71	55.51	3380.20

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW040A	4/4/02	3422.92	43.70	3379.22
	9/3/02	3422.92	43.90	3379.02
	12/2/02	3422.92	43.71	3379.21
	1/31/03	3422.92	43.71	3379.21
	3/28/03	3422.92	43.71	3379.21
	5/19/03	3422.92	43.69	3379.23
	9/9/03	3422.92	43.69	3379.23
	12/2/03	3422.92	43.68	3379.24
	3/30/04	3422.92	43.84	3379.08
	6/7/04	3422.92	43.97	3378.95
	9/17/04	3422.92	43.70	3379.22
	11/30/04	3422.92	43.29	3379.63
	3/31/05	3422.92	32.79	3390.13
	5/23/05	3422.92	42.55	3380.37
	1/16/06	3422.92	42.40	3380.52
	6/16/06	3422.92	42.10	3380.82
	4/2/07	3422.92	41.61	3381.31
	9/11/07	3422.92	41.73	3381.19
	3/18/08	3422.92	41.51	3381.41
	8/4/08	3422.92	41.70	3381.22
	3/10/09	3422.92	41.96	3380.96
	7/28/09	3422.92	42.17	3380.75
	3/1/10	3422.92	42.21	3380.71
	8/2/10	3422.92	41.31	3381.61
	5/3/11	3422.92	42.25	3380.67
	11/2/11	3422.92	42.20	3380.72
	5/1/12	3422.92	42.28	3380.64
	10/24/12	3422.92	42.57	3380.35
	5/1/13	3422.92	42.69	3380.23
	10/29/13	3422.92	42.80	3380.12
	5/5/14	3422.92	42.91	3380.01
	11/3/14	3422.92	42.50	3380.42
MW041A	4/29/02	3418.42	43.22	3375.20
	5/7/02	3418.42	43.12	3375.30
	9/3/02	3418.42	43.30	3375.12
	12/2/02	3418.42	43.04	3375.38
	1/30/03	3418.42	43.19	3375.23
	3/28/03	3418.42	43.01	3375.41
	5/19/03	3418.42	43.08	3375.34
	9/8/03	3418.42	43.23	3375.19
	12/2/03	3418.42	43.23	3375.19
	3/30/04	3418.42	43.38	3375.04
	6/7/04	3418.42	43.33	3375.09
	9/16/04	3418.42	43.24	3375.18
	11/29/04	3418.42	42.97	3375.45
	3/31/05	3418.42	42.49	3375.93
	5/23/05	3418.42	42.35	3376.07
	1/17/06	3418.42	41.90	3376.52
	6/16/06	3418.42	41.57	3376.85
	4/17/07	3418.42	41.25	3377.17
	3/19/08	3418.42	41.20	3377.22
	3/11/09	3418.42	41.70	3376.72
	3/1/10	3418.42	41.68	3376.74
	8/2/10	3418.42	41.85	3376.57
	5/6/11	3418.42	41.79	3376.63
	11/3/11	3418.42	42.11	3376.31
	5/8/12	3418.42	42.05	3376.37
	10/24/12	3418.42	42.47	3375.95
	4/30/13	3418.42	42.66	3375.76
	5/5/14	3418.42	42.90	3375.52
	11/3/14	3418.42	42.48	3375.94

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW042A	8/23/01	3424.75	46.26	3378.49
	1/21/02	3424.75	48.30	3376.45
	4/4/02	3424.75	48.17	3376.58
	9/3/02	3424.75	47.86	3376.89
	12/2/02	3424.75	47.75	3377.00
	1/31/03	3424.75	47.65	3377.10
	3/28/03	3424.75	47.84	3376.91
	5/19/03	3424.75	47.84	3376.91
	9/9/03	3424.75	48.04	3376.71
	12/3/03	3424.75	48.00	3376.75
	3/30/04	3424.75	48.31	3376.44
	6/7/04	3424.75	48.42	3376.33
	9/17/04	3424.75	48.58	3376.17
	11/29/04	3424.75	47.24	3377.51
	3/31/05	3424.75	47.30	3377.45
	5/23/05	3424.75	47.05	3377.70
	1/17/06	3424.75	46.02	3378.73
	6/19/06	3424.75	45.90	3378.85
	4/17/07	3424.75	45.59	3379.16
	3/19/08	3424.75	45.71	3379.04
	3/11/09	3424.75	46.15	3378.60
	3/1/10	3424.75	46.19	3378.56
	8/2/10	3424.75	46.38	3378.37
	5/6/11	3424.75	46.00	3378.75
	11/4/11	3424.75	46.57	3378.18
	5/3/12	3424.75	46.58	3378.17
	10/24/12	3424.75	46.91	3377.84
	5/2/13	3424.75	46.98	3377.77
	10/29/13	3424.75	47.10	3377.65
	5/5/14	3424.75	47.16	3377.59
	11/3/14	3424.75	46.31	3378.44
MW046A	1/7/03	3426.45	50.09	3376.36
	1/31/03	3426.45	48.81	3377.64
	3/28/03	3426.45	49.06	3377.39
	5/19/03	3426.45	48.88	3377.57
	9/9/03	3426.45	50.48	3375.97
	12/3/03	3426.45	50.54	3375.91
	3/30/04	3426.45	50.33	3376.12
	6/7/04	3426.45	50.20	3376.25
	9/17/04	3426.45	48.83	3377.62
	11/30/04	3426.45	48.66	3377.79
	3/31/05	3426.45	47.92	3378.53
	5/23/05	3426.45	47.75	3378.70
	1/17/06	3426.45	46.55	3379.90
	6/19/06	3426.45	46.12	3380.33
	4/17/07	3426.45	46.35	3380.10
	3/19/08	3426.45	46.39	3380.06
	3/11/09	3426.45	46.78	3379.67
	3/1/10	3426.45	46.95	3379.50
	8/2/10	3426.45	46.96	3379.49
	5/6/11	3426.45	46.70	3379.75
	11/4/11	3426.45	47.05	3379.40
	5/3/12	3426.45	47.10	3379.35
	10/24/12	3426.45	47.32	3379.13
	5/2/13	3426.45	47.50	3378.95
	10/29/13	3426.45	47.61	3378.84
	5/5/14	3426.45	47.65	3378.80
	11/4/14	3426.45	47.40	3379.05

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW048SA	8/1/02	3421.10	46.45	3374.65
	9/3/02	3421.10	46.40	3374.70
	12/2/02	3421.10	46.26	3374.84
	1/30/03	3421.10	46.18	3374.92
	3/28/03	3421.10	46.15	3374.95
	5/19/03	3421.10	46.19	3374.91
	9/8/03	3421.10	46.44	3374.66
	12/2/03	3421.10	46.45	3374.65
	3/30/04	3421.10	46.62	3374.48
	6/7/04	3421.10	46.48	3374.62
	9/16/04	3421.10	46.43	3374.67
	11/29/04	3421.10	46.17	3374.93
	3/31/05	3421.10	45.67	3375.43
	5/23/05	3421.10	45.52	3375.58
	1/17/06	3421.10	45.11	3375.99
	6/16/06	3421.10	44.96	3376.14
	4/10/07	3421.10	44.62	3376.48
	9/19/07	3421.10	44.49	3376.61
	3/19/08	3421.10	44.60	3376.50
	8/4/08	3421.10	44.94	3376.16
	3/11/09	3421.10	45.02	3376.08
	7/29/09	3421.10	45.26	3375.84
	3/1/10	3421.10	45.23	3375.87
	8/3/10	3421.10	43.65	3377.45
	5/4/11	3421.10	45.30	3375.80
	11/3/11	3421.10	45.55	3375.55
	5/2/12	3421.10	45.63	3375.47
	10/23/12	3421.10	45.87	3375.23
	4/30/13	3421.10	45.99	3375.11
	10/28/13	3421.10	46.26	3374.84
	5/5/14	3421.10	46.17	3374.93
	11/3/14	3421.10	45.94	3375.16
MW049SA	7/30/02	3422.46	49.31	3373.15
	9/3/02	3422.46	49.29	3373.17
	12/2/02	3422.46	49.18	3373.28
	1/30/03	3422.46	49.13	3373.33
	3/28/03	3422.46	49.09	3373.37
	5/19/03	3422.46	49.08	3373.38
	9/8/03	3422.46	49.32	3373.14
	12/2/03	3422.46	49.32	3373.14
	3/30/04	3422.46	49.42	3373.04
	6/7/04	3422.46	48.57	3373.89
	9/16/04	3422.46	49.36	3373.10
	11/29/04	3422.46	49.16	3373.30
	3/31/05	3422.46	48.65	3373.81
	5/23/05	3422.46	48.59	3373.87
	1/17/06	3422.46	48.19	3374.27
	6/16/06	3422.46	47.97	3374.49
	4/10/07	3422.46	47.62	3374.84
	3/19/08	3422.46	47.53	3374.93
	3/11/09	3422.46	47.95	3374.51
	3/1/10	3422.46	48.12	3374.34
	8/3/10	3422.46	48.21	3374.25
	5/4/11	3422.46	48.16	3374.30
	11/3/11	3422.46	48.48	3373.98
	5/2/12	3422.46	48.48	3373.98
	10/23/12	3422.46	48.78	3373.68
	4/30/13	3422.46	48.90	3373.56
	10/28/13	3422.46	49.10	3373.36
	5/5/14	3422.46	49.00	3373.46
	11/3/14	3422.46	48.96	3373.50

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW050SA	7/30/02	3419.31	46.30	3373.01
	9/3/02	3419.31	46.19	3373.12
	12/2/02	3419.31	45.93	3373.38
	1/30/03	3419.31	45.92	3373.39
	3/28/03	3419.31	45.92	3373.39
	5/19/03	3419.31	46.01	3373.30
	9/8/03	3419.31	46.13	3373.18
	12/2/03	3419.31	46.05	3373.26
	3/30/04	3419.31	46.15	3373.16
	6/7/04	3419.31	46.18	3373.13
	9/14/04	3419.31	46.18	3373.13
	11/29/04	3419.31	45.80	3373.51
	3/31/05	3419.31	45.34	3373.97
	5/23/05	3419.31	45.26	3374.05
	1/17/06	3419.31	44.95	3374.36
	6/14/06	3419.31	44.71	3374.60
	4/9/07	3419.31	44.28	3375.03
	3/19/08	3419.31	44.25	3375.06
	3/11/09	3419.31	44.78	3374.53
	3/1/10	3419.31	44.82	3374.49
	7/30/10	3419.31	45.02	3374.29
	5/4/11	3419.31	44.84	3374.47
	11/4/11	3419.31	45.24	3374.07
	5/2/12	3419.31	45.48	3373.83
	10/24/12	3419.31	45.70	3373.61
	4/29/13	3419.31	45.84	3373.47
	10/28/13	3419.31	45.95	3373.36
	5/5/14	3419.31	46.10	3373.21
	11/3/14	3419.31	45.70	3373.61
MW051SA	10/10/02	3415.42	44.50	3370.92
	12/2/02	3415.42	44.43	3370.99
	1/30/03	3415.42	44.38	3371.04
	3/28/03	3415.42	44.39	3371.03
	5/19/03	3415.42	44.40	3371.02
	9/8/03	3415.42	44.55	3370.87
	12/2/03	3415.42	44.53	3370.89
	3/30/04	3415.42	44.59	3370.83
	6/7/04	3415.42	44.53	3370.89
	9/14/04	3415.42	44.58	3370.84
	3/31/05	3415.42	44.04	3371.38
	5/23/05	3415.42	43.95	3371.47
	1/17/06	3415.42	43.70	3371.72
	6/15/06	3415.42	43.47	3371.95
	4/17/07	3415.42	43.09	3372.33
	3/19/08	3415.42	43.04	3372.38
	3/11/09	3415.42	43.48	3371.94
	3/1/10	3415.42	43.53	3371.89
	8/3/10	3415.42	43.65	3371.77
	5/1/11	NG	NG	NG
	11/3/11	3415.42	43.72	3371.70
	5/2/12	3415.42	46.19	3369.23
	10/23/12	3415.42	44.22	3371.20
	4/30/13	3415.42	44.31	3371.11
	10/28/13	3415.42	44.45	3370.97
	5/5/14	3415.42	44.46	3370.96
	11/3/14	3415.42	44.24	3371.18

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW052SA	10/10/02	3415.23	45.45	3369.78
	12/2/02	3415.23	45.39	3369.84
	1/30/03	3415.23	45.35	3369.88
	3/28/03	3415.23	45.36	3369.87
	5/19/03	3415.23	45.28	3369.95
	9/8/03	3415.23	45.51	3369.72
	12/2/03	3415.23	45.52	3369.71
	3/30/04	3415.23	45.58	3369.65
	6/7/04	3415.23	45.85	3369.38
	9/14/04	3415.23	45.58	3369.65
	11/29/04	3415.23	45.43	3369.80
	3/31/05	3415.23	45.05	3370.18
	5/23/05	3415.23	45.02	3370.21
	1/17/06	3415.23	44.72	3370.51
	6/16/06	3415.23	44.59	3370.64
	4/10/07	3415.23	44.34	3370.89
	3/19/08	3415.23	44.24	3370.99
	3/11/09	3415.23	44.54	3370.69
	3/1/10	3415.23	44.72	3370.51
	8/3/10	3415.23	44.78	3370.45
	5/3/11	3415.23	44.76	3370.47
	11/3/11	3415.23	45.03	3370.20
	5/2/12	3415.23	44.95	3370.28
	10/23/12	3415.23	45.21	3370.02
	4/29/13	3415.23	45.22	3370.01
	10/28/13	3415.23	45.54	3369.69
	5/5/14	3415.23	45.30	3369.93
	11/3/14	3415.23	45.36	3369.87
MW053SA	9/18/02	3413.86	42.93	3370.93
	12/2/02	3413.86	42.80	3371.06
	1/30/03	3413.86	42.68	3371.18
	3/28/03	3413.86	42.68	3371.18
	5/19/03	3413.86	42.65	3371.21
	9/8/03	3413.86	43.09	3370.77
	12/2/03	3413.86	43.12	3370.74
	3/30/04	3413.86	43.15	3370.71
	6/7/04	3413.86	43.04	3370.82
	9/16/04	3413.86	43.09	3370.77
	11/29/04	3413.86	42.74	3371.12
	3/31/05	3413.86	42.13	3371.73
	5/23/05	3413.86	41.97	3371.89
	1/17/06	3413.86	41.61	3372.25
	6/16/06	3413.86	41.67	3372.19
	4/5/07	3413.86	41.32	3372.54
	9/19/07	3413.86	41.20	3372.66
	3/18/08	3413.86	41.30	3372.56
	8/4/08	3413.86	41.76	3372.10
	3/10/09	3413.86	41.60	3372.26
	7/28/09	3413.86	41.97	3371.89
	3/1/10	3413.86	41.92	3371.94
	7/30/10	3413.86	41.98	3371.88
	5/3/11	3413.86	42.05	3371.81
	11/3/11	3413.86	42.39	3371.47
	5/2/12	3413.86	42.39	3371.47
	10/23/12	3413.86	42.65	3371.21
	4/30/13	3413.86	42.60	3371.26
	10/29/13	3413.86	43.00	3370.86
	5/5/14	3413.86	42.68	3371.18
	11/3/14	3413.86	42.67	3371.19

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW054SA	1/30/03	3411.38	45.21	3366.17
	3/28/03	3411.38	45.09	3366.29
	5/19/03	3411.38	45.09	3366.29
	9/8/03	3411.38	45.43	3365.95
	12/2/03	3411.38	45.41	3365.97
	3/30/04	3411.38	45.46	3365.92
	6/7/04	3411.38	45.37	3366.01
	9/14/04	3411.38	42.48	3368.90
	11/29/04	3411.38	45.26	3366.12
	3/31/05	3411.38	44.90	3366.48
	5/23/05	3411.38	44.81	3366.57
	1/17/06	3411.38	44.68	3366.70
	6/16/06	3411.38	44.73	3366.65
	4/10/07	3411.38	44.57	3366.81
	9/19/07	3411.38	44.63	3366.75
	3/19/08	3411.38	44.59	3366.79
	8/4/08	3411.38	44.84	3366.54
	3/11/09	3411.38	44.74	3366.64
	7/29/09	3411.38	44.93	3366.45
	3/1/10	3411.38	44.87	3366.51
	8/3/10	3411.38	44.89	3366.49
	5/3/11	3411.38	44.92	3366.46
	11/3/11	3411.38	45.10	3366.28
	5/2/12	3411.38	45.01	3366.37
	10/23/12	3411.38	45.14	3366.24
	4/29/13	3411.38	45.10	3366.28
	10/28/13	3411.38	45.32	3366.06
	5/5/14	3411.38	45.11	3366.27
	11/3/14	3411.38	45.23	3366.15
MW055SA	1/6/03	3407.43	41.20	3366.23
	1/30/03	3407.43	41.00	3366.43
	3/27/03	3407.43	41.15	3366.28
	5/19/03	3407.43	41.00	3366.43
	9/8/03	3407.43	41.13	3366.30
	12/2/03	3407.43	41.09	3366.34
	3/30/04	3407.43	41.12	3366.31
	6/7/04	3407.43	41.02	3366.41
	9/14/04	3407.43	41.18	3366.25
	11/29/04	3407.43	41.08	3366.35
	3/31/05	3407.43	40.90	3366.53
	5/23/05	3407.43	40.82	3366.61
	1/17/06	3407.43	40.76	3366.67
	6/15/06	3407.43	40.68	3366.75
	4/10/07	3407.43	40.63	3366.80
	9/19/07	3407.43	40.56	3366.87
	3/19/08	3407.43	40.68	3366.75
	8/4/08	3407.43	40.75	3366.68
	3/11/09	3407.43	40.79	3366.64
	7/29/09	3407.43	40.85	3366.58
	3/1/10	3407.43	40.87	3366.56
	7/30/10	3407.43	40.76	3366.67
	5/3/11	3407.43	40.84	3366.59
	11/3/11	3407.43	40.90	3366.53
	5/2/12	3407.43	40.85	3366.58
	10/23/12	3407.43	40.93	3366.50
	4/29/13	3407.43	40.93	3366.50
	10/28/13	3407.43	41.08	3366.35
	5/5/14	3407.43	40.97	3366.46
	11/3/14	3407.43	40.93	3366.50

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW056SA	1/7/03	3410.71	46.32	3364.39
	1/30/03	3410.71	46.21	3364.50
	3/28/03	3410.71	46.20	3364.51
	5/19/03	3410.71	46.18	3364.53
	9/8/03	3410.71	46.31	3364.40
	12/2/03	3410.71	46.33	3364.38
	3/30/04	3410.71	46.40	3364.31
	6/7/04	3410.71	46.31	3364.40
	9/14/04	3410.71	46.38	3364.33
	11/29/04	3410.71	46.31	3364.40
	3/31/05	3410.71	46.01	3364.70
	5/23/05	3410.71	45.93	3364.78
	1/17/06	3410.71	45.62	3365.09
	6/15/06	3410.71	45.42	3365.29
	4/11/07	3410.71	44.91	3365.80
	9/20/07	3410.71	44.67	3366.04
	3/19/08	3410.71	44.69	3366.02
	8/4/08	3410.71	44.79	3365.92
	3/11/09	3410.71	44.92	3365.79
	7/29/09	3410.71	44.93	3365.78
	3/1/10	3410.71	44.94	3365.77
	7/30/10	3410.71	44.88	3365.83
	5/1/11	NG	NG	NG
	11/4/11	3410.71	45.14	3365.57
	5/2/12	3410.71	45.16	3365.55
	10/23/12	3410.71	43.30	3367.41
	4/29/13	3410.71	43.36	3367.35
	10/29/13	3410.71	43.65	3367.06
	5/5/14	3410.71	43.44	3367.27
	11/3/14	3410.71	43.28	3367.43
MW057SA	1/30/03	3417.74	46.33	3371.41
	3/28/03	3417.74	46.45	3371.29
	5/19/03	3417.74	46.59	3371.15
	9/8/03	3417.74	46.72	3371.02
	12/2/03	3417.74	46.65	3371.09
	3/30/04	3417.74	46.70	3371.04
	6/7/04	3417.74	46.75	3370.99
	9/14/04	3417.74	46.58	3371.16
	11/30/04	3417.74	46.00	3371.74
	3/31/05	3417.74	45.77	3371.97
	5/23/05	3417.74	45.73	3372.01
	1/17/06	3417.74	45.53	3372.21
	6/14/06	3417.74	45.50	3372.24
	3/29/07	3417.74	44.91	3372.83
	9/11/07	3417.74	44.96	3372.78
	3/18/08	3417.74	45.05	3372.69
	8/4/08	3417.74	45.34	3372.40
	3/10/09	3417.74	45.58	3372.16
	7/28/09	3417.74	45.58	3372.16
	3/1/10	3417.74	45.47	3372.27
	7/30/10	3417.74	45.76	3371.98
	5/1/11	NG	NG	NG
	11/2/11	3417.74	45.83	3371.91
	5/17/12	3417.74	46.14	3371.60
	10/23/12	3417.74	46.51	3371.23
	4/29/13	3417.74	46.50	3371.24
	10/28/13	3417.74	46.60	3371.14
	5/5/14	3417.74	46.71	3371.03
	11/3/14	3417.74	46.19	3371.55

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW062A	1/31/03	3434.19	57.13	3377.06
	3/27/03	3434.19	57.16	3377.03
	5/19/03	3434.19	57.19	3377.00
	9/9/03	3434.19	57.29	3376.90
	12/2/03	3434.19	57.17	3377.02
	3/30/04	3434.19	57.35	3376.84
	6/7/04	3434.19	57.40	3376.79
	9/16/04	3434.19	57.18	3377.01
	11/29/04	3434.19	57.08	3377.11
	3/31/05	3434.19	56.64	3377.55
	5/23/05	3434.19	56.51	3377.68
	1/17/06	3434.19	55.93	3378.26
	6/14/06	3434.19	55.52	3378.67
	4/20/07	3434.19	55.17	3379.02
	9/13/07	3434.19	55.17	3379.02
	3/18/08	3434.19	55.13	3379.06
	8/4/08	3434.19	55.25	3378.94
	3/11/09	3434.19	55.39	3378.80
	7/28/09	3434.19	55.45	3378.74
	3/1/10	3434.19	55.45	3378.74
	8/2/10	3434.19	55.50	3378.69
	5/3/11	3434.19	55.28	3378.91
	11/2/11	3434.19	55.56	3378.63
	5/1/12	3434.19	55.50	3378.69
	10/24/12	3434.19	55.72	3378.47
	5/1/13	3434.19	55.87	3378.32
	10/28/13	3434.19	55.99	3378.20
	5/5/14	3434.19	56.02	3378.17
	11/3/14	3434.19	55.95	3378.24
MW063A	1/31/03	3435.22	57.89	3377.33
	3/27/03	3435.22	57.80	3377.42
	5/19/03	3435.22	57.82	3377.40
	9/9/03	3435.22	57.89	3377.33
	12/2/03	3435.22	57.78	3377.44
	3/30/04	3435.22	57.97	3377.25
	6/7/04	3435.22	57.93	3377.29
	9/16/04	3435.22	57.81	3377.41
	11/29/04	3435.22	57.78	3377.44
	3/31/05	3435.22	54.53	3380.69
	5/23/05	3435.22	57.20	3378.02
	1/17/06	3435.22	56.80	3378.42
	6/14/06	3435.22	56.44	3378.78
	4/20/07	3435.22	56.02	3379.20
	9/10/07	3435.22	55.92	3379.30
	3/18/08	3435.22	55.89	3379.33
	8/4/08	3435.22	55.98	3379.24
	3/11/09	3435.22	56.02	3379.20
	7/28/09	3435.22	56.05	3379.17
	3/1/10	3435.22	56.05	3379.17
	8/2/10	3435.22	56.08	3379.14
	5/3/11	3435.22	55.90	3379.32
	11/2/11	3435.22	56.04	3379.18
	5/1/12	3435.22	56.00	3379.22
	10/24/12	3435.22	56.13	3379.09
	5/1/13	3435.22	56.30	3378.92
	10/28/13	3435.22	56.41	3378.81
	5/5/14	3435.22	56.42	3378.80
	11/3/14	3435.22	56.43	3378.79

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW064SA	3/27/03	3405.15	54.20	3350.95
	5/19/03	3405.15	54.22	3350.93
	9/8/03	3405.15	54.27	3350.88
	12/2/03	3405.15	54.35	3350.80
	3/30/04	3405.15	54.39	3350.76
	6/7/04	3405.15	54.40	3350.75
	9/14/04	3405.15	54.36	3350.79
	11/29/04	3405.15	54.24	3350.91
	3/24/05	3405.15	54.91	3350.24
	5/23/05	3405.15	53.69	3351.46
	1/17/06	3405.15	53.09	3352.06
	6/14/06	3405.15	52.67	3352.48
	3/21/07	3405.15	NM	NM
	9/5/07	3405.15	51.52	3353.63
	3/19/08	3405.15	51.21	3353.94
	8/4/08	3405.15	51.11	3354.04
	3/11/09	3405.15	51.16	3353.99
	7/29/09	3405.15	51.05	3354.10
	3/1/10	3405.15	51.07	3354.08
	7/30/10	3405.15	50.99	3354.16
	5/4/11	3405.15	51.09	3354.06
	11/2/11	3405.15	51.29	3353.86
	5/2/12	3405.15	51.33	3353.82
	10/23/12	3405.15	51.36	3353.79
	4/29/13	3405.15	51.31	3353.84
Plugged and Abandoned				
MW065SA	3/27/03	3402.96	54.21	3348.75
	5/19/03	3402.96	54.23	3348.73
	9/8/03	3402.96	54.38	3348.58
	12/2/03	3402.96	54.51	3348.45
	3/30/04	3402.96	54.61	3348.35
	6/7/04	3402.96	54.32	3348.64
	9/14/04	3402.96	54.45	3348.51
	11/30/04	3402.96	54.31	3348.65
	3/31/05	3402.96	53.92	3349.04
	5/23/05	3402.96	53.66	3349.30
	1/17/06	3402.96	52.99	3349.97
	6/15/06	3402.96	52.62	3350.34
	4/10/07	3402.96	52.12	3350.84
	9/11/07	3402.96	51.59	3351.37
	3/19/08	3402.96	51.39	3351.57
	8/4/08	3402.96	51.30	3351.66
	3/11/09	3402.96	51.52	3351.44
	7/29/09	3402.96	51.32	3351.64
	3/1/10	3402.96	51.39	3351.57
	7/30/10	3402.96	51.30	3351.66
	5/4/11	3402.96	51.48	3351.48
	11/3/11	3402.96	51.81	3351.15
	5/1/12	3402.96	51.72	3351.24
	10/23/12	3402.96	51.69	3351.27
	4/29/13	3402.96	51.64	3351.32
	10/28/13	3402.96	51.85	3351.11
	5/5/14	3402.96	51.48	3351.48
	11/3/14	3402.96	51.53	3351.43

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW066SA	3/28/03	3404.03	52.45	3351.58
	5/19/03	3404.03	52.24	3351.79
	9/8/03	3404.03	52.71	3351.32
	12/2/03	3404.03	53.00	3351.03
	3/30/04	3404.03	53.16	3350.87
	6/7/04	3404.03	52.88	3351.15
	9/14/04	3404.03	55.30	3348.73
	11/29/04	3404.03	53.24	3350.79
	3/29/05	3404.03	52.71	3351.32
	5/23/05	3404.03	52.36	3351.67
	1/17/06	3404.03	51.15	3352.88
	6/15/06	3404.03	50.35	3353.68
	Date Missing	3404.03	49.45	3354.58
	9/19/07	3404.03	48.63	3355.40
	3/18/08	3404.03	48.25	3355.78
	8/4/08	3404.03	48.99	3355.04
	3/10/09	3404.03	49.00	3355.03
	7/29/09	3404.03	49.32	3354.71
	3/1/10	3404.03	49.53	3354.50
	7/30/10	3404.03	49.38	3354.65
	5/4/11	3404.03	49.67	3354.36
	11/3/11	3404.03	50.47	3353.56
	5/2/12	3404.03	50.24	3353.79
	10/23/12	3404.03	50.56	3353.47
	4/29/13	3404.03	50.20	3353.83
	10/29/13	3404.03	50.81	3353.22
	5/5/14	3404.03	50.09	3353.94
	11/3/14	3404.03	50.45	3353.58
MW067SA	3/28/03	3409.16	47.64	3361.52
	5/19/03	3409.16	47.61	3361.55
	9/8/03	3409.16	48.19	3360.97
	12/2/03	3409.16	48.25	3360.91
	3/30/04	3409.16	48.34	3360.82
	6/7/04	3409.16	48.10	3361.06
	9/14/04	3409.16	48.26	3360.90
	1/17/06	3409.16	45.90	3363.26
	6/16/06	3409.16	46.02	3363.14
	4/5/07	3409.16	45.46	3363.70
	9/12/07	3409.16	45.38	3363.78
	3/18/08	3409.16	45.34	3363.82
	8/4/08	3409.16	46.06	3363.10
	3/10/09	3409.16	45.81	3363.35
	7/28/09	3409.16	46.35	3362.81
	3/1/10	3409.16	46.31	3362.85
	8/3/10	3409.16	46.37	3362.79
	5/5/11	3409.16	46.54	3362.62
	11/3/11	3409.16	47.18	3361.98
	5/2/12	3409.16	46.89	3362.27
	10/23/12	3409.16	47.25	3361.91
	4/29/13	3409.16	46.95	3362.21
	10/29/13	3409.16	47.54	3361.62
	5/5/14	3409.16	47.00	3362.16
	11/3/14	3409.16	47.22	3361.94

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW070A	3/27/03	3439.67	61.08	3378.59
	5/19/03	3439.67	61.06	3378.61
	9/9/03	3439.67	61.05	3378.62
	12/2/03	3439.67	60.96	3378.71
	3/30/04	3439.67	60.96	3378.71
	6/7/04	3439.67	60.98	3378.69
	9/16/04	3439.67	60.98	3378.69
	11/30/04	3439.67	60.88	3378.79
	3/31/05	3439.67	60.68	3378.99
	5/23/05	3439.67	60.49	3379.18
	1/17/06	3439.67	60.14	3379.53
	6/14/06	3439.67	59.92	3379.75
	3/29/07	3439.67	59.45	3380.22
	9/11/07	3439.67	59.30	3380.37
	3/18/08	3439.67	59.09	3380.58
	8/4/08	3439.67	59.06	3380.61
	3/10/09	3439.67	59.11	3380.56
	7/28/09	3439.67	59.14	3380.53
	3/1/10	3439.67	59.18	3380.49
	8/2/10	3439.67	59.21	3380.46
	5/3/11	3439.67	59.06	3380.61
	11/2/11	3439.67	59.05	3380.62
	5/1/12	3439.67	59.02	3380.65
	10/24/12	3439.67	59.05	3380.62
	5/1/13	3439.67	59.28	3380.39
	10/28/13	3439.67	59.31	3380.36
	5/5/14	3439.67	59.32	3380.35
	11/3/14	3439.67	59.35	3380.32
MW071SA	5/2/03	3401.01	34.79	3366.22
	5/19/03	3401.01	52.61	3348.40
	9/8/03	3401.01	52.83	3348.18
	12/2/03	3401.01	52.98	3348.03
	3/30/04	3401.01	53.03	3347.98
	6/7/04	3401.01	52.78	3348.23
	9/14/04	3401.01	53.00	3348.01
	11/29/04	3401.01	53.71	3347.30
	3/31/05	3401.01	57.12	3343.89
	5/23/05	3401.01	51.90	3349.11
	1/17/06	3401.01	51.25	3349.76
	6/15/06	3401.01	50.95	3350.06
	4/3/07	3401.01	50.47	3350.54
	9/18/07	3401.01	49.94	3351.07
	3/18/08	3401.01	49.73	3351.28
	8/4/08	3401.01	49.87	3351.14
	3/10/09	3401.01	49.92	3351.09
	7/28/09	3401.01	49.83	3351.18
	3/1/10	3401.01	49.91	3351.10
	7/30/10	3401.01	49.89	3351.12
	5/4/11	3401.01	50.10	3350.91
	11/3/11	3401.01	51.41	3349.60
	5/1/12	3401.01	50.36	3350.65
	10/23/12	3401.01	50.31	3350.70
	4/29/13	3401.01	50.21	3350.80
	10/28/13	3401.01	50.40	3350.61
	5/5/14	3401.01	50.00	3351.01
	11/3/14	3401.01	50.05	3350.96

TABLE 1
SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW072SA	5/1/03	3401.34	53.46	3347.88
	5/19/03	3401.34	52.96	3348.38
	9/8/03	3401.34	53.24	3348.10
	12/2/03	3401.34	53.35	3347.99
	3/30/04	3401.34	53.49	3347.85
	6/7/04	3401.34	53.18	3348.16
	9/14/04	3401.34	53.39	3347.95
	11/29/04	3401.34	53.06	3348.28
	3/29/05	3401.34	52.39	3348.95
	5/23/05	3401.34	52.14	3349.20
	1/17/06	3401.34	51.49	3349.85
	6/15/06	3401.34	51.25	3350.09
	4/3/07	3401.34	50.78	3350.56
	9/13/07	3401.34	50.20	3351.14
	3/18/08	3401.34	50.06	3351.28
	8/4/08	3401.34	50.29	3351.05
	3/10/09	3401.34	50.44	3350.90
	7/28/09	3401.34	50.24	3351.10
	3/1/10	3401.34	50.37	3350.97
	7/30/10	3401.34	50.40	3350.94
	5/4/11	3401.34	50.68	3350.66
	11/2/11	3401.34	51.08	3350.26
	5/2/12	3401.34	50.91	3350.43
	10/23/12	3401.34	50.88	3350.46
	4/29/13	3401.34	50.90	3350.44
	10/29/13	3401.34	51.05	3350.29
	5/5/14	3401.34	50.55	3350.79
	11/3/14	3401.34	50.65	3350.69
MW073SA	5/3/03	3403.26	50.25	3353.01
	5/19/03	3403.26	50.21	3353.05
	9/8/03	3403.26	50.61	3352.65
	12/2/03	3403.26	50.74	3352.52
	3/30/04	3403.26	50.86	3352.40
	6/7/04	3403.26	50.58	3352.68
	9/14/04	3403.26	50.76	3352.50
	11/29/04	3403.26	50.40	3352.86
	3/31/05	3403.26	49.65	3353.61
	5/23/05	3403.26	49.38	3353.88
	1/17/06	3403.26	48.68	3354.58
	6/15/06	3403.26	48.52	3354.74
	4/3/07	3403.26	48.01	3355.25
	9/12/07	3403.26	47.55	3355.71
	3/18/08	3403.26	47.45	3355.81
	8/4/08	3403.26	47.78	3355.48
	3/10/09	3403.26	47.89	3355.37
	7/28/09	3403.26	47.97	3355.29
	3/1/10	3403.26	48.08	3355.18
	7/30/10	3403.26	48.07	3355.19
	5/1/11	NG	NG	NG
	11/3/11	3403.26	48.84	3354.42
	5/2/12	3403.26	48.65	3354.61
	10/23/12	3403.26	48.76	3354.50
	4/29/13	3403.26	48.61	3354.65
	10/29/13	3403.26	49.06	3354.20
	5/5/14	3403.26	48.44	3354.82
	11/3/14	3403.26	48.58	3354.68

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW074SA	2/18/04	3409.97	50.22	3359.75
	3/30/04	3409.97	50.24	3359.73
	6/7/04	3409.97	50.15	3359.82
	9/14/04	3409.97	50.22	3359.75
	11/29/04	3409.97	NR	NR
	3/31/05	3409.97	49.79	3360.18
	5/23/05	3409.97	49.69	3360.28
	1/17/06	3409.97	49.31	3360.66
	6/15/06	3409.97	49.02	3360.95
	4/3/07	3409.97	48.39	3361.58
	9/5/07	3409.97	48.10	3361.87
	3/18/08	3409.97	48.03	3361.94
	8/4/08	3409.97	48.07	3361.90
	3/10/09	3409.97	48.18	3361.79
	7/28/09	3409.97	48.14	3361.83
	3/1/10	3409.97	48.14	3361.83
	7/30/10	3409.97	48.19	3361.78
	5/4/11	3409.97	48.21	3361.76
	11/2/11	3409.97	48.50	3361.47
	5/2/12	3409.97	48.50	3361.47
	10/23/12	3409.97	48.72	3361.25
	4/29/13	3409.97	48.78	3361.19
	10/28/13	3409.97	49.02	3360.95
	5/5/14	3409.97	48.85	3361.12
	11/3/14	3409.97	48.92	3361.05
MW075SA	2/18/04	3404.21	54.19	3350.02
	3/30/04	3404.21	54.21	3350.00
	6/7/04	3404.21	54.11	3350.10
	9/14/04	3404.21	54.08	3350.13
	11/29/04	3404.21	54.04	3350.17
	3/31/05	3404.21	53.69	3350.52
	5/23/05	3404.21	53.49	3350.72
	1/17/06	3404.21	52.89	3351.32
	6/15/06	3404.21	52.44	3351.77
	4/3/07	3404.21	51.86	3352.35
	9/5/07	3404.21	51.38	3352.83
	3/18/08	3404.21	51.07	3353.14
	8/4/08	3404.21	50.91	3353.30
	3/10/09	3404.21	50.93	3353.28
	7/28/09	3404.21	50.80	3353.41
	3/1/10	3404.21	50.81	3353.40
	7/30/10	3404.21	50.71	3353.50
	5/4/11	3404.21	50.85	3353.36
	11/2/11	3404.21	51.00	3353.21
	5/1/12	3404.21	51.03	3353.18
	10/23/12	3404.21	51.01	3353.20
	4/29/13	3404.21	50.98	3353.23
	10/28/13	3404.21	51.10	3353.11
	5/5/14	3404.21	50.91	3353.30
	11/3/14	3404.21	50.93	3353.28

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW076SA	2/18/04	3404.13	55.72	3348.41
	3/29/04	3404.13	55.77	3348.36
	6/7/04	3404.13	55.62	3348.51
	9/14/04	3404.13	55.64	3348.49
	11/29/04	3404.13	55.54	3348.59
	3/31/05	3404.13	55.17	3348.96
	5/23/05	3404.13	54.94	3349.19
	1/17/06	3404.13	54.39	3349.74
	6/15/06	3404.13	53.95	3350.18
	4/3/07	3404.13	53.01	3351.12
	3/18/08	3404.13	52.76	3351.37
	8/4/08	3404.13	52.60	3351.53
	3/10/09	3404.13	52.61	3351.52
	7/28/09	3404.13	52.45	3351.68
	3/1/10	3404.13	52.79	3351.34
	7/30/10	3404.13	52.40	3351.73
	5/4/11	3404.13	52.54	3351.59
	11/2/11	3404.13	52.72	3351.41
	5/1/12	3404.13	52.73	3351.40
	10/23/12	3404.13	52.65	3351.48
MW077SA	4/29/13	3404.13	52.60	3351.53
	10/28/13	3404.13	52.76	3351.37
	5/5/14	3404.13	52.50	3351.63
	11/3/14	3404.13	52.48	3351.65
	2/18/04	3401.71	53.71	3348.00
	3/30/04	3401.71	53.72	3347.99
	6/7/04	3401.71	53.49	3348.22
	9/14/04	3401.71	53.56	3348.15
	3/31/05	3401.71	52.99	3348.72
	5/23/05	3401.71	52.77	3348.94
	1/17/06	3401.71	57.13	3344.58
	6/15/06	3401.71	51.79	3349.92
	4/11/07	3401.71	51.34	3350.37
	9/6/07	3401.71	50.82	3350.89
	3/19/08	3401.71	50.62	3351.09
	8/4/08	3401.71	50.56	3351.15
	3/11/09	3401.71	50.71	3351.00
	7/29/09	3401.71	50.49	3351.22
	3/1/10	3401.71	50.53	3351.18
	7/30/10	3401.71	50.46	3351.25
	5/4/11	3401.71	50.63	3351.08
	11/2/11	3401.71	50.90	3350.81
	5/1/12	3401.71	50.89	3350.82
	10/23/12	3401.71	50.80	3350.91
	4/29/13	3401.71	50.74	3350.97
Plugged and Abandoned				

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW078SA	3/30/04	3411.12	44.63	3366.49
	6/7/04	3411.12	45.45	3365.67
	9/16/04	3411.12	45.72	3365.40
	11/29/04	3411.12	45.18	3365.94
	3/31/05	3411.12	44.30	3366.82
	5/23/05	3411.12	44.08	3367.04
	1/17/06	3411.12	43.64	3367.48
	6/16/06	3411.12	43.97	3367.15
	4/5/07	3411.12	43.42	3367.70
	9/6/07	3411.12	43.47	3367.65
	3/18/08	3411.12	43.49	3367.63
	8/4/08	3411.12	44.70	3366.42
	3/10/09	3411.12	43.47	3367.65
	7/28/09	3411.12	44.50	3366.62
	3/1/10	3411.12	44.34	3366.78
	7/30/10	3411.12	44.40	3366.72
	5/5/11	3411.12	44.55	3366.57
	11/3/11	3411.12	45.06	3366.06
	5/2/12	3411.12	44.85	3366.27
	10/23/12	3411.12	45.18	3365.94
	4/29/13	3411.12	44.98	3366.14
MW079SA	10/29/13	3411.12	45.45	3365.67
	5/5/14	3411.12	45.00	3366.12
	11/3/14	3411.12	45.13	3365.99
	3/30/04	3408.80	48.78	3360.02
	6/7/04	3408.80	46.61	3362.19
	9/14/04	3408.80	48.73	3360.07
	11/29/04	3408.80	46.27	3362.53
	5/23/05	3408.80	47.09	3361.71
	1/17/06	3408.80	46.31	3362.49
	6/16/06	3408.80	46.33	3362.47
	3/28/07	3408.80	45.81	3362.99
	9/6/07	3408.80	45.68	3363.12
	3/21/08	3408.80	45.54	3363.26
	8/4/08	3408.80	46.31	3362.49
	3/11/09	3408.80	46.03	3362.77
	7/29/09	3408.80	46.55	3362.25
	3/1/10	3408.80	46.61	3362.19
	8/3/10	3408.80	46.58	3362.22
	5/5/11	3408.80	46.74	3362.06
	11/3/11	3408.80	47.43	3361.37
	5/2/12	3408.80	47.15	3361.65
	10/23/12	3408.80	47.53	3361.27
	4/29/13	3408.80	47.25	3361.55
	10/29/13	3408.80	47.87	3360.93
	5/5/14	3408.80	47.25	3361.55
	11/3/14	3408.80	47.51	3361.29

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW080SA	3/30/04	3408.92	48.82	3360.10
	6/7/04	3408.92	48.70	3360.22
	9/14/04	3408.92	48.81	3360.11
	11/29/04	3408.92	48.36	3360.56
	3/16/05	3408.92	47.56	3361.36
	5/23/05	3408.92	48.18	3360.74
	1/17/06	3408.92	46.42	3362.50
	6/16/06	3408.92	46.46	3362.46
	3/28/07	3408.92	45.85	3363.07
	9/6/07	3408.92	45.80	3363.12
	3/21/08	3408.92	45.70	3363.22
	8/4/08	3408.92	46.45	3362.47
	3/11/09	3408.92	45.70	3363.22
	7/29/09	3408.92	46.66	3362.26
	3/1/10	3408.92	46.62	3362.30
	8/3/10	3408.92	46.74	3362.18
	5/5/11	3408.92	46.84	3362.08
	11/3/11	3408.92	47.52	3361.40
	5/2/12	3408.92	47.25	3361.67
	10/23/12	3408.92	47.61	3361.31
	4/29/13	3408.92	47.32	3361.60
Plugged and Abandoned				
MW081SA	3/30/04	3408.28	48.50	3359.78
	6/7/04	3408.28	46.80	3361.48
	9/14/04	3408.28	48.43	3359.85
	11/29/04	3408.28	47.99	3360.29
	3/16/05	3408.28	47.17	3361.11
	5/23/05	3408.28	47.12	3361.16
	1/17/06	3408.28	46.02	3362.26
	6/16/06	3408.28	46.02	3362.26
	3/28/07	3408.28	45.42	3362.86
	9/6/07	3408.28	45.34	3362.94
	3/21/08	3408.28	45.21	3363.07
	8/4/08	3408.28	45.98	3362.30
	3/11/09	3408.28	46.14	3362.14
	7/29/09	3408.28	46.23	3362.05
	3/1/10	3408.28	46.80	3361.48
	8/3/10	3408.28	46.62	3361.66
	5/5/11	3408.28	46.41	3361.87
	11/3/11	3408.28	47.13	3361.15
	5/2/12	3408.28	46.82	3361.46
	10/23/12	3408.28	47.21	3361.07
	4/29/13	3408.28	46.91	3361.37
Plugged and Abandoned				
MW082SA	3/30/04	3406.25	55.46	3350.79
	6/7/04	3406.25	55.35	3350.90
	9/14/04	3406.25	55.22	3351.03
	11/29/04	3406.25	55.19	3351.06
	3/1/05	3406.25	54.81	3351.44
	5/23/05	3406.25	54.66	3351.59
	1/17/06	3406.25	54.00	3352.25
	6/14/06	3406.25	53.61	3352.64
	3/22/07	3406.25	52.94	3353.31
	9/5/07	3406.25	52.43	3353.82
	3/19/08	3406.25	52.12	3354.13
	8/4/08	3406.25	52.03	3354.22
	3/11/09	3406.25	52.09	3354.16
	7/29/09	3406.25	51.97	3354.28
	3/1/10	3406.25	51.97	3354.28
	7/30/10	3406.25	51.91	3354.34
	5/4/11	3406.25	52.03	3354.22
	11/2/11	3406.25	52.25	3354.00
	5/2/12	3406.25	52.27	3353.98
	10/23/12	3406.25	52.30	3353.95
	4/29/13	3406.25	52.27	3353.98
Plugged and Abandoned				

TABLE 1
SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW083SA	3/30/04	3406.11	55.33	3350.78
	6/7/04	3406.11	55.22	3350.89
	9/14/04	3406.11	54.18	3351.93
	11/29/04	3406.11	55.19	3350.92
	3/1/05	3406.11	54.85	3351.26
	5/23/05	3406.11	54.58	3351.53
	1/17/06	3406.11	53.93	3352.18
	6/14/06	3406.11	53.51	3352.60
	3/22/07	3406.11	52.83	3353.28
	9/5/07	3406.11	52.34	3353.77
	3/19/08	3406.11	52.04	3354.07
	8/4/08	3406.11	51.94	3354.17
	3/11/09	3406.11	52.00	3354.11
	7/29/09	3406.11	51.91	3354.20
	3/1/10	3406.11	51.89	3354.22
	7/30/10	3406.11	51.82	3354.29
	5/4/11	3406.11	57.95	3348.16
	11/2/11	3406.11	52.16	3353.95
	5/2/12	3406.11	52.17	3353.94
	10/23/12	3406.11	52.20	3353.91
	4/29/13	3406.11	52.18	3353.93
	10/28/13	3406.11	52.42	3353.69
	5/5/14	3406.11	52.11	3354.00
	11/3/14	3406.11	52.15	3353.96
MW084SA	3/30/04	3405.98	54.83	3351.15
	6/7/04	3405.98	54.78	3351.20
	9/14/04	3405.98	54.70	3351.28
	11/29/04	3405.98	54.61	3351.37
	3/24/05	3405.98	54.27	3351.71
	5/23/05	3405.98	54.09	3351.89
	1/17/06	3405.98	53.45	3352.53
	6/14/06	3405.98	53.02	3352.96
	3/21/07	3405.98	NM	NM
	9/5/07	3405.98	51.86	3354.12
	3/19/08	3405.98	51.55	3354.43
	8/4/08	3405.98	51.47	3354.51
	3/11/09	3405.98	51.50	3354.48
	7/29/09	3405.98	51.40	3354.58
	3/1/10	3405.98	51.52	3354.46
	7/30/10	3405.98	51.32	3354.66
	5/4/11	3405.98	54.45	3351.53
	11/2/11	3405.98	51.65	3354.33
	5/2/12	3405.98	51.65	3354.33
	10/23/12	3405.98	51.71	3354.27
	4/29/13	3405.98	51.70	3354.28
	10/28/13	3405.98	51.86	3354.12
	5/5/14	3405.98	51.63	3354.35
	11/3/14	3405.98	51.68	3354.30

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW085SA	3/30/04	3405.98	55.24	3350.74
	6/7/04	3405.98	55.08	3350.90
	9/14/04	3405.98	55.08	3350.90
	11/29/04	3405.98	54.98	3351.00
	3/24/05	3405.98	54.66	3351.32
	5/23/05	3405.98	54.44	3351.54
	1/17/06	3405.98	53.82	3352.16
	6/14/06	3405.98	53.40	3352.58
	3/21/07	3405.98	NM	NM
	9/5/07	3405.98	52.24	3353.74
	3/19/08	3405.98	51.92	3354.06
	8/4/08	3405.98	51.84	3354.14
	3/11/09	3405.98	51.90	3354.08
	7/29/09	3405.98	51.79	3354.19
	3/1/10	3405.98	51.89	3354.09
	7/30/10	3405.98	51.71	3354.27
	5/4/11	3405.98	51.82	3354.16
	11/2/11	3405.98	52.05	3353.93
	5/2/12	3405.98	52.04	3353.94
	10/23/12	3405.98	52.10	3353.88
	4/29/13	3405.98	52.07	3353.91
MW086SA	10/28/13	3405.98	52.32	3353.66
	5/5/14	3405.98	52.00	3353.98
	11/3/14	3405.98	52.04	3353.94
	9/14/04	3401.86	53.74	3348.12
	3/31/05	3401.86	53.08	3348.78
	5/23/05	3401.86	52.83	3349.03
	1/17/06	3401.86	52.18	3349.68
	6/15/06	3401.86	51.86	3350.00
	4/11/07	3401.86	51.38	3350.48
	9/20/07	3401.86	50.87	3350.99
	3/19/08	3401.86	50.71	3351.15
	8/4/08	3401.86	50.72	3351.14
	3/11/09	3401.86	50.91	3350.95
	7/29/09	3401.86	50.67	3351.19
	3/1/10	3401.86	50.74	3351.12
	7/30/10	3401.86	50.64	3351.22
	5/4/11	3401.86	50.92	3350.94
MW087A	11/3/11	3401.86	21.20	3380.66
	5/1/12	3401.86	51.16	3350.70
	10/23/12	3401.86	51.09	3350.77
	4/29/13	3401.86	51.01	3350.85
	10/28/13	3401.86	51.15	3350.71
	5/5/14	3401.86	50.81	3351.05
	11/3/14	3401.86	50.86	3351.00
	9/24/04	3430.75	50.05	3380.70
	3/31/05	3430.75	50.85	3379.90
	5/23/05	3430.75	50.74	3380.01
	1/17/06	3430.75	50.15	3380.60
	6/19/06	3430.75	49.95	3380.80
	4/13/07	3430.75	49.41	3381.34
	3/24/08	3430.75	49.51	3381.24
	3/11/09	3430.75	49.84	3380.91
	3/1/10	3430.75	50.13	3380.62
	8/3/10	3430.75	50.17	3380.58
	5/4/11	3430.75	49.94	3380.81
	11/4/11	3430.75	49.89	3380.86
	5/4/12	3430.75	50.21	3380.54
	10/23/12	3430.75	50.42	3380.33
	5/2/13	3430.75	50.60	3380.15
	10/28/13	3430.75	50.63	3380.12
	5/5/14	3430.75	50.68	3380.07
	11/4/14	3430.75	50.42	3380.33

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW089SA	1/17/06	3428.09	48.30	3379.79
	6/20/06	3428.09	48.10	3379.99
	4/5/07	3428.09	47.87	3380.22
	3/21/08	3428.09	47.79	3380.30
	3/11/09	3428.09	48.30	3379.79
	3/1/10	3428.09	48.54	3379.55
	8/2/10	3428.09	48.54	3379.55
	5/4/11	3428.09	48.45	3379.64
	11/4/11	3428.09	48.61	3379.48
	5/3/12	3428.09	48.77	3379.32
	10/23/12	3428.09	48.99	3379.10
	5/1/13	3428.09	49.19	3378.90
	10/29/13	3428.09	49.35	3378.74
	5/5/14	3428.09	49.41	3378.68
	11/3/14	3428.09	48.90	3379.19
MW090SA	1/18/06	3428.33	48.76	3379.57
	6/20/06	3428.33	48.57	3379.76
	4/5/07	3428.33	48.42	3379.91
	3/21/08	3428.33	48.29	3380.04
	3/11/09	3428.33	48.79	3379.54
	7/29/09	3428.33	48.98	3379.35
	3/1/10	3428.33	49.00	3379.33
	8/2/10	3428.33	49.02	3379.31
	5/4/11	3428.33	48.90	3379.43
	11/4/11	3428.33	49.11	3379.22
	5/3/12	3428.33	49.26	3379.07
	10/23/12	3428.33	49.51	3378.82
	5/1/13	3428.33	49.67	3378.66
	10/29/13	3428.33	49.90	3378.43
	5/5/14	3428.33	49.91	3378.42
	11/3/14	3428.33	49.43	3378.90
MW091SA	1/17/06	3422.45	43.90	3378.55
	6/20/06	3422.45	43.86	3378.59
	4/5/07	3422.45	43.37	3379.08
	3/19/08	3422.45	43.33	3379.12
	3/11/09	3422.45	43.84	3378.61
	3/1/10	3422.45	43.90	3378.55
	8/2/10	3422.45	43.93	3378.52
	5/4/11	3422.45	43.85	3378.60
	11/4/11	3422.45	44.15	3378.30
	5/2/12	3422.45	44.15	3378.30
	10/24/12	3422.45	44.50	3377.95
	4/30/13	3422.45	44.70	3377.75
	10/28/13	3422.45	45.10	3377.35
	5/5/14	3422.45	45.01	3377.44
	11/3/14	3422.45	44.45	3378.00

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
MW092SA	1/17/06	3422.51	43.94	3378.57
	6/20/06	3422.51	43.62	3378.89
	4/5/07	3422.51	43.50	3379.01
	3/19/08	3422.51	43.38	3379.13
	3/11/09	3422.51	43.89	3378.62
	3/1/10	3422.51	43.92	3378.59
	8/2/10	3422.51	43.94	3378.57
	5/4/11	3422.51	43.91	3378.60
	11/4/11	3422.51	44.17	3378.34
	5/2/12	3422.51	44.16	3378.35
	10/24/12	3422.51	44.54	3377.97
	4/30/13	3422.51	44.74	3377.77
	Plugged and Abandoned			
MW093SA	1/17/06	3422.72	44.13	3378.59
	6/20/06	3422.72	43.60	3379.12
	4/5/07	3422.72	43.56	3379.16
	3/24/08	3422.72	43.55	3379.17
	3/11/09	3422.72	44.12	3378.60
	3/1/10	3422.72	44.13	3378.59
	8/2/10	3422.72	44.70	3378.02
	5/4/11	3422.72	44.14	3378.58
	11/4/11	3422.72	44.42	3378.30
	5/2/12	3422.72	44.43	3378.29
	10/24/12	3422.72	44.78	3377.94
	4/30/13	3422.72	45.00	3377.72
	10/28/13	3422.72	45.30	3377.42
	5/5/14	3422.72	45.31	3377.41
	11/3/14	3422.72	44.79	3377.93
RW001	11/16/99	3428.32	50.41	3377.91
	5/15/01	3428.32	49.65	3378.67
	8/23/01	3428.32	50.04	3378.28
	1/21/02	3428.32	49.85	3378.47
	4/4/02	3428.32	49.97	3378.35
	9/3/02	3428.32	49.88	3378.44
	12/2/02	3428.32	49.53	3378.79
	1/31/03	3428.32	49.63	3378.69
	3/28/03	3428.32	49.62	3378.70
	5/19/03	3428.32	49.51	3378.81
	9/9/03	3428.32	49.66	3378.66
	12/3/03	3428.32	49.71	3378.61
	3/30/04	3428.32	49.81	3378.51
	6/7/04	3428.32	49.75	3378.57
	9/17/04	3428.32	49.34	3378.98
	11/29/04	3428.32	48.80	3379.52
	3/31/05	3428.32	48.43	3379.89
	5/23/05	3428.32	50.25	3378.07
	Plugged and Abandoned			
IW003	12/16/03	3406.68	45.47	3361.21
	2/18/04	3406.68	45.37	3361.31
	3/30/04	3406.68	45.37	3361.31
	6/3/04	3406.68	44.39	3362.29
	11/29/04	3406.68	45.95	3360.73
	3/17/05	3406.68	45.26	3361.42
	5/23/05	3406.68	45.10	3361.58
	1/17/06	3406.68	44.76	3361.92
	6/16/06	3406.68	44.77	3361.91
	4/9/07	3406.68	46.30	3360.38
	3/21/08	3406.68	44.71	3361.97
	3/10/09	3406.68	44.96	3361.72
	3/1/10	3406.68	45.19	3361.49
	8/3/10	3406.68	45.20	3361.48
	5/5/11	3406.68	45.29	3361.39
	11/3/11	3406.68	45.61	3361.07
	5/2/12	3406.68	45.37	3361.31
	10/23/12	3406.68	45.57	3361.11
	4/29/13	3406.68	45.43	3361.25
	10/29/13	3406.68	45.64	3361.04
	5/5/14	3406.68	45.51	3361.17
	11/3/14	3406.68	45.67	3361.01

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
IW004	12/16/03	3406.31	45.04	3361.27
	2/18/04	3406.31	44.95	3361.36
	3/30/04	3406.31	44.97	3361.34
	6/7/04	3406.31	45.99	3360.32
	11/29/04	3406.31	45.31	3361.00
	3/17/05	3406.31	44.83	3361.48
	5/23/05	3406.31	44.43	3361.88
	1/17/06	3406.31	44.52	3361.79
	6/16/06	3406.31	44.36	3361.95
	4/9/07	3406.31	44.15	3362.16
	3/21/08	3406.31	44.25	3362.06
	3/10/09	3406.31	44.44	3361.87
	3/1/10	3406.31	44.65	3361.66
	8/3/10	3406.31	44.75	3361.56
	5/5/11	3406.31	44.91	3361.40
	11/3/11	3406.31	45.14	3361.17
	5/2/12	3406.31	45.00	3361.31
	10/23/12	3406.31	46.16	3360.15
	4/29/13	3406.31	45.10	3361.21
	10/29/13	3406.31	45.31	3361.00
	5/5/14	3406.31	45.16	3361.15
	11/3/14	3406.31	45.30	3361.01
IW005	12/16/03	3405.36	45.85	3359.51
	2/18/04	3405.36	43.85	3361.51
	3/30/04	3405.36	43.84	3361.52
	6/7/04	3405.36	45.02	3360.34
	11/29/04	3405.36	44.52	3360.84
	3/21/05	3405.36	43.72	3361.64
	5/23/05	3405.36	42.71	3362.65
	1/17/06	3405.36	43.75	3361.61
	6/16/06	3405.36	43.62	3361.74
	4/12/07	3405.36	43.82	3361.54
	3/21/08	3405.36	43.51	3361.85
	3/10/09	3405.36	43.68	3361.68
	3/1/10	3405.36	43.84	3361.52
	7/30/10	3405.36	43.88	3361.48
	5/5/11	3405.36	43.95	3361.41
	11/3/11	3405.36	44.18	3361.18
	5/2/12	3405.36	44.00	3361.36
	10/23/12	3405.36	44.29	3361.07
	4/29/13	3405.36	44.14	3361.22
	10/29/13	3405.36	44.38	3360.98
	5/5/14	3405.36	43.97	3361.39
	11/3/14	3405.36	44.33	3361.03
IW006	12/16/03	3404.36	45.14	3359.22
	2/18/04	3404.36	43.24	3361.12
	3/30/04	3404.36	43.24	3361.12
	6/7/04	3404.36	44.18	3360.18
	11/29/04	3404.36	43.75	3360.61
	3/21/05	3404.36	42.86	3361.50
	5/23/05	3404.36	42.54	3361.82
	1/17/06	3404.36	42.68	3361.68
	6/16/06	3404.36	42.57	3361.79
	3/27/07	3404.36	42.49	3361.87
	4/12/07	3404.36	42.32	3362.04
	3/21/08	3404.36	42.65	3361.71
	3/10/09	3404.36	42.78	3361.62
	3/1/10	3404.36	44.73	3359.63
	7/30/10	3404.36	47.99	3356.37
	5/5/11	3404.36	43.04	3361.32
	11/3/11	3404.36	43.30	3361.06
	5/2/12	3404.36	43.13	3361.23
	10/23/12	3404.36	43.44	3360.92
	4/29/13	3404.36	43.27	3361.09
	10/29/13	3404.36	43.55	3360.81
	5/5/14	3404.36	43.11	3361.25
	11/3/14	3404.36	43.53	3360.83

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
IW007	12/16/03	3405.31	45.65	3359.66
	2/18/04	3405.31	44.09	3361.22
	3/30/04	3405.31	44.31	3361.00
	6/7/04	3405.31	43.54	3361.77
	11/29/04	3405.31	44.62	3360.69
	3/22/05	3405.31	43.24	3362.07
	5/23/05	3405.31	43.83	3361.48
	1/17/06	3405.31	43.91	3361.40
	6/16/06	3405.31	43.94	3361.37
	3/26/07	3405.31	43.48	3361.83
	3/21/08	3405.31	43.79	3361.52
	3/10/09	3405.31	44.21	3361.10
	3/1/10	3405.31	45.09	3360.22
	7/30/10	3405.31	45.80	3359.51
	5/5/11	3405.31	45.45	3359.86
	11/3/11	3405.31	46.46	3358.85
	5/2/12	3405.31	46.19	3359.12
	10/23/12	3405.31	46.93	3358.38
	4/29/13	3405.31	46.70	3358.61
	10/29/13	3405.31	47.48	3357.83
	5/5/14	3405.31	47.15	3358.16
	11/3/14	3405.31	47.37	3357.94
IW008	12/16/03	3405.37	50.61	3354.76
	2/18/04	3405.37	50.13	3355.24
	3/30/04	3405.37	51.08	3354.29
	6/7/04	3405.37	45.54	3359.83
	11/29/04	3405.37	43.98	3361.39
	3/22/05	3405.37	43.55	3361.82
	5/23/05	3405.37	43.85	3361.52
	1/17/06	3405.37	44.03	3361.34
	6/16/06	3405.37	44.07	3361.30
	3/23/07	3405.37	46.50	3358.87
	3/21/08	3405.37	44.80	3360.57
	3/10/09	3405.37	48.17	3357.20
	3/1/10	3405.37	47.10	3358.27
	7/30/10	3405.37	44.74	3360.63
	5/5/11	3405.37	44.69	3360.68
	11/3/11	3405.37	44.85	3360.52
	5/2/12	3405.37	44.78	3360.59
	10/23/12	3405.37	44.89	3360.48
	4/29/13	3405.37	44.94	3360.43
	10/29/13	3405.37	44.85	3360.52
	5/5/14	3405.37	44.85	3360.52
	11/3/14	3405.37	45.03	3360.34
IW009	12/16/03	3406.07	47.22	3358.85
	2/18/04	3406.07	47.40	3358.67
	3/30/04	3406.07	47.49	3358.58
	6/7/04	3406.07	44.55	3361.52
	11/29/04	3406.07	44.74	3361.33
	3/22/05	3406.07	44.30	3361.77
	5/23/05	3406.07	44.30	3361.77
	1/17/06	3406.07	45.02	3361.05
	6/16/06	3406.07	45.41	3360.66
	3/23/07	3406.07	46.27	3359.80
	3/21/08	3406.07	46.42	3359.65
	3/10/09	3406.07	47.12	3358.95
	3/1/10	3406.07	47.36	3358.71
	7/30/10	3406.07	47.70	3358.37
	5/5/11	3406.07	47.50	3358.57
	11/3/11	3406.07	47.89	3358.18
	5/2/12	3406.07	47.70	3358.37
	10/23/12	3406.07	47.57	3358.50
	4/29/13	3406.07	47.52	3358.55
	10/29/13	3406.07	40.10	3365.97
	5/5/14	3406.07	47.31	3358.76
	11/3/14	3406.07	48.01	3358.06

TABLE 1
SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
IW010	12/16/03	3405.82	52.88	3352.94
	2/18/04	3405.82	53.48	3352.34
	3/30/04	3405.82	53.52	3352.30
	6/7/04	3405.82	54.65	3351.17
	11/29/04	3405.82	54.45	3351.37
	3/22/05	3405.82	53.45	3352.37
	5/23/05	3405.82	53.21	3352.61
	1/17/06	3405.82	53.45	3352.37
	6/16/06	3405.82	52.93	3352.89
	3/23/07	3405.82	53.48	3352.34
	3/21/08	3405.82	53.30	3352.52
	3/10/09	3405.82	53.55	3352.27
	3/1/10	3405.82	53.59	3352.23
	7/30/10	3405.82	53.46	3352.36
	5/5/11	3405.82	53.78	3352.04
	11/3/11	3405.82	53.90	3351.92
	5/2/12	3405.82	53.86	3351.96
	10/23/12	3405.82	54.04	3351.78
	4/29/13	3405.82	54.05	3351.77
	10/29/13	3405.82	54.08	3351.74
	5/5/14	3405.82	53.75	3352.07
	11/3/14	3405.82	53.90	3351.92
IW011	12/16/03	3406.83	57.60	3349.23
	2/18/04	3406.83	57.59	3349.24
	3/30/04	3406.83	57.64	3349.19
	6/7/04	3406.83	58.79	3348.04
	11/29/04	3406.83	58.81	3348.02
	3/23/05	3406.83	58.19	3348.64
	5/23/05	3406.83	57.51	3349.32
	1/17/06	3406.83	57.79	3349.04
	6/16/06	3406.83	56.93	3349.90
	3/22/07	3406.83	56.21	3350.62
	3/21/08	3406.83	55.44	3351.39
	3/10/09	3406.83	55.51	3351.32
	3/1/10	3406.83	55.48	3351.35
	7/30/10	3406.83	55.36	3351.47
	5/5/11	3406.83	55.55	3351.28
	11/3/11	3406.83	55.85	3350.98
	5/2/12	3406.83	55.83	3351.00
	10/23/12	3406.83	55.87	3350.96
	4/29/13	3406.83	55.83	3351.00
	10/29/13	3406.83	55.90	3350.93
	5/5/14	3406.83	55.60	3351.23
	11/3/14	3406.83	65.80	3341.03
IW012	2/18/04	3405.92	54.99	3350.93
	3/30/04	3405.92	Dry	Dry
	6/7/04	3405.92	53.24	3352.68
	11/29/04	3405.92	56.03	3349.89
	3/24/05	3405.92	55.03	3350.89
	5/23/05	3405.92	53.20	3352.72
	1/17/06	3405.92	Dry	Dry
	6/16/06	3405.92	55.44	3350.48
	3/22/07	3405.92	58.98	3346.94
	3/21/08	3405.92	54.29	3351.63
	3/10/09	3405.92	54.26	3351.66
	3/1/10	3405.92	54.18	3351.74
	7/30/10	3405.92	54.11	3351.81
	5/5/11	3405.92	54.29	3351.63
	11/3/11	3405.92	54.53	3351.39
	5/2/12	3405.92	54.83	3351.09
	10/23/12	3405.92	54.55	3351.37
	4/29/13	3405.92	54.55	3351.37
	10/29/13	3405.92	54.69	3351.23
	5/5/14	3405.92	54.17	3351.75
	11/3/14	3405.92	54.24	3351.68

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
IW013	2/18/04	3406.62	56.27	3350.35
	3/30/04	3406.62	56.34	3350.28
	6/7/04	3406.62	51.56	3355.06
	11/29/04	3406.62	57.36	3349.26
	3/24/05	3406.62	56.72	3349.90
	5/23/05	3406.62	56.81	3349.81
	1/17/06	3406.62	56.15	3350.47
	6/16/06	3406.62	55.72	3350.90
	3/22/07	3406.62	NM	NM
	3/21/08	3406.62	54.13	3352.49
	3/10/09	3406.62	54.12	3352.50
	3/1/10	3406.62	54.33	3352.29
	7/30/10	3406.62	53.94	3352.68
	5/5/11	3406.62	54.10	3352.52
	11/3/11	3406.62	54.35	3352.27
	5/2/12	3406.62	54.33	3352.29
	10/23/12	3406.62	54.38	3352.24
	4/29/13	3406.62	54.37	3352.25
	10/29/13	3406.62	54.42	3352.20
	5/5/14	3406.62	54.16	3352.46
	11/3/14	3406.62	54.30	3352.32
IW014	2/18/04	3405.48	54.55	3350.93
	3/30/04	3405.48	54.59	3350.89
	6/7/04	3405.48	NR	NR
	11/29/04	3405.48	55.88	3349.60
	3/24/05	3405.48	55.54	3349.94
	5/23/05	3405.48	55.02	3350.46
	1/17/06	3405.48	54.66	3350.82
	6/16/06	3405.48	54.25	3351.23
	3/26/07	3405.48	53.30	3352.18
	3/21/08	3405.48	52.64	3352.84
	3/10/09	3405.48	52.57	3352.91
	3/1/10	3405.48	54.27	3351.21
	7/30/10	3405.48	52.37	3353.11
	5/5/11	3405.48	52.50	3352.98
	11/3/11	3405.48	52.70	3352.78
	5/2/12	3405.48	52.66	3352.82
	10/23/12	3405.48	52.74	3352.74
	4/29/13	3405.48	52.75	3352.73
	10/29/13	3405.48	52.78	3352.70
	5/5/14	3405.48	52.53	3352.95
	11/3/14	3405.48	52.70	3352.78
IW015	2/18/04	3406.05	45.43	3360.62
	3/30/04	3406.05	45.45	3360.60
	6/7/04	3406.05	45.91	3360.14
	11/29/04	3406.05	46.33	3359.72
	3/16/05	3406.05	44.97	3361.08
	5/23/05	3406.05	NR	NR
	1/17/06	3406.05	44.83	3361.22
	6/16/06	3406.05	44.58	3361.47
	4/9/07	3406.05	44.38	3361.67
	3/21/08	3406.05	44.20	3361.85
	3/10/08	3406.05	44.58	3361.47
	3/1/10	3406.05	44.79	3361.26
	8/3/10	3406.05	44.91	3361.14
	5/5/11	3406.05	45.05	3361.00
	11/3/11	3406.05	45.60	3360.45
	5/2/12	3406.05	45.31	3360.74
	10/23/12	3406.05	45.64	3360.41
	4/29/13	3406.05	45.35	3360.70
	10/29/13	3406.05	45.70	3360.35
	5/5/14	3406.05	45.40	3360.65
	11/3/14	3406.05	45.71	3360.34

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
IW016	2/18/04	3408.29	48.16	3360.13
	3/30/04	3408.29	48.19	3360.10
	6/3/04	3408.29	49.11	3359.18
	11/29/04	3408.29	49.26	3359.03
	4/18/05	3408.29	48.50	3359.79
	5/23/05	3408.29	48.51	3359.78
	1/17/06	3408.29	47.45	3360.84
	6/16/06	3408.29	47.09	3361.20
	3/28/07	3408.29	46.33	3361.96
	3/21/08	3408.29	46.21	3362.08
	3/10/08	3408.29	46.70	3361.59
	3/1/10	3408.29	47.21	3361.08
	8/3/10	3408.29	47.27	3361.02
	5/5/11	3408.29	47.40	3360.89
	11/3/11	3408.29	48.06	3360.23
	5/2/12	3408.29	47.78	3360.51
	10/23/12	3408.29	48.16	3360.13
	4/29/13	3408.29	47.86	3360.43
	10/29/13	3408.29	48.25	3360.04
IW018	5/5/14	3408.29	47.88	3360.41
	11/3/14	3408.29	48.15	3360.14
	1/17/06	3424.54	45.94	3378.60
	6/20/06	3424.54	45.82	3378.72
	4/9/07	3424.54	45.92	3378.62
	3/19/08	3424.54	45.59	3378.95
	3/10/09	3424.54	46.05	3378.49
	3/1/10	3424.54	44.87	3379.67
	8/2/10	3424.54	46.18	3378.36
	5/5/11	3424.54	45.94	3378.60
	11/4/11	3424.54	46.30	3378.24
	5/2/12	3424.54	46.37	3378.17
	10/24/12	3424.54	46.74	3377.80
	4/30/13	3424.54	46.88	3377.66
IW019	10/28/13	3424.54	47.16	3377.38
	5/5/14	3424.54	47.24	3377.30
	11/3/14	3424.54	46.75	3377.79
	1/17/06	3423.78	45.13	3378.65
	6/20/06	3423.78	44.95	3378.83
	4/6/07	3423.78	44.85	3378.93
	3/19/08	3423.78	44.74	3379.04
	3/10/09	3423.78	45.23	3378.55
	3/1/10	3423.78	44.94	3378.84
	8/2/10	3423.78	45.32	3378.46
	5/5/11	3423.78	45.15	3378.63
	11/4/11	3423.78	45.42	3378.36
	5/2/12	3423.78	45.53	3378.25
	10/24/12	3423.78	45.91	3377.87
	4/30/13	3423.78	46.10	3377.68
	10/28/13	3423.78	46.50	3377.28
	5/5/14	3423.78	46.41	3377.37
	11/3/14	3423.78	45.93	3377.85

TABLE 1

SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
IW020	1/17/06	3423.50	44.76	3378.74
	6/20/06	3423.50	44.55	3378.95
	4/10/07	3423.50	44.33	3379.17
	4/9/08	3423.50	44.33	3379.17
	3/10/09	3423.50	44.84	3378.66
	3/1/10	3423.50	44.75	3378.75
	7/30/10	3423.50	44.53	3378.97
	5/5/11	3423.50	44.81	3378.69
	11/4/11	3423.50	45.05	3378.45
	5/2/12	3423.50	45.09	3378.41
	10/24/12	3423.50	45.52	3377.98
	4/30/13	3423.50	45.70	3377.80
	Plugged and Abandoned			
IW021	1/17/06	3423.16	44.44	3378.72
	6/20/06	3423.16	44.15	3379.01
	4/5/07	3423.16	44.04	3379.12
	3/19/08	3423.16	43.91	3379.25
	3/10/09	3423.16	44.42	3378.74
	3/1/10	3423.16	44.75	3378.41
	7/30/10	3423.16	44.50	3378.66
	5/5/11	3423.16	44.44	3378.72
	11/4/11	3423.16	44.70	3378.46
	5/2/12	3423.16	44.67	3378.49
	10/24/12	3423.16	45.08	3378.08
	4/30/13	3423.16	45.30	3377.86
	10/28/13	3423.16	45.57	3377.59
IW022	1/17/06	3423.16	44.39	3378.77
	6/20/06	3423.16	44.10	3379.06
	4/10/07	3423.16	43.87	3379.29
	4/9/08	3423.16	43.83	3379.33
	3/10/09	3423.16	44.33	3378.83
	3/1/10	3423.16	44.43	3378.73
	7/30/10	3423.16	44.46	3378.70
	5/5/11	3423.16	44.35	3378.81
	11/4/11	3423.16	44.65	3378.51
	5/2/12	3423.16	44.66	3378.50
	10/24/12	3423.16	44.99	3378.17
	4/30/13	3423.16	45.21	3377.95
	10/28/13	3423.16	44.44	3378.72
IW023	1/17/06	3426.05	47.25	3378.80
	6/20/06	3426.05	41.82	3384.23
	4/10/07	3426.05	46.65	3379.40
	3/21/08	3426.05	46.76	3379.29
	3/10/09	3426.05	47.14	3378.91
	7/28/09	3426.05	47.33	3378.72
	3/1/10	3426.05	47.29	3378.76
	7/30/10	3426.05	47.27	3378.78
	5/5/11	3426.05	47.22	3378.83
	11/4/11	3426.05	47.49	3378.56
	5/2/12	3426.05	47.53	3378.52
	10/24/12	3426.05	47.80	3378.25
	4/30/13	3426.05	48.01	3378.04
	10/28/13	3426.05	48.25	3377.80
	5/5/14	3426.05	48.31	3377.74
	11/3/14	3426.05	47.80	3378.25

TABLE 1
SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
IW024	1/18/06	3426.63	47.15	3379.48
	6/20/06	3426.63	47.10	3379.53
	4/4/07	3426.63	46.85	3379.78
	3/21/08	3426.63	47.70	3378.93
	3/10/09	3426.63	47.25	3379.38
	7/28/09	3426.63	47.45	3379.18
	3/1/10	3426.63	47.45	3379.18
	8/2/10	3426.63	47.47	3379.16
	5/5/11	3426.63	47.32	3379.31
	11/4/11	3426.63	47.79	3378.84
	5/3/12	3426.63	47.64	3378.99
	10/23/12	3426.63	48.02	3378.61
	5/1/13	3426.63	48.15	3378.48
	10/29/13	3426.63	48.37	3378.26
	5/5/14	3426.63	48.40	3378.23
	11/3/14	3426.63	47.96	3378.67
IW025	1/18/06	3427.62	48.09	3379.53
	6/20/06	3427.62	47.95	3379.67
	4/4/07	3427.62	47.72	3379.90
	3/21/08	3427.62	48.10	3379.52
	3/10/09	3427.62	47.20	3380.42
	7/28/09	3427.62	48.44	3379.18
	3/1/10	3427.62	48.52	3379.10
	8/2/10	3427.62	48.53	3379.09
	5/5/11	3427.62	48.37	3379.25
	11/4/11	3427.62	48.63	3378.99
	5/3/12	3427.62	49.72	3377.90
	10/23/12	3427.62	49.01	3378.61
	5/1/13	3427.62	49.20	3378.42
	10/29/13	3427.62	49.42	3378.20
	5/5/14	3427.62	49.45	3378.17
	11/3/14	3427.62	49.00	3378.62
IW026	1/18/06	3428.01	48.42	3379.59
	6/20/06	3428.01	48.26	3379.75
	4/4/07	3428.01	48.10	3379.91
	3/21/08	3428.01	48.05	3379.96
	3/10/09	3428.01	48.58	3379.43
	7/28/09	3428.01	48.76	3379.25
	3/1/10	3428.01	48.23	3379.78
	8/2/10	3428.01	48.72	3379.29
	5/5/11	3428.01	48.65	3379.36
	11/4/11	3428.01	49.90	3378.11
	5/3/12	3428.01	49.00	3379.01
	10/23/12	3428.01	49.70	3378.31
	5/1/13	3428.01	49.41	3378.60
	10/29/13	3428.01	49.61	3378.40
	5/5/14	3428.01	49.64	3378.37
	11/3/14	3428.01	49.22	3378.79

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
IW027	1/18/06	3428.17	48.55	3379.62
	6/20/06	3428.17	48.33	3379.84
	4/4/07	3428.17	48.17	3380.00
	3/21/08	3428.17	48.10	3380.07
	3/11/09	3428.17	48.66	3379.51
	3/1/10	3428.17	48.78	3379.39
	8/2/10	3428.17	48.80	3379.37
	5/5/11	3428.17	48.65	3379.52
	11/4/11	3428.17	48.90	3379.27
	5/3/12	3428.17	49.00	3379.17
	10/23/12	3428.17	49.29	3378.88
	5/1/13	3428.17	49.45	3378.72
	10/29/13	3428.17	49.65	3378.52
	5/5/14	3428.17	49.69	3378.48
	11/3/14	3428.17	49.20	3378.97
IW028	3/16/05	3428.18	48.70	3379.48
	5/23/05	3428.18	49.09	3379.09
	6/16/05	3428.18	49.10	3379.08
	1/17/06	3428.18	48.53	3379.65
	6/20/06	3428.18	48.30	3379.88
	4/4/07	3428.18	48.09	3380.09
	4/9/08	3428.18	47.99	3380.19
	3/11/09	3428.18	48.51	3379.67
	3/1/10	3428.18	48.74	3379.44
	8/2/10	3428.18	48.76	3379.42
	5/5/11	3428.18	48.62	3379.56
	11/4/11	3428.18	48.82	3379.36
	5/3/12	3428.18	48.96	3379.22
	10/23/12	3428.18	49.21	3378.97
	5/1/13	3428.18	49.41	3378.77
IW029P	10/29/13	3428.18	49.60	3378.58
	5/5/14	3428.18	49.63	3378.55
IW030	11/3/14	3428.18	49.15	3379.03
IW030P	5/5/14	3427.96	48.48	3379.48
	11/4/14	3427.96	47.88	3380.08
IWO30P	10/23/12	3427.96	48.88	3379.08
	5/1/13	3427.96	48.73	3379.23
RW004A	10/29/13	3427.96	49.25	3378.71
	5/5/14		49.31	
	11/3/14		48.80	
RW004A	1/21/02	3430.11	51.51	3378.60
	4/4/02	3430.11	51.59	3378.52
	9/3/02	3430.11	51.45	3378.66
	12/2/02	3430.11	51.10	3379.01
	1/31/03	3430.11	51.14	3378.97
	3/28/03	3430.11	51.16	3378.95
	5/19/03	3430.11	51.23	3378.88
	9/9/03	3430.11	46.36	3383.75
	12/3/03	3430.11	51.53	3378.58
	3/30/04	3430.74	52.34	3378.40
	6/7/04	3430.74	51.61	3379.13
	11/30/04	3430.74	51.56	3379.18
	3/31/05	3430.74	51.97	3378.77
	5/23/05	3430.74	52.13	3378.61
	1/18/06	3430.74	47.46	3383.28
	6/19/06	3430.74	49.78	3380.96
	4/11/07	3430.74	47.15	3383.59
	3/24/08	3430.74	49.51	3381.23
	3/11/09	3430.74	47.49	3383.25
	3/1/10	3430.74	50.28	3380.46
	8/3/10	3430.74	50.34	3380.40
	5/6/11	3430.74	47.65	3383.09
	11/4/11	3430.74	47.50	3383.24
	5/4/12	3430.74	44.85	3385.89
	10/23/12	3430.74	47.99	3382.75
	5/2/13	3430.74	50.20	3380.54
	10/29/13	3430.74	48.11	3382.63
	5/5/14	3430.74	50.65	3380.09
	11/4/14	3430.74	48.01	3382.73

TABLE 1

**SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO**

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
GOPWW2	NR	3396.97	49.02	3347.95
	12/4/02	3396.97	49.54	3347.43
	1/31/03	3396.97	49.42	3347.55
	3/28/03	3396.97	49.14	3347.83
	5/19/03	3396.97	49.21	3347.76
	9/9/03	3396.97	49.37	3347.60
	12/2/03	3396.97	49.71	3347.26
	3/30/04	3396.97	49.54	3347.43
	6/7/04	3396.97	49.31	3347.66
	9/14/04	3396.97	49.45	3347.52
	11/29/04	3396.97	49.22	3347.75
	3/31/05	3396.97	48.81	3348.16
	5/23/05	3396.67	48.52	3348.15
	1/18/06	3396.67	48.00	3348.67
	6/23/06	3396.67	47.65	3349.02
	4/23/07	3396.67	47.15	3349.52
	9/10/07	3396.67	46.70	3349.97
	3/21/08	3396.67	46.46	3350.21
	8/4/08	3396.67	46.47	3350.20
	3/10/09	3396.67	46.59	3350.08
	7/28/09	3396.67	46.44	3350.23
	3/1/10	3396.67	46.51	3350.16
	7/30/10	3396.67	53.94	3342.73
	5/4/11	3396.67	46.69	3349.98
	11/2/11	3396.67	47.06	3349.61
	5/1/12	3396.67	47.00	3349.67
	11/1/12	NG	NG	NG
	5/23/13	3396.67	46.97	3349.70
	10/28/13	NG	NG	NG
	Destroyed			
LordWW	12/18/97	3419.97	44.00	3375.97
	11/16/99	3419.97	42.67	3377.30
	6/7/01	3419.97	41.90	3378.07
	2/6/02	3419.97	42.01	3377.96
	9/3/02	3419.97	41.88	3378.09
	12/9/02	3419.97	41.88	3378.09
	6/5/03	3419.97	41.95	3378.02
	1/22/04	3419.97	42.25	3377.72
	3/30/04	3419.97	42.34	3377.63
	6/7/04	3419.97	42.12	3377.85
	9/17/04	3419.97	41.93	3378.04
	5/23/05	3419.97	40.93	3379.04
	1/17/06	3419.97	40.59	3379.38
	6/23/06	3419.97	40.57	3379.40
	4/5/07	3419.97	40.05	3379.92
	3/18/08	3419.97	48.17	3371.80
	8/4/08	3419.97	40.43	3379.54
	3/10/09	3419.97	40.61	3379.36
	7/28/09	3419.97	40.80	3379.17
	3/1/10	3419.97	40.84	3379.13
	8/2/10	3419.97	38.21	3381.76
	5/1/11	NG	NG	NG
	11/1/11	NG	NG	NG
	5/1/12	NG	NG	NG
	10/26/12	3419.97	41.38	3378.59
	5/23/13	3419.97	41.47	3378.50
	11/5/13	3419.97	39.17	3380.80
	11/4/14	3419.97	41.20	3378.77
RolandWW	12/18/97	3419.47	43.12	3376.35
	11/16/99	3419.47	41.58	3377.89
	5/15/01	3419.47	41.06	3378.41
	8/23/01	3419.47	40.92	3378.55
	1/21/02	3419.47	41.09	3378.38
	4/4/02	3419.47	41.32	3378.15
	9/3/02	3419.47	40.90	3378.57
	12/2/02	3419.47	40.80	3378.67
	1/31/03	3419.47	40.79	3378.68
	3/28/03	3419.47	40.74	3378.73
	6/3/03	3419.47	40.92	3378.55
	9/9/03	3419.47	41.03	3378.44
	12/2/03	3419.47	41.14	3378.33
	3/30/04	3419.47	41.35	3378.12
	6/7/04	3419.47	41.17	3378.30
	3/31/05	3419.47	39.62	3379.85
	5/23/05	3419.47	39.81	3379.66
	6/23/06	3419.47	39.56	3379.91
	3/11/09	3419.47	39.69	3379.78
	3/1/10	NG	NG	NG
	11/3/14	NG	NG	NG

TABLE 1
SUMMARY GROUNDWATER GAUGING DATA
FORMER NORTH EUNICE GAS PLANT
LEA COUNTY, NEW MEXICO

Well ID	Date Measured	Top of Casing Elevation (feet AMSL)	Depth to Water (feet)	Groundwater Elevation (feet AMSL)
WoodellWW	5/15/01	3423.77	49.63	3374.14
	8/23/01	3423.77	49.97	3373.80
	4/5/02	3423.77	49.52	3374.25
	9/3/02	3423.77	54.07 (P)	3369.70
	12/2/02	3423.77	49.06	3374.71
	1/30/03	3423.77	49.14	3374.63
	3/28/03	3423.77	62.24 (P)	3361.53
	6/5/03	3423.77	53.76 (P)	3370.01
	9/9/03	3423.77	53.65 (P)	3370.12
	12/2/03	3423.77	49.07	3374.70
	3/30/04	3423.77	49.50	3374.27
	6/7/04	3423.77	54.24	3369.53
	11/29/04	3423.77	48.89	3374.88
	5/23/05	3423.77	52.80	3370.97
	3/10/09	NG	NG	NG
EPWW1	3/1/10	NG	NG	NG
	11/3/14	NG	NG	NG
	12/18/97	3429.95	73.12	3356.83
	4/22/97	3429.95	66.46	3363.49
	11/16/99	3429.95	65.20	3364.75
	5/15/01	3429.95	52.27	3377.68
	8/23/01	3429.95	52.86	3377.09
	1/21/02	3429.95	52.67	3377.28
	4/4/02	3429.95	93.34	3336.61
	9/3/02	3429.95	50.85	3379.10
	12/2/02	3429.95	51.59	3378.36
	1/31/03	3429.95	52.20	3377.75
	3/28/03	3429.95	52.58	3377.37
	5/19/03	3429.95	52.26	3377.69
	9/9/03	3429.95	94.08	3335.87
	12/3/03	3429.95	94.07	3335.88
	3/30/04	3429.95	86.62	3343.33
	6/7/04	3429.95	77.45	3352.50
	9/17/04	3429.95	52.22	3377.73
	11/30/04	3429.95	57.80	3372.15
	3/31/05	3429.95	51.39	3378.56
	5/23/05	3429.95	51.16	3378.79
	3/10/09	NG	NG	NG
	3/1/10	NG	NG	NG
	8/2/10	NG	NG	NG
	11/3/14	NG	NG	NG
Notes: AMSL - Above Mean Sea Level MW - Monitoring Well No Suffix - Shallow/Middle Monitoring Well Completion (Example: MW069) A - Deep Monitoring Well Completion (Example: MW070A) M - Middle Monitoring Well Completion (Example: MW008M) SA - Fully-Penetrating, Monitoring Well Completion (Example: MW071SA) RW - Recovery Well EP - Eunice Plant WW - Water Well GOP - Gulf Oil Corp. IW - Injection Well (P) - Well was pumping during water collection NR - Not Reported NG - Not Gauged				

Appendix C

Certified Laboratory Analytical Results



**CONESTOGA-ROVERS
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MEMORANDUM

To: Mike Wisniowiecki REF. No.: 073018

FROM: Claudia Ramos/cs/9-NF ^{CR} DATE: January 21, 2015

RE: **Analytical Results and Reduced Validation
Groundwater Sampling Event
Chevron Environmental Management Company (CEMC) - North Eunice
Eunice, New Mexico
May 2014**

1.0 Introduction

The following document details a reduced validation of analytical results for groundwater samples collected at the North Eunice, New Mexico site during May 2014. Samples were submitted to Xenco Laboratories, located in Odessa, Texas. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard Conestoga-Rovers & Associates (CRA) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS), and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2.0 Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times, with the exception of sample MW-2-052214 for TDS. The sample result was qualified as estimated (Table 4).

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3.0 Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Most method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation. Several method blanks yielded detected results for several dissolved metals. The associated sample results with concentrations similar to the blank concentrations were qualified non-detect (see Table 5).

4.0 Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the above criteria.

5.0 Laboratory Control Sample Analyses

LCS and/or laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

The LCS/LCSD contained all compounds of interest. All LCS recoveries and RPDs were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits, demonstrating acceptable analytical accuracy and precision.

6.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the extraction or digestion process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

The laboratory performed additional site-specific MS/MSD analyses internally.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision, with the exception of low percent recovery values reported for sample MW-55SA 051414 (See Table 6).

7.0 Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The laboratory performed additional site-specific duplicate analyses internally. The duplicate results were evaluated per

the "Guidelines". All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

8.0 Field QA/QC Samples

The field QA/QC consisted of 2 trip blank samples and 11 field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, two trip blanks were submitted to the laboratory for BTEX analysis. All results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, six field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water sample. If the reported concentration in either the investigative sample or its duplicate is less than five times the practical quantitation limit (PQL), the evaluation criterion is one time the PQL value for water and soil samples, respectively.

Most field duplicate results showed adequate reproducibility, indicating satisfactory sampling and laboratory precision. The hexavalent chromium and manganese results for samples MW-13A-050714 and MW-41A-051614, respectively, and their field duplicates did show some variability. The original and duplicate sample results were qualified as estimated (See Table 7).

9.0 Analyte Reporting

Non-detect data were reported down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the PQL but greater than the MDL were qualified as estimated (J) in Table 2.

10.0 Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the qualifications noted herein.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

						Analysis/Parameters						
Sample Identification		Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Chloride	Metals, Dissolved (Arsenic, Chromium, Iron, Manganese)	TDS	Chromium VI (hexavalent)	TPH	BTEX	Comments
484736	MW-9-050614	MW009	Water	05/06/2014	11:05	X	X	X	X	X	X	MS/MSD
	MW-38-050614	MW038	Water	05/06/2014	12:45	X	X	X	X	X	X	
	MW-1-050614	MW001	Water	05/06/2014	14:05	X	X	X	X	X	X	
	MW-11M-050614	MW011A	Water	05/06/2014	15:05	X	X	X	X	X	X	
	MW-8M-050614	MW008M	Water	05/06/2014	16:20	X	X	X	X	X	X	
	DUP-1-050614	MW008M	Water	05/06/2014	-	X	X	X	X	X	X	Duplicate of MW-8M-050614
	MW-20A-050614	MW020A	Water	05/06/2014	11:40	X	X	X	X	X	X	
	MW-20-050614	MW020	Water	05/06/2014	12:35	X	X	X	X	X	X	
	MW-19A-050614	MW019A	Water	05/06/2014	13:30	X	X	X	X	X	X	
	MW-16A-050614	MW016A	Water	05/06/2014	14:40	X	X	X	X	X	X	
	MW-15-050614	MW015	Water	05/06/2014	15:30	X	X	X	X	X	X	MS/MSD
	MW-15A-050614	MW015A	Water	05/06/2014	16:25	X	X	X	X	X	X	MS/MSD
	Trip Blank	Trip Blank	Water	05/06/2014	-	X	X	X	X	X	X	Trip Blank
484841	DUP-2-050714	MW013A	Water	05/07/2014	-	X	X	X	X	X	X	Duplicate of MW-13A-050714 / MS/MSD
	MW-8-050714	MW008	Water	05/07/2014	10:05	X	X	X	X	X	X	MS/MSD
	MW-3-050714	MW003	Water	05/07/2014	11:25	X	X	X	X	X	X	MS/MSD
	MW-96-050714	MW096P	Water	05/07/2014	12:30	X	X	X	X	X	X	
	MW-97-050714	MW097P	Water	05/07/2014	13:35	X	X	X	X	X	X	
	IW-29-050714	IW029P	Water	05/07/2014	14:40	X	X	X	X	X	X	
	MW-7A-050714	MW007A	Water	05/07/2014	15:50	X	X	X	X	X	X	
	MW-13-050714	MW013	Water	05/07/2014	15:40	X	X	X	X	X	X	
	MW-13A-050714	MW013A	Water	05/07/2014	14:45	X	X	X	X	X	X	
	MW-10-050714	MW010	Water	05/07/2014	13:35	X	X	X	X	X	X	
	MW-40A-050714	MW040A	Water	05/07/2014	12:50	X	X	X	X	X	X	MS/MSD
	MW-14-050714	MW014	Water	05/07/2014	11:30	X	X	X	X	X	X	
	MW-14A-050714	MW014A	Water	05/07/2014	10:40	X	X	X	X	X	X	
	TRIP BLANK	Trip Blank	Water	05/07/2014	-	X	X	X	X	X	X	Trip Blank

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

						Analysis/Parameters						
Sample Identification		Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Chloride	Metals, Dissolved (Arsenic, Chromium, Iron, Manganese)	TDS	Chromium VI (hexavalent)	TPH	BTEX	Comments
484976	MW-11-050814	MW011	Water	05/08/2014	09:55	X	X	X	X	X	X	MS/MSD
	MW-11A-050814	MW011A	Water	05/08/2014	10:50	X	X	X	X	X	X	
	IW-001-050814	IW001	Water	05/08/2014	11:50	X	X	X	X	X	X	
	MW-87A-050814	MW087A	Water	05/08/2014	13:30	X	X	X	X	X	X	
	MW-8A-050814	MW008A	Water	05/08/2014	14:55	X	X	X	X	X	X	
	RW-004A-050814	RW004A	Water	05/08/2014	16:05	X	X	X	X	X	X	
	DUP-3-050814	MW024A	Water	05/08/2014	-	X	X	X	X	X	X	
	MW-24A-050814	MW024A	Water	05/08/2014	15:30	X	X	X	X	X	X	
	MW-70-050814	MW070	Water	05/08/2014	00:00	X	X	X	X	X	X	
	MW-70A-050814	MW070A	Water	05/08/2014	00:00	X	X	X	X	X	X	
485080	MW-23-050814	MW023	Water	05/08/2014	11:55	X	X	X	X	X	X	MS/MSD
	MW-23A-050814	MW023A	Water	05/08/2014	10:50	X	X	X	X	X	X	
	MW-24-050814	MW024	Water	05/08/2014	16:20	X	X	X	X	X	X	
	TRIP BLANK	Trip Blank	Water	05/08/2014	-	X	X	X	X	X	X	
	MW-030P-050914	MW030	Water	05/09/2014	09:00	X	X	X	X	X	X	
	MW-7-050914	MW007	Water	05/09/2014	10:00	X	X	X	X	X	X	
	MW-95-050914	MW095	Water	05/09/2014	11:40	X	X	X	X	X	X	
	MW-94-050914	MW094	Water	05/09/2014	13:00	X	X	X	X	X	X	
	MW-88M-050914	MW088M	Water	05/09/2014	14:40	X	X	X	X	X	X	
	MW-18-050914	MW018	Water	05/09/2014	13:45	X	X	X	X	X	X	
485208	MW-26-050914	MW026	Water	05/09/2014	12:40	X	X	X	X	X	X	Trip Blank
	MW-27-050914	MW027	Water	05/09/2014	11:45	X	X	X	X	X	X	
	TRIP BLANK	Trip Blank	Water	05/09/2014	-	X	X	X	X	X	X	
	MW-32-051214	MW032	Water	05/12/2014	11:35	X	X	X	X	X	X	
	MW-68-051214	MW068	Water	05/12/2014	13:30	X	X	X	X	X	X	
	MW-31-051214	MW031	Water	05/12/2014	14:25	X	X	X	X	X	X	
	MW-60-051214	MW060	Water	05/12/2014	15:20	X	X	X	X	X	X	
	MW-30-051214	MW030	Water	05/12/2014	16:40	X	X	X	X	X	X	
	Trip Blank	Trip Blank	Water	05/12/2014	-	X	X	X	X	X	X	

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

							Analysis/Parameters						
Sample Identification		Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Chloride	Metals, Dissolved (Arsenic, Chromium, Iron, Manganese)	TDS	Chromium VI (hexavalent)	TPH	BTEX	Comments	
485266	LORD WW	LordWW	Water	05/09/2014	-	X	X	X	X	X	X		
485304	Dup-4 051314	MW061	Water	05/13/2014	-	X	X	X	X	X	X	Duplicate of MW-61-051314	
	MW-61 051314	MW061	Water	05/13/2014	10:55	X	X	X	X	X	X		
	MW-69 051314	MW069	Water	05/13/2014	12:00	X	X	X	X	X	X		
	MW-59 051314	MW059	Water	05/13/2014	13:00	X	X	X	X	X	X		
	MW-58 051314	MW058	Water	05/13/2014	13:50	X	X	X	X	X	X		
	MW-63A 051314	MW063A	Water	05/13/2014	14:55	X	X	X	X	X	X		
	MW-62A 051314	MW062A	Water	05/13/2014	15:55	X	X	X	X	X	X		
	MW-43 051314	MW043	Water	05/13/2014	16:45	X	X	X	X	X	X		
	TRIP BLANK	Trip Blank	Water	05/13/2014	-	X	X	X	X	X	X	Trip Blank	
485470	MW-57SA 051414	MW057SA	Water	05/14/2014	10:25	X	X	X	X	X	X		
	MW-55SA 051414	MW055SA	Water	05/14/2014	11:10	X	X	X	X	X	X		
	MW-74SA 051414	MW074SA	Water	05/14/2014	13:00	X	X	X	X	X	X		
	MW-75SA 051414	MW075SA	Water	05/14/2014	13:50	X	X	X	X	X	X		
	MW-76SA 051414	MW076SA	Water	05/14/2014	14:30	X	X	X	X	X	X		
	MW-65SA 051414	MW065SA	Water	05/14/2014	12:30	X	X	X	X	X	X		
	MW-83SA 051414	MW083SA	Water	05/14/2014	13:45	X	X	X	X	X	X		
	MW-86SA 051414	MW086SA	Water	05/14/2014	16:15	X	X	X	X	X	X		
	MW-85SA 051414	MW085SA	Water	05/14/2014	14:45	X	X	X	X	X	X		
	MW-84SA 051414	MW085SA	Water	05/14/2014	16:00	X	X	X	X	X	X		
	DUP-5 051414	MW076SA	Water	05/14/2014	-	X	X	X	X	X	X	Duplicate of MW-76SA 051414	
	TRIP BLANK	Trip Blank	Water	05/14/2014	-	X	X	X	X	X	X		Trip Blank

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

						Analysis/Parameters						
Sample Identification		Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Chloride	Metals, Dissolved (Arsenic, Chromium, Iron, Manganese)	TDS	Chromium VI (hexavalent)	TPH	BTEX	Comments
485531	MW-56SA 051514	MW056SA	Water	05/15/2014	10:40	X	X	X	X	X	X	
	MW-54SA 051514	MW054SA	Water	05/15/2014	11:40	X	X	X	X	X	X	
	MW-51SA 051514	MW051SA	Water	05/15/2014	12:25	X	X	X	X	X	X	
	MW-52SA 051514	MW052SA	Water	05/15/2014	13:15	X	X	X	X	X	X	
	MW-49SA 051514	MW049SA	Water	05/15/2014	14:20	X	X	X	X	X	X	
	MW-48SA 051514	MW048SA	Water	05/15/2014	15:20	X	X	X	X	X	X	
	DUP-6 051514	MW048SA	Water	05/15/2014	-	X	X	X	X	X	X	Duplicate of MW-48SA 051514
	MW-67SA 051514	MW067SA	Water	05/15/2014	09:30	X	X	X	X	X	X	
	MW-79SA 051514	MW079SA	Water	05/15/2014	10:15	X	X	X	X	X	X	
	MW-78SA 051514	MW078SA	Water	05/15/2014	11:10	X	X	X	X	X	X	
	MW-53SA 051514	MW053SA	Water	05/15/2014	12:05	X	X	X	X	X	X	
	MW-66SA 051514	MW066SA	Water	05/15/2014	14:20	X	X	X	X	X	X	
	MW-72SA 051514	MW072SA	Water	05/15/2014	15:25	X	X	X	X	X	X	
	TRIP BLANK	Trip Blank	Water	05/15/2014	-	X	X	X	X	X	X	Trip Blank
485610	MW-21A 051614	MW021A	Water	05/16/2014	10:50	X	X	X	X	X	X	
	MW-50SA 051614	MW050SA	Water	05/16/2014	11:50	X	X	X	X	X	X	
	MW-34 051614	MW034	Water	05/16/2014	12:50	X	X	X	X	X	X	
	MW-41A 051614	MW041A	Water	05/16/2014	14:00	X	X	X	X	X	X	
	MW-71SA 051614	MW071SA	Water	05/16/2014	10:15	X	X	X	X	X	X	
	MW-73SA 051614	MW073SA	Water	05/16/2014	11:15	X	X	X	X	X	X	
	IW-5 051614	IW005	Water	05/16/2014	12:20	X	X	X	X	X	X	
	IW-6 051614	IW006	Water	05/16/2014	13:20	X	X	X	X	X	X	
	DUP-7 051614	MW041A	Water	05/16/2014	-	X	X	X	X	X	X	Duplicate of MW-14A 051614
	TRIP BLANK	Trip Blank	Water	05/16/2014	-	X	X	X	X	X	X	Trip Blank
485741	IW-14	IW014	Water	05/19/2014	11:20	X	X	X	X	X	X	
	IW-13	IW013	Water	05/19/2014	12:50	X	X	X	X	X	X	
	IW-11	IW011	Water	05/19/2014	15:20	X	X	X	X	X	X	
	IW-10	IW010	Water	05/19/2014	16:15	X	X	X	X	X	X	
	TRIP BLANK	Trip Blank	Water	05/19/2014	-	X	X	X	X	X	X	Trip Blank

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

						Analysis/Parameters							
Sample Identification		Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Chloride	Metals, Dissolved (Arsenic, Chromium, Iron, Manganese)	TDS	Chromium VI (hexavalent)	TPH	BTEX	Comments	
485795	IW-9-052014	IW009	Water	05/20/2014	09:40	X	X	X	X	X	X		
	IW-8 052014	IW008	Water	05/20/2014	10:35	X	X	X	X	X	X		
	IW-4 052014	IW004	Water	05/20/2014	11:45	X	X	X	X	X	X		
	IW-3 052014	IW003	Water	05/20/2014	12:30	X	X	X	X	X	X		
	IW-15 052014	IW015	Water	05/20/2014	13:10	X	X	X	X	X	X		
	IW-16 052014	IW016	Water	05/20/2014	13:45	X	X	X	X	X	X		
	IW-18 052014	IW018	Water	05/20/2014	14:45	X	X	X	X	X	X		
	MW-44 052014	MW044	Water	05/20/2014	15:25	X	X	X	X	X	X		
	IW-19 052014	IW019	Water	05/20/2014	16:10	X	X	X	X	X	X		
DUP-8 052014	IW008	Water	05/20/2014	-	X	X	X	X	X	X	Duplicate of IW-8 052014		
TRIP BLANK	Trip Blank	Water	05/20/2014	-	X	X	X	X	X	X	Trip Blank		
485906	MW-93SA 052114	MW093SA	Water	05/21/2014	09:10	X	X	X	X	X	X		
	MW-91SA 052114	MW091SA	Water	05/21/2014	10:45	X	X	X	X	X	X		
	IW-21 052114	IW021	Water	05/21/2014	11:35	X	X	X	X	X	X		
	IW-22 052114	IW022	Water	05/21/2014	12:20	X	X	X	X	X	X		
	IW-23 052114	IW023	Water	05/21/2014	13:25	X	X	X	X	X	X		
	MW-4 052114	MW004	Water	05/21/2014	14:20	X	X	X	X	X	X		
	MW-4A 052114	MW004A	Water	05/21/2014	15:25	X	X	X	X	X	X		
	DUP 9 052114	IW023	Water	05/21/2014	-	X	X	X	X	X	X	Duplicate of IW-23 052114	
	Trip Blank	Trip Blank	Water	05/21/2014	-	X	X	X	X	X	X	Trip Blank	
485996	MW-2A 052214	MW002A	Water	05/22/2014	09:30	X	X	X	X	X	X		
	IW-28 052214	IW028	Water	05/22/2014	10:05	X	X	X	X	X	X		
	MW-2 052214	MW002	Water	05/22/2014	10:30	X	X	X	X	X	X		
	IW-27 052214	IW027	Water	05/22/2014	11:00	X	X	X	X	X	X		
	MW-42A 052214	MW042A	Water	05/22/2014	11:20	X	X	X	X	X	X		
	MW90SA 052214	MW090SA	Water	05/22/2014	11:45	X	X	X	X	X	X		
	MW-45 052214	MW045	Water	05/22/2014	14:30	X	X	X	X	X	X		
	IW-26 052214	IW026	Water	05/22/2014	14:35	X	X	X	X	X	X		
	IW-25 052214	IW025	Water	05/22/2014	14:45	X	X	X	X	X	X		
	MW-46A 052214	MW046A	Water	05/22/2014	16:00	X	X	X	X	X	X		
	IW-24 052214	IW024	Water	05/22/2014	16:40	X	X	X	X	X	X		
	DUP-10 052214	MW045	Water	05/22/2014	-	X	X	X	X	X	X	Duplicate of MW-45 052214	
	TRIP BLK	Trip Blank	Water	05/22/2014	-	X	X	X	X	X	X	Trip Blank	

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

						Analysis/Parameters							
Sample Identification		Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Chloride	Metals, Dissolved (Arsenic, Chromium, Iron, Manganese)	TDS	Chromium VI (hexavalent)	TPH	BTEX	Comments	
486004	Teague	Teague	Water	05/22/2014	13:00	X	X	X	X	X	X		
486065	MW-37-052314	MW037	Water	05/23/2014	09:00	X	X	X	X	X	X		
	MW-46 052314	MW046	Water	05/23/2014	08:40	X	X	X	X	X	X		
	TRIP BLANK	Trip Blank	Water	05/23/2014	-	X	X	X	X	X	X	Trip Blank	
486180	MW-39A-052714	MW039A	Water	05/27/2014	11:20	X	X	X	X	X	X		
	MW-36-052714	MW036	Water	05/27/2014	12:25	X	X	X	X	X	X		
	MW-9A-052714	MW009A	Water	05/27/2014	13:20	X	X	X	X	X	X		
	MW-89-052714	MW089SA	Water	05/27/2014	14:05	X	X	X	X	X	X		
	MW-47-052714	MW047	Water	05/27/2014	15:40	X	X	X	X	X	X		
	DUP-11-052714	MW089SA	Water	05/27/2014	-	X	X	X	X	X	X	Duplicate of MW-89-052714	
	Trip Blank	Trip Blank	Water	05/27/2014	-	X	X	X	X	X	X	Trip Blank	
486279	MW-12M-052814	MW012M	Water	05/28/2014	09:20	X	X	X	X	X	X		
	MW-12-052814	MW012	Water	05/28/2014	10:20	X	X	X	X	X	X		
	MW-12A-052814	MW012A	Water	05/28/2014	11:30	X	X	X	X	X	X		
	IW-002-052814	IW002	Water	05/28/2014	15:50	X	X	X	X	X	X		
	RW-003-0528/14	RW003	Water	05/28/2014	14:40	X	X	X	X	X	X		
	Trip Blank	Trip Blank	Water	05/28/2014	-	X	X	X	X	X	X	Trip Blank	
486340	Woodell WW-052914	WoodellWW	Water	05/29/2014	10:40	X	X	X	X	X	X		
	IW 007-052914	IW007	Water	05/29/2014	09:30	X	X	X	X	X	X		
	Trip Blank	Trip Blank	Water	05/29/2014	-	X	X	X	X	X	X	Trip Blank	

Notes:

- TDS - Total dissolved solids
- TPH - Total petroleum hydrocarbons
- BTEX - Benzene, toluene, ethylbenzene, and xylenes

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014**

	Location Name:	MW001	MW002	MW003	MW004	MW005	MW007	MW008	MW008M	MW009	MW010
	Sample Name:	MW1 052113	MW2 052113	MW3 051613	MW4 051513	MW5 052213	MW7 051613	MW8 051613	MW8M 052013	MW9 051513	MW10 051713
	Sample Date:	5/21/2013	5/21/2013	5/16/2013	5/15/2013	5/22/2013	5/16/2013	5/16/2013	5/20/2013	5/15/2013	5/17/2013
	Sample Type:										
	Units										
Metals											
Arsenic (dissolved)	mg/L	<0.00756	0.0120 J	0.0213	<0.00756	<0.00756	0.0255	<0.00756	<0.00756	<0.00756	0.0107 J
Chromium (dissolved)	mg/L	<0.00355	0.0452	0.0174	0.123	<0.00355	0.0210	<0.00355	0.00812 J	0.0196	0.0235
Chromium VI (hexavalent)	mg/L	<0.00500	0.0475	0.0160	0.0998	<0.0500	0.0187	<0.00500	<0.0500	0.0136	0.0220
Iron (dissolved)	mg/L	<0.0188	<0.0643 J	<0.0188	<0.0188	0.692	<0.0188	0.0712 J	14.6	<0.0188	<0.0188
Manganese (dissolved)	mg/L	2.60	0.00403 J	<0.00291	0.0134 J	0.0547	<0.00291	0.871	3.01	<0.00291	<0.00291
Petroleum Products											
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	<0.988	<0.988	4.59	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	4.01	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	8.60	<0.988	<0.988	<0.988	<0.988	<0.988
Volatile Organic Compounds											
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	0.396	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	0.00661	<0.000700	<0.000700	<0.000700	0.222	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	0.00313	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	0.00661	<0.000500	<0.000500	<0.000500	0.621	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	0.00313	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry											
Chloride	mg/L	127	1130	45.7	298	210	173	839	1370	132	2440
Total dissolved solids (TDS)	mg/L	2780	4130	1040	1810	1300	1220	3760	5100	1180	6280

Notes:

J - Estimated concentration.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

	Location Name:	MW011	MW011M	MW012	MW012M	MW013	MW014	MW015	MW018	MW020	MW023
	Sample Name:	MW11 052013	MW11M 052013	MW12 052113	MW12M 052113	MW13 051713	MW14 051613	MW15 051613	MW18 051313	MW20 051313	MW23 052113
	Sample Date:	5/20/2013	5/20/2013	5/21/2013	5/21/2013	5/17/2013	5/16/2013	5/16/2013	5/13/2013	5/13/2013	5/21/2013
	Sample Type:										
	Units										
Metals											
Arsenic (dissolved)	mg/L	0.0108 J	<0.00756	<0.0517	0.0870	0.00930 J	0.0247	0.0173 J	0.0127 J	0.0192 J	<0.00756
Chromium (dissolved)	mg/L	0.0143	0.0189	<0.0690	0.0444	0.275	0.0245	<0.00355	<0.00355	<0.00355	1.11
Chromium VI (hexavalent)	mg/L	<0.0500	<0.0500	<0.0500	<0.0500	0.274	0.0172	<0.00500	<0.00500	<0.00500	0.958
Iron (dissolved)	mg/L	0.598	0.173 J	<0.0536 J	10.1	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0517 J
Manganese (dissolved)	mg/L	1.90	0.00474 J	5.81	0.142	<0.00291	0.128	<0.00291	<0.00291	<0.00291	<0.00291
Petroleum Products											
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	1.07 J	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	1.07 J	<0.988	<0.988
Volatile Organic Compounds											
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry											
Chloride	mg/L	1130	1290	399	744	301	1540	532	268	865	767
Total dissolved solids (TDS)	mg/L	3430	4400	2050	4900	1730	3820	2050	1310	2420	3500

Notes:

J - Estimated concentration.

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014**

Location Name:		MW024	MW025	MW026	MW027	MW028	MW029	MW030	MW031	MW032	MW033	MW035
Sample Name:		MW24 051413	MW25 051613	MW26 052013	MW27 052013	MW28 052013	MW29 051413	MW30 051413	MW31 051413	MW32 052013	MW33 052013	DUP6 052213
Sample Date:		5/14/2013	5/16/2013	5/20/2013	5/20/2013	5/20/2013	5/14/2013	5/14/2013	5/14/2013	5/20/2013	5/20/2013	5/22/2013
Sample Type:												(Duplicate)
Units												
Metals												
Arsenic (dissolved)	mg/L	<0.00756	0.0105 J	<0.00756	<0.00756	0.0199 J	0.0189 J	0.0209	0.0122 J	<0.00756	<0.00756	<0.00756
Chromium (dissolved)	mg/L	0.0633	0.00547 J	<0.00355	<0.00355	<0.00355	0.0148	0.00363 J	<0.00355	0.00705 J	<0.00355	<0.00355
Chromium VI (hexavalent)	mg/L	0.0517	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0165	<0.00500
Iron (dissolved)	mg/L	<0.0188	<0.0188	<0.0188	<0.0188	<0.0300 J	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188
Manganese (dissolved)	mg/L	0.00329 J	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291	0.438	<0.00291	0.683	0.0549
Petroleum Products												
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Volatile Organic Compounds												
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.0335	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	0.0133	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.0468	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry												
Chloride	mg/L	674	265	485	92.4	224	141	127	106	226	447	162
Total dissolved solids (TDS)	mg/L	1940	1400	2110	1170	1240	546	696	802	959	1450	1140

Notes:

J - Estimated concentration.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

<i>Location Name:</i>		<i>MW035</i>	<i>MW036</i>	<i>MW037</i>	<i>MW038</i>	<i>MW043</i>	<i>MW044</i>	<i>MW045</i>	<i>MW046</i>	<i>MW047</i>	<i>MW058</i>	<i>MW059</i>
<i>Sample Name:</i>		<i>MW35 052213</i>	<i>MW36 052213</i>	<i>MW37 051513</i>	<i>MW038 052313</i>	<i>MW 43 051313</i>	<i>MW44 051313</i>	<i>MW45 052213</i>	<i>MW46 052113</i>	<i>MW47 052013</i>	<i>MW58 051413</i>	<i>MW59 052113</i>
<i>Sample Date:</i>		<i>5/22/2013</i>	<i>5/22/2013</i>	<i>5/15/2013</i>	<i>5/23/2013</i>	<i>5/13/2013</i>	<i>5/13/2013</i>	<i>5/22/2013</i>	<i>5/21/2013</i>	<i>5/20/2013</i>	<i>5/14/2013</i>	<i>5/21/2013</i>
<i>Sample Type:</i>												
<i>Units</i>												
<i>Metals</i>												
Arsenic (dissolved)	mg/L	<0.00756	0.00792 J	0.0228	0.00898 J	<0.00756	0.00818 J	<0.00756	0.0234	<0.00756	0.0111 J	0.0153 J
Chromium (dissolved)	mg/L	<0.00355	<0.00355	<0.00355	<0.00355	<0.00355	<0.00355	0.0115	<0.00355	0.0487	2.58	0.107
Chromium VI (hexavalent)	mg/L	<0.00500	<0.0500	0.0110	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	0.0433	2.52	0.104
Iron (dissolved)	mg/L	<0.0188	<0.0188	0.650	5.25	<0.0188	0.0456 J	<0.0188	<0.0690 J	<0.0188	0.0612 J	<0.0188
Manganese (dissolved)	mg/L	0.0538	0.454	0.0291	0.171	0.637	0.0173 J	0.248	0.741	<0.00291	<0.00291	<0.00291
<i>Petroleum Products</i>												
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	4.10	<0.988	<0.988	<0.988	<0.988	1.08 J	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	3.03	7.09	<0.988	<0.988	<0.988	<0.988	1.84	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	3.03	11.2	<0.988	<0.988	<0.988	<0.988	2.92	<0.988	<0.988	<0.988
<i>Volatile Organic Compounds</i>												
Benzene	mg/L	<0.000500	0.0676	6.62	0.000609 J	<0.000500	<0.000500	<0.000500	0.0520	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	0.120	0.534	<0.000700	<0.000700	<0.000700	<0.000700	0.140	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	0.184	0.134	<0.00140	<0.00140	<0.00140	<0.00140	0.0300	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	0.0210	<0.0350	<0.000700	<0.000700	<0.000700	<0.000700	0.0393	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.0500	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	0.393	7.29	0.000609 J	<0.000500	<0.000500	<0.000500	0.261	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	0.205	0.134	<0.000700	<0.000700	<0.000700	<0.000700	0.0693	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>												
Chloride	mg/L	157	51.7	343	147	158	420	134	307	248	967	428
Total dissolved solids (TDS)	mg/L	1100	795	1540	1020	1150	1560	1190	1440	1770	3790	2120

Notes:

J - Estimated concentration.

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014**

<i>Location Name:</i>		<i>MW060</i>	<i>MW061</i>	<i>MW068</i>	<i>MW069</i>	<i>MW070</i>	<i>MW088M</i>	<i>MW094</i>	<i>MW094</i>	<i>MW095</i>	<i>IW001</i>
<i>Sample Name:</i>		<i>MW60 051513</i>	<i>MW61 051513</i>	<i>MW68 051513</i>	<i>MW69 051413</i>	<i>MW70 051413</i>	<i>MW88M 052113</i>	<i>DUP-4-051513</i>	<i>MW94 051513</i>	<i>MW95 051513</i>	<i>IW001 052113</i>
<i>Sample Date:</i>		<i>5/15/2013</i>	<i>5/15/2013</i>	<i>5/15/2013</i>	<i>5/14/2013</i>	<i>5/14/2013</i>	<i>5/21/2013</i>	<i>5/15/2013</i>	<i>5/15/2013</i>	<i>5/15/2013</i>	<i>5/21/2013</i>
<i>Sample Type:</i>								<i>(Duplicate)</i>			
	<i>Units</i>										
Metals											
Arsenic (dissolved)	mg/L	0.00865 J	0.0232	0.0113 J	<0.00756	0.0208	0.0825	<0.00756	0.00923 J	0.0130 J	0.0582
Chromium (dissolved)	mg/L	<0.00355	3.84	<0.00355	<0.00355	<0.00355	0.143	0.399	0.402	4.81	0.0241
Chromium VI (hexavalent)	mg/L	<0.00500	3.82	<0.00500	<0.00500	<0.00500	<0.100	0.395	0.385	4.83	<0.100
Iron (dissolved)	mg/L	0.275	<0.0188	<0.0188	<0.0188	<0.0188	32.3	<0.0188	<0.0188	<0.0188	3.59
Manganese (dissolved)	mg/L	2.10	0.00544 J	<0.00291	0.539	<0.00291	13.2	0.0125 J	0.0143 J	0.0761	1.78
Petroleum Products											
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	0.999 J	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	11.6	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	12.6	<0.988	<0.988	<0.988	<0.988
Volatile Organic Compounds											
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry											
Chloride	mg/L	1140	554	120	877	192	809	299	297	1510	963
Total dissolved solids (TDS)	mg/L	4310	2550	820	2190	821	7040	2280	2400	4630	5700

Notes:

J - Estimated concentration.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

<i>Location Name:</i>		<i>IW002</i>	<i>RW002</i>	<i>RW003</i>	<i>MW002A</i>	<i>MW004A</i>	<i>MW007A</i>	<i>MW008A</i>	<i>MW009A</i>	<i>MW011A</i>	<i>MW012A</i>
<i>Sample Name:</i>		<i>IW002 052213</i>	<i>RW002 0520B</i>	<i>RW003 052213</i>	<i>MW2A 052113</i>	<i>MW4A 051513</i>	<i>MW7A 051613</i>	<i>MW8A 051613</i>	<i>MW9A 051513</i>	<i>MW11A 052013</i>	<i>MW12A 052113</i>
<i>Sample Date:</i>		<i>5/22/2013</i>	<i>5/20/2013</i>	<i>5/22/2013</i>	<i>5/21/2013</i>	<i>5/15/2013</i>	<i>5/16/2013</i>	<i>5/16/2013</i>	<i>5/15/2013</i>	<i>5/20/2013</i>	<i>5/21/2013</i>
<i>Sample Type:</i>											
<i>Units</i>											
Metals											
Arsenic (dissolved)	mg/L	<0.0378	<0.00756	0.0362	0.00953 J	0.0124 J	0.0231	0.0802	0.00949 J	<0.00756	0.0117 J
Chromium (dissolved)	mg/L	<0.0177	0.0145	0.0190	0.0205	0.00738 J	0.275	0.0863	0.633	2.27	<0.00355
Chromium VI (hexavalent)	mg/L	<0.100	<0.0500	<0.00500	0.0168	<0.00500	0.265	0.0141	0.638	1.94	<0.00500
Iron (dissolved)	mg/L	4.97	5.78	4.97	<0.0188	<0.0188	<0.0188	4.62	<0.0188	<0.0506 J	<0.0188
Manganese (dissolved)	mg/L	0.863	0.854	1.02	<0.00291	<0.00291	0.00660 J	0.156	<0.00291	0.0424	0.00514 J
Petroleum Products											
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	1.11 J	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	1.11 J	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Volatile Organic Compounds											
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry											
Chloride	mg/L	534	994	550	346	326	344	793	524	1250	88.5
Total dissolved solids (TDS)	mg/L	3880	3320	2270	1180	1300	1600	4850	2080	4540	503

Notes:

J - Estimated concentration.

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014**

	Location Name:	MW013A	MW014A	MW015A	MW016A	MW018A	MW019A	MW020A	MW022A	MW023A	MW023A
	Sample Name:	MW13A 051713	MW14A 051613	MW15A 051613	MW16 051613	MW18A 051313	MW19A 051313	MW20A 051313	MW22A 052113	DUP5 052013	MW23A 052013
	Sample Date:	5/17/2013	5/16/2013	5/16/2013	5/16/2013	5/13/2013	5/13/2013	5/13/2013	5/21/2013	5/20/2013	5/20/2013
	Sample Type:									(Duplicate)	
	Units										
Metals											
Arsenic (dissolved)	mg/L	0.0303	0.0198 J	0.00913 J	0.0153 J	<0.00756	0.0137 J	0.0109 J	<0.00756	0.0188 J	0.0189 J
Chromium (dissolved)	mg/L	<0.00355	<0.00355	0.00502 J	<0.00355	<0.00355	<0.00355	0.00787 J	0.0389	<0.00355	<0.00355
Chromium VI (hexavalent)	mg/L	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0348	<0.00500	<0.00500
Iron (dissolved)	mg/L	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	0.0337 J	<0.0188	<0.0188	<0.0188
Manganese (dissolved)	mg/L	<0.00291	<0.00291	0.00770 J	0.00528 J	0.0218	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291
Petroleum Products											
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Volatile Organic Compounds											
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry											
Chloride	mg/L	67.6	46.0	1410	250	22.9	266	958	59.6	46.5	45.1
Total dissolved solids (TDS)	mg/L	460	440	3400	909	219	1070	2320	412	494	473

Notes:

J - Estimated concentration.

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014**

	Location Name:	MW024A	MW039A	MW040A	MW042A	MW046A	MW048SA	MW049SA	MW050SA	MW051SA
	Sample Name:	MW24A 051313	MW39A 052113	MW40A 051713	MW42A 052213	MW46A 052213	MW48 SA 050813	MW49 SA 050813	MW50 SA 050813	DUP 2 050813
	Sample Date:	5/13/2013	5/21/2013	5/17/2013	5/22/2013	5/22/2013	5/8/2013	5/8/2013	5/8/2013	5/8/2013
	Sample Type:									(Duplicate)
	Units									
Metals										
Arsenic (dissolved)	mg/L	0.0144 J	0.0133 J	0.0191 J	<0.00756	<0.00756	<0.0115 J	<0.0128 J	<0.0112 J	<0.0118 J
Chromium (dissolved)	mg/L	0.147	0.101	<0.00355	0.0360	<0.00355	0.458	0.127	0.197	0.750
Chromium VI (hexavalent)	mg/L	0.127	0.0989	<0.00500	0.0315	0.0573	0.464	0.133	0.198	0.772
Iron (dissolved)	mg/L	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188
Manganese (dissolved)	mg/L	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291	0.0153 J	<0.00291
Petroleum Products										
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	1.89	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	1.89	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Volatile Organic Compounds										
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.00200	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	0.00200	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry										
Chloride	mg/L	483	186	50.3	427	323	613	1410	1300	966
Total dissolved solids (TDS)	mg/L	1270	1030	448	1270	1460	2370	3620	3640	3530

Notes:

J - Estimated concentration.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

<i>Location Name:</i>		<i>MW051SA</i>	<i>MW052SA</i>	<i>MW053SA</i>	<i>MW054SA</i>	<i>MW055SA</i>	<i>MW056SA</i>	<i>MW057SA</i>	<i>MW062A</i>	<i>MW063A</i>
<i>Sample Name:</i>		<i>MW51 SA 050813</i>	<i>MW52 SA 050813</i>	<i>MW53 SA 050813</i>	<i>MW 54 SA 050813</i>	<i>MW55 SA 050713</i>	<i>MW56 SA 050813</i>	<i>MW57 SA 050813</i>	<i>MW62A 051413</i>	<i>MW63A 051313</i>
<i>Sample Date:</i>		<i>5/8/2013</i>	<i>5/8/2013</i>	<i>5/8/2013</i>	<i>5/8/2013</i>	<i>5/7/2013</i>	<i>5/8/2013</i>	<i>5/8/2013</i>	<i>5/14/2013</i>	<i>5/13/2013</i>
<i>Sample Type:</i>										
<i>Units</i>										
<i>Metals</i>										
Arsenic (dissolved)	mg/L	<0.0160 J	<0.0232	<0.0193 J	<0.0116 J	<0.00756	<0.0183 J	<0.0146 J	0.0227	0.0241
Chromium (dissolved)	mg/L	0.759	0.254	<0.00355	0.143	0.235	0.401	0.0215	<0.00355	<0.00355
Chromium VI (hexavalent)	mg/L	0.743	0.255	<0.00500	0.145	0.176	0.435	0.0215	<0.00500	<0.00500
Iron (dissolved)	mg/L	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188
Manganese (dissolved)	mg/L	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291
<i>Petroleum Products</i>										
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
<i>Volatile Organic Compounds</i>										
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>										
Chloride	mg/L	1060	1410	308	752	595	1300	260	60.4	52.6
Total dissolved solids (TDS)	mg/L	3540	3650	1240	2360	2100	3570	1330	502	456

Notes:

J - Estimated concentration.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

<i>Location Name:</i>		<i>MW064SA</i>	<i>MW065SA</i>	<i>MW066SA</i>	<i>MW066SA</i>	<i>MW067SA</i>	<i>MW070A</i>	<i>MW071SA</i>	<i>MW072SA</i>	<i>MW073SA</i>
<i>Sample Name:</i>		<i>MW64SA</i>	<i>MW65 SA 050713</i>	<i>DUP 1 050713</i>	<i>MW66 SA 050713</i>	<i>MW67 SA 050813</i>	<i>MW70A 051413</i>	<i>MW71 SA 050713</i>	<i>MW72 SA 050813</i>	<i>MW73 SA 050813</i>
<i>Sample Date:</i>		<i>5/6/2013</i>	<i>5/7/2013</i>	<i>5/7/2013</i>	<i>5/7/2013</i>	<i>5/8/2013</i>	<i>5/14/2013</i>	<i>5/7/2013</i>	<i>5/8/2013</i>	<i>5/8/2013</i>
<i>Sample Type:</i>				<i>(Duplicate)</i>						
<i>Units</i>										
Metals										
Arsenic (dissolved)	mg/L	0.00818 J	0.0105 J	0.00808 J	0.00811 J	<0.0266	0.0203	0.0194 J	<0.0128 J	<0.0135 J
Chromium (dissolved)	mg/L	0.0817	0.314	<0.00355	<0.00355	<0.00355	0.00406 J	0.00425 J	<0.00355	<0.00355
Chromium VI (hexavalent)	mg/L	0.0813	0.317	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Iron (dissolved)	mg/L	<0.0188	<0.0188	0.0276 J	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188	<0.0188
Manganese (dissolved)	mg/L	<0.00291	<0.00291	1.09	1.19	<0.00291	<0.00291	0.203	<0.00291	<0.00291
Petroleum Products										
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Volatile Organic Compounds										
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry										
Chloride	mg/L	730	1020	1290	1300	164	46.8	119	302	225
Total dissolved solids (TDS)	mg/L	2610	2750	3470	3230	988	541	718	1380	1070

Notes:

J - Estimated concentration.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

<i>Location Name:</i>		<i>MW074SA</i>	<i>MW075SA</i>	<i>MW076SA</i>	<i>MW077SA</i>	<i>MW078SA</i>	<i>MW081SA</i>	<i>MW082SA</i>	<i>MW083SA</i>	<i>MW084SA</i>	<i>MW085SA</i>
<i>Sample Name:</i>		<i>MW74 SA 050713</i>	<i>MW75SA</i>	<i>MW76 SA 050713</i>	<i>MW77SA</i>	<i>MW78 SA 050813</i>	<i>MW81 SA 050813</i>	<i>MW82SA</i>	<i>MW83SA</i>	<i>MW84SA</i>	<i>MW85SA</i>
<i>Sample Date:</i>		<i>5/7/2013</i>	<i>5/6/2013</i>	<i>5/7/2013</i>	<i>5/6/2013</i>	<i>5/8/2013</i>	<i>5/8/2013</i>	<i>5/6/2013</i>	<i>5/6/2013</i>	<i>5/6/2013</i>	<i>5/6/2013</i>
<i>Sample Type:</i>											
<i>Units</i>											
Metals											
Arsenic (dissolved)	mg/L	0.0116 J	0.0103 J	0.00936 J	<0.00756	<0.0106 J	<0.0118 J	<0.00756	<0.00756	0.0101 J	<0.00756
Chromium (dissolved)	mg/L	0.0149	<0.00466 J	<0.00355	<0.00355	<0.00355	<0.00355	<0.00430 J	<0.00459 J	0.0360	<0.00784 J
Chromium VI (hexavalent)	mg/L	0.00610 J	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00700 J	0.0294	<0.00500
Iron (dissolved)	mg/L	<0.0188	0.0227 J	<0.0188	<0.0188	<0.0188	<0.0188	0.0499 J	0.0433 J	0.0294 J	<0.0188
Manganese (dissolved)	mg/L	<0.00291	<0.00291	<0.00291	<0.00291	<0.00291	0.233	0.404	2.46	<0.00291	0.476
Petroleum Products											
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Volatile Organic Compounds											
Benzene	mg/L	<0.000500	0.000590 J	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	0.000590 J	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry											
Chloride	mg/L	542	529	394	416	161	567	1370	1550	1010	594
Total dissolved solids (TDS)	mg/L	2100	2120	1930	1380	839	2000	3940	3700	3150	2560

Notes:

J - Estimated concentration.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

<i>Location Name:</i>		<i>MW086SA</i>	<i>MW087A</i>	<i>MW089SA</i>	<i>MW090SA</i>	<i>MW093SA</i>	<i>MW093SA</i>	<i>IW005</i>	<i>IW006</i>	<i>IW007</i>	<i>IW008</i>
<i>Sample Name:</i>		<i>MW86 SA 050713</i>	<i>MW87A 051613</i>	<i>MW89SA 051513</i>	<i>IMW90SA 051413</i>	<i>DUP3 051013</i>	<i>MW93 SA 051013</i>	<i>IW-5 050713</i>	<i>IW-6 050713</i>	<i>IW-7 050713</i>	<i>IW-8 050713</i>
<i>Sample Date:</i>		<i>5/7/2013</i>	<i>5/16/2013</i>	<i>5/15/2013</i>	<i>5/14/2013</i>	<i>5/10/2013</i>	<i>5/10/2013</i>	<i>5/7/2013</i>	<i>5/7/2013</i>	<i>5/7/2013</i>	<i>5/7/2013</i>
<i>Sample Type:</i>						<i>(Duplicate)</i>					
<i>Units</i>											
Metals											
Arsenic (dissolved)	mg/L	0.00795 J	0.0201	<0.00756	<0.00756	<0.00756	<0.00756	0.0165 J	<0.00756	0.107	0.0192 J
Chromium (dissolved)	mg/L	<0.00355	0.0596	0.0381	0.00542 J	0.286	0.210	0.0129	0.00531 J	0.0444 J	0.00472 J
Chromium VI (hexavalent)	mg/L	<0.00500	0.0162	0.0299	<0.00500	0.306	0.251	<0.00500	<0.00500	<0.00500	<0.00500
Iron (dissolved)	mg/L	<0.0188	0.661	<0.0188	<0.0188	0.0204 J	0.0278 J	1.61	0.513	10.2	0.679
Manganese (dissolved)	mg/L	0.00506 J	0.0851	<0.00291	<0.00291	<0.00291	<0.00291	1.07	1.32	3.98	2.60
Petroleum Products											
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	1.28 J	1.50 J	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	1.28 J	1.50 J	<0.988
Volatile Organic Compounds											
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry											
Chloride	mg/L	851	1120	102	166	696	656	860	798	861	529
Total dissolved solids (TDS)	mg/L	1970	2450	831	1150	2900	2800	2990	2920	4050	2340

Notes:

J - Estimated concentration.

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014**

<i>Location Name:</i>		<i>IW010</i>	<i>IW011</i>	<i>IW013</i>	<i>IW014</i>	<i>IW018</i>	<i>IW019</i>	<i>IW020</i>	<i>IW021</i>	<i>IW022</i>	<i>IW023</i>	<i>IW024</i>	<i>IW025</i>
<i>Sample Name:</i>		<i>IW-10 050713</i>	<i>IW-11 050713</i>	<i>IW13 051313</i>	<i>IW14</i>	<i>IW18 051013</i>	<i>IW19 051013</i>	<i>IW20 051013</i>	<i>IW21 051313</i>	<i>IW22 051313</i>	<i>IW23 051313</i>	<i>IW24 051413</i>	<i>IW25 051413</i>
<i>Sample Date:</i>		<i>5/7/2013</i>	<i>5/7/2013</i>	<i>5/13/2013</i>	<i>5/6/2013</i>	<i>5/10/2013</i>	<i>5/10/2013</i>	<i>5/10/2013</i>	<i>5/13/2013</i>	<i>5/13/2013</i>	<i>5/13/2013</i>	<i>5/14/2013</i>	<i>5/14/2013</i>
<i>Sample Type:</i>													
	<i>Units</i>												
<i>Metals</i>													
Arsenic (dissolved)	mg/L	<0.00756	0.0457	<0.00756	0.144	0.0309	<0.00756	<0.00756	0.0120 J	<0.00756	0.00985 J	<0.00756	<0.00756
Chromium (dissolved)	mg/L	0.00403 J	<0.00355	<0.00355	0.0731	1.17	<0.00355	0.111	<0.00355	0.139	0.0108	0.0723	0.0269
Chromium VI (hexavalent)	mg/L	<0.00500	<0.00500	<0.00500	<0.0500	0.856	<0.00500	0.0931	<0.00500	0.133	0.00760 J	0.0651	<0.00500
Iron (dissolved)	mg/L	0.0813 J	0.765	0.398	2.19	1.94	<0.0188	<0.0188	<0.0188	<0.0188	0.0262 J	<0.0188	0.993
Manganese (dissolved)	mg/L	9.17	0.990	0.226	0.785	1.43	0.0196 J	0.0407	<0.00291	<0.00291	<0.00291	<0.00291	0.120
<i>Petroleum Products</i>													
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	1.26 J	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	1.29 J
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	1.26 J	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	1.29 J
<i>Volatile Organic Compounds</i>													
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>													
Chloride	mg/L	1040	1000	1030	1080	932	386	408	266	375	537	443	531
Total dissolved solids (TDS)	mg/L	3350	3390	3120	3190	3520	1390	2000	1550	1500	1680	2230	2490

Notes:

J - Estimated concentration.

TABLE 2

ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

	Location Name:	IW026	IW027	IW028	RW004A	GOPWW2	LordWW	WoodellWW
	Sample Name:	IW26 051413	IW27 051413	IW28 051513	RW004A 052013	GopWW2 052313	Lordww 052313	Woodell WW 052213
	Sample Date:	5/14/2013	5/14/2013	5/15/2013	5/20/2013	5/23/2013	5/23/2013	5/22/2013
	Sample Type:							
	Units							
Metals								
Arsenic (dissolved)	mg/L	<0.00756	<0.00756	0.0110 J	0.0102 J	<0.00756	<0.00756	0.00973 J
Chromium (dissolved)	mg/L	0.00527 J	0.0123	0.0202	0.0260	<0.00355	<0.00355	0.0329
Chromium VI (hexavalent)	mg/L	<0.00500	<0.00500	0.0127	<0.0500	<0.00500	0.0174	0.0299
Iron (dissolved)	mg/L	<0.0188	<0.0188	<0.0188	7.25	<0.0188	<0.0188	<0.0188
Manganese (dissolved)	mg/L	<0.00291	<0.00291	<0.00291	0.215	1.11	0.0539	<0.00291
Petroleum Products								
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988	<0.988
Volatile Organic Compounds								
Benzene	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Ethylbenzene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	0.00101	<0.000700	<0.000700
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000500	<0.000500	<0.000500	<0.000500	0.00101	<0.000500	<0.000500
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
General Chemistry								
Chloride	mg/L	484	98.3	140	462	1350	1430	634
Total dissolved solids (TDS)	mg/L	1730	1030	1300	3780	3070	3330	2240

Notes:

J - Estimated concentration.

TABLE 3

ANALYTICAL METHODS AND HOLDING TIME CRITERIA

GROUNDWATER SAMPLING EVENT

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE

EUNICE, NEW MEXICO

MAY 2014

<i>Parameter</i>	<i>Method¹</i>	<i>Matrix</i>	<i>Holding Time Collection to Analysis (Days)</i>
Chloride	300/300.1	Water	28
TDS	SM 2540C	Water	7
Metals	SW-846 6010B	Water	180
Chromium VI (hexavalent)	SW-846 7196A	Water	1
TPH	SW-846 8015	Water	14
BTEX	SW-846 8021	Water	14

Notes:

- SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- SM - "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions
- ¹ - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- TDS - Total dissolved solids
- TPH - Total petroleum hydrocarbons
- BTEX - Benzene, toluene, ethylbenzene, and xylenes

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO HOLDING TIME EXCEEDANCE
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

<i>Parameter</i>	<i>Sample ID</i>	<i>Holding Time (days)</i>	<i>Holding Time Criteria (days)</i>	<i>Analyte</i>	<i>Qualified Sample Results</i>	<i>Units</i>
Wet Chemistry	MW-2 052214	10	7	Total dissolved solids (TDS)	3180 J	mg/L

Notes:

J - Estimated concentration

TABLE 5
QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result *</i>	<i>Sample ID</i>	<i>Original Result</i>		<i>Qualified Result</i>		<i>Units</i>
Metals	Manganese (dissolved)	5/12/14	0.00556	DUP-2-050714	0.00585	J	<0.00585	UJ	mg/L
				MW-10-050714	0.00850	J	<0.00850	UJ	mg/L
				MW-14A-050714	0.0121	J	<0.0121	UJ	mg/L
				MW-40A-050714	0.00796	J	<0.00796	UJ	mg/L
				MW-7A-050714	0.0139	J	<0.0139	UJ	mg/L
	Chromium (dissolved)	5/12/14	0.00199	DUP-2-050714	0.00239	J	<0.00239	UJ	mg/L
				MW-13A-050714	0.00218	J	<0.00218	UJ	mg/L
				MW-14A-050714	0.00196	J	<0.00196	UJ	mg/L
				MW-40A-050714	0.00162	J	<0.00162	UJ	mg/L
				MW-8-050714	0.00225	J	<0.00225	UJ	mg/L
				MW-97-050714	0.00938	J	<0.00938	UJ	mg/L
	Chromium (dissolved)	5/19/14	0.00186	MW-32-051214	0.00796	J	<0.00796	UJ	mg/L
	Chromium (dissolved)	5/19/14	0.00479	MW-58 051314	0.00788	J	<0.00788	UJ	mg/L
				MW-59 051314	0.00609	J	<0.00609	UJ	mg/L
	Arsenic (dissolved)	5/22/14	0.009	DUP-6 051514	0.0180	J	<0.0180	UJ	mg/L
				MW-48SA 051514	0.0179	J	<0.0179	UJ	mg/L
				MW-49SA 051514	0.0146	J	<0.0146	UJ	mg/L
				MW-51SA 051514	0.0165	J	<0.0165	UJ	mg/L
				MW-52SA 051514	0.0171	J	<0.0171	UJ	mg/L
				MW-53SA 051514	0.0179	J	<0.0179	UJ	mg/L
				MW-54SA 051514	0.0157	J	<0.0157	UJ	mg/L
				MW-56SA 051514	0.0186	J	<0.0186	UJ	mg/L
				MW-66SA 051514	0.0115	J	<0.0115	UJ	mg/L
				MW-67SA 051514	0.0188	J	<0.0188	UJ	mg/L
				MW-72SA 051514	0.0177	J	<0.0177	UJ	mg/L
				MW-78SA 051514	0.0174	J	<0.0174	UJ	mg/L
				MW-79SA 051514	0.0145	J	<0.0145	UJ	mg/L

TABLE 5
QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result *</i>	<i>Sample ID</i>	<i>Original Result</i>		<i>Qualified Result</i>		<i>Units</i>
	Manganese (dissolved)	5/22/14	0.00335	DUP-6 051514	0.0101	J	<0.0101	UJ	mg/L
				MW-48SA 051514	0.00579	J	<0.00579	UJ	mg/L
				MW-49SA 051514	0.00558	J	<0.00558	UJ	mg/L
				MW-51SA 051514	0.00528	J	<0.00528	UJ	mg/L
				MW-52SA 051514	0.00339	J	<0.00339	UJ	mg/L
				MW-54SA 051514	0.00357	J	<0.00357	UJ	mg/L
				MW-67SA 051514	0.00506	J	<0.00506	UJ	mg/L
				MW-72SA 051514	0.00767	J	<0.00767	UJ	mg/L
				MW-78SA 051514	0.00443	J	<0.00443	UJ	mg/L
	Iron (dissolved)	5/28/14	0.0645	DUP-8 052014	0.190	J	<0.190	UJ	mg/L
				IW-16 052014	0.226		<0.226	U	mg/L
				IW-8 052014	0.232		<0.232	U	mg/L
	Manganese (dissolved)	5/29/14	0.005	IW-24 052214	0.00925	J	<0.00925	UJ	mg/L
				IW-26 052214	0.0121	J	<0.0121	UJ	mg/L
				IW-27 052214	0.00718	J	<0.00718	UJ	mg/L
				MW-2A 052214	0.00779	J	<0.00779	UJ	mg/L
				MW-46A 052214	0.00484	J	<0.00484	UJ	mg/L
				MW90SA 052214	0.00331	J	<0.00331	UJ	mg/L

Notes:

* - Blank result adjusted for sample factors where applicable

U - Not detected at the associated reporting limit

J - Estimated concentration

UJ - Estimated non-detect

TABLE 6
QUALIFIED SAMPLE DATA DUE TO OUTLYING MATRIX SPIKE RECOVERIES
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014

<i>Parameter</i>	<i>Spiked Sample ID</i>	<i>Analyte</i>	<i>MS % Recovery</i>	<i>Control Limits % Recovery</i>	<i>Associated Sample IDs</i>	<i>Qualified Result</i>	<i>Units</i>
Wet Chemistry	MW-55SA 051414	Chloride	54	80 - 120	DUP-5 051414	413 J	mg/L
					MW-55SA 051414	602 J	mg/L
					MW-57SA 051414	61.9 J	mg/L
					MW-65SA 051414	1050 J	mg/L
					MW-74SA 051414	596 J	mg/L
					MW-75SA 051414	444 J	mg/L
					MW-76SA 051414	397 J	mg/L
					MW-83SA 051414	1060 J	mg/L
					MW-85SA 051414	812 J	mg/L
					MW-84SA 051414	1070 J	mg/L
					MW-86SA 051414	605 J	mg/L

Notes:

MS - Matrix spike

J - Estimated concentration

TABLE 7

**QUALIFIED SAMPLE DATA DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
MAY 2014**

<i>Parameter</i>	<i>Analyte</i>	<i>RPD/Diff</i>		<i>Sample ID</i>	<i>Qualified Result</i>	<i>Field Duplicate Sample ID</i>	<i>Qualified Result</i>	<i>Units</i>
TAL Metals	Chromium VI	0.017	Diff	MW-13A-050714484841-009	0.022 J	DUP-2-050714	<0.0050 U	mg/kg
	Manganese (dissolved)	0.00734	Diff	MW-41A 051614485610-004	<0.00316 U	DUP-7 051614	0.0105 J	mg/kg
	Benzene	177.6	RPD	MW-45 052214485996-007	0.0135 J	DUP-10 052214	0.0008 U	mg/kg
	Chloride	66.1	RPD	MW-45 052214485996-007	168 J	DUP-10 052214	334 J	mg/kg

Notes:

Diff - Difference (i.e., >1X RL for waters or >2XRL for soils)

RPD - Relative percent difference

U - Not present at or above the associated value

J - Estimated concentration

Analytical Report 484736

for

Conestoga Rovers & Associates

Project Manager: Claudia Ramos

North Eunice

073018

14-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



14-MAY-14

Project Manager: **Claudia Ramos**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **484736**

North Eunice

Project Address: Eunice, NM

Claudia Ramos:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 484736. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 484736 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-9-050614	W	05-06-14 11:05		484736-001
MW-38-050614	W	05-06-14 12:45		484736-002
MW-1-050614	W	05-06-14 14:05		484736-003
MW-11M-050614	W	05-06-14 15:05		484736-004
MW-8M-050614	W	05-06-14 16:20		484736-005
DUP-1-050614	W	05-06-14 00:00		484736-006
MW-20A-050614	W	05-06-14 11:40		484736-007
MW-20-050614	W	05-06-14 12:35		484736-008
MW-19A-050614	W	05-06-14 13:30		484736-009
MW-16A-050614	W	05-06-14 14:40		484736-010
MW-15-050614	W	05-06-14 15:30		484736-011
MW-15A-050614	W	05-06-14 16:25		484736-012
Trip Blank	W	05-06-14 00:00		484736-013



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *North Eunice*

Project ID: 073018
Work Order Number(s): 484736

Report Date: 14-MAY-14
Date Received: 05/06/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-9-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-001 Date Collected: 05.06.14 11.05 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1540	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	125	20.0	0.560	mg/L	05.08.14 18:25		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 18:35	U	1
Chromium	7440-47-3	0.0310	0.0100	0.000811	mg/L	05.09.14 18:35		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.09.14 18:35	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.09.14 18:35	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep:
Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0141	0.0100	0.00500	mg/L	05.06.14 19:30		1



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-9-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-001

Date Collected: 05.06.14 11.05

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.07.14 17:30	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.07.14 17:30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.07.14 17:30	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.07.14 17:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	120	70 - 135	%		
o-Terphenyl	123	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 18:29	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 18:29	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 18:29	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 18:29	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 18:29	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 18:29	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 18:29	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-38-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-002 Date Collected: 05.06.14 12.45 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1190	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	144	20.0	0.560	mg/L	05.08.14 19:20		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 19:07	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.09.14 19:07	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.09.14 19:07	U	1
Manganese	7439-96-5	0.223	0.0200	0.00316	mg/L	05.09.14 19:07		1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep:
Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.06.14 19:30	U	5



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-38-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-002

Date Collected: 05.06.14 12.45

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.07.14 18:44	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 18:44	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 18:44	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.07.14 18:44	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	121	70 - 135	%		
o-Terphenyl	119	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00282	0.00100	0.000800	mg/L	05.07.14 18:45		1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 18:45	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 18:45	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 18:45	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 18:45	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 18:45	U	
Total BTEX		0.00282		0.000700	mg/L	05.07.14 18:45		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	100	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-1-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-003 Date Collected: 05.06.14 14.05 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3240	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	429	50.0	1.40	mg/L	05.08.14 19:38		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 19:14	U	1
Chromium	7440-47-3	0.113	0.0100	0.000811	mg/L	05.09.14 19:14		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.09.14 19:14	U	1
Manganese	7439-96-5	0.260	0.0200	0.00316	mg/L	05.09.14 19:14		1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep:
Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.112	0.0100	0.00500	mg/L	05.06.14 19:30		1



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-1-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-003

Date Collected: 05.06.14 14.05

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.07.14 19:09	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 19:09	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 19:09	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.07.14 19:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	97	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 19:02	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 19:02	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 19:02	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 19:02	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 19:02	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 19:02	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 19:02	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-11M-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-004 Date Collected: 05.06.14 15.05 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4720	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1240	100	2.80	mg/L	05.08.14 19:57		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 19:33	U	1
Chromium	7440-47-3	0.0216	0.0100	0.000811	mg/L	05.09.14 19:33		1
Iron	7439-89-6	0.267	0.200	0.0283	mg/L	05.09.14 19:33		1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.09.14 19:33	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep:
Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.06.14 19:30	U	5



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-11M-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-004

Date Collected: 05.06.14 15.05

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.07.14 19:34	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 19:34	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 19:34	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.07.14 19:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	117	70 - 135	%		
o-Terphenyl	114	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 19:18	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 19:18	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 19:18	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 19:18	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 19:18	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 19:18	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 19:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-8M-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-005 Date Collected: 05.06.14 16.20 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	5390	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1330	100	2.80	mg/L	05.08.14 20:15		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 19:40	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.09.14 19:40	U	1
Iron	7439-89-6	69.5	0.200	0.0283	mg/L	05.09.14 19:40		1
Manganese	7439-96-5	3.33	0.0200	0.00316	mg/L	05.09.14 19:40		1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep:
Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.06.14 19:30	U	5



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-8M-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-005

Date Collected: 05.06.14 16.20

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.07.14 19:58	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 19:58	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 19:58	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.07.14 19:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 19:35	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 19:35	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 19:35	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 19:35	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 19:35	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 19:35	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 19:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **DUP-1-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-006 Date Collected: 05.06.14 00.00 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	5390	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1330	100	2.80	mg/L	05.08.14 20:33		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 19:47	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.09.14 19:47	U	1
Iron	7439-89-6	82.5	0.200	0.0283	mg/L	05.09.14 19:47		1
Manganese	7439-96-5	3.30	0.0200	0.00316	mg/L	05.09.14 19:47		1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep:
Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.06.14 19:30	U	5



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: DUP-1-050614

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-006

Date Collected: 05.06.14 00.00

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.07.14 20:24	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 20:24	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 20:24	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.07.14 20:24	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	113	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 19:51	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 19:51	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 19:51	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 19:51	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 19:51	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 19:51	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 19:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-20A-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-007 Date Collected: 05.06.14 11.40 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3140	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	951	100	2.80	mg/L	05.08.14 21:29		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 19:54	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.09.14 19:54	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.09.14 19:54	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.09.14 19:54	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep:
Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.06.14 19:30	U	1



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-20A-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-007

Date Collected: 05.06.14 11.40

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.07.14 20:49	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 20:49	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 20:49	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.07.14 20:49	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	108	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 20:08	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 20:08	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 20:08	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 20:08	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 20:08	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 20:08	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 20:08	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-20-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-008 Date Collected: 05.06.14 12.35 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2530	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	741	100	2.80	mg/L	05.08.14 21:47		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 20:00	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.09.14 20:00	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.09.14 20:00	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.09.14 20:00	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep:
Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.06.14 19:30	U	1



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-20-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-008

Date Collected: 05.06.14 12.35

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.07.14 21:14	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 21:14	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 21:14	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.07.14 21:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	124	70 - 135	%		
o-Terphenyl	122	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 20:24	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 20:24	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 20:24	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 20:24	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 20:24	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 20:24	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 20:24	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-19A-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-009 Date Collected: 05.06.14 13.30 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1230	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	281	50.0	1.40	mg/L	05.08.14 22:06		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 20:07	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.09.14 20:07	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.09.14 20:07	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.09.14 20:07	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep:
Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.06.14 19:30	U	1



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-19A-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-009

Date Collected: 05.06.14 13.30

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.07.14 21:38	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 21:38	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 21:38	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.07.14 21:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 20:41	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 20:41	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 20:41	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 20:41	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 20:41	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 20:41	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 20:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-16A-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-010 Date Collected: 05.06.14 14.40 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1820	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	590	50.0	1.40	mg/L	05.08.14 22:24		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 20:13	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.09.14 20:13	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.09.14 20:13	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.09.14 20:13	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep:
Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.06.14 19:30	U	1



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-16A-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-010

Date Collected: 05.06.14 14.40

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.07.14 22:03	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 22:03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 22:03	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.07.14 22:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	116	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 21:31	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 21:31	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 21:31	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 21:31	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 21:31	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 21:31	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 21:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-15-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-011

Date Collected: 05.06.14 15.30

Date Received: 05.06.14 19.25

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940519

Date Prep:

Subcontractor: SUB: TX104704215

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2480	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940472

Date Prep: 05.08.14 10.45

Subcontractor: SUB: TX104704215

Prep seq: 655167

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	639	100	2.80	mg/L	05.08.14 22:42		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940683

Date Prep: 05.09.14 09.30

Subcontractor: SUB: TX104704215

Prep seq: 655185

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 20:20	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.09.14 20:20	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.09.14 20:20	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.09.14 20:20	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940890

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.06.14 19:30	U	1



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-15-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-011

Date Collected: 05.06.14 15.30

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.07.14 23:15	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 23:15	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 23:15	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.07.14 23:15	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	111	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 21:47	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 21:47	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 21:47	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 21:47	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 21:47	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 21:47	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 21:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-15A-050614** Matrix: Water Sample Depth:
Lab Sample Id: 484736-012 Date Collected: 05.06.14 16.25 Date Received: 05.06.14 19.25
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	10500	5.00	5.00	mg/L	05.09.14 14:35		1

Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940557 Date Prep: 05.09.14 09.53
Subcontractor: SUB: TX104704215 Prep seq: 655222

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	3410	500	14.0	mg/L	05.09.14 10:14		500

Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 20:26	U	1
Chromium	7440-47-3	0.0113	0.0100	0.000811	mg/L	05.09.14 20:26		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.09.14 20:26	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.09.14 20:26	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940890 Date Prep:
Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.06.14 19:30	U	1



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **MW-15A-050614**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-012

Date Collected: 05.06.14 16.25

Date Received: 05.06.14 19.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940368

Date Prep: 05.07.14 14.00

Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.07.14 23:41	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.07.14 23:41	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.07.14 23:41	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.07.14 23:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	110	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 22:04	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 22:04	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 22:04	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 22:04	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 22:04	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 22:04	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 22:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: **Trip Blank**

Matrix: Water

Sample Depth:

Lab Sample Id: 484736-013

Date Collected: 05.06.14 00.00

Date Received: 05.06.14 19.25

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 22:20	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 22:20	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 22:20	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 22:20	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 22:20	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.07.14 22:20	U	
Total BTEX		ND		0.000700	mg/L	05.07.14 22:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		

Sample Id: **655101-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655101-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940347

Date Prep: 05.07.14 10.00

Prep seq: 655101

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.07.14 15:15	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.07.14 15:15	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.07.14 15:15	U	1
m_p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.07.14 15:15	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.07.14 15:15	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: 655111-1-BLK Matrix: Water Sample Depth:
Lab Sample Id: 655111-1-BLK Date Collected: Date Received:
Analytical Method: TPH By SW8015 Mod Prep Method: 1005
Analyst: ARM % Moist: Tech: ARM
Seq Number: 940368 Date Prep: 05.07.14 14.00
Prep seq: 655111

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.07.14 16:12	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.07.14 16:12	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.07.14 16:12	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.07.14 16:12	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	126	70 - 135	%		
o-Terphenyl	128	70 - 135	%		

Sample Id: 655167-1-BLK Matrix: Water Sample Depth:
Lab Sample Id: 655167-1-BLK Date Collected: Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940472 Date Prep: 05.08.14 10.45
Subcontractor: SUB: TX104704215 Prep seq: 655167

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.08.14 10:14	U	1
Nitrate as N	14797-55-8	ND	0.0230	0.00400	mg/L	05.08.14 10:14	U	1
Nitrite as N	14797-65-0	ND	0.0300	0.00800	mg/L	05.08.14 10:14	U	1

Sample Id: 655185-1-BLK Matrix: Water Sample Depth:
Lab Sample Id: 655185-1-BLK Date Collected: Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B Prep Method: 3010A
Analyst: MKO % Moist: Tech: MKO
Seq Number: 940683 Date Prep: 05.09.14 09.30
Subcontractor: SUB: TX104704215 Prep seq: 655185

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.09.14 18:16	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.09.14 18:16	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.09.14 18:16	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.09.14 18:16	U	1



Certificate of Analytical Results

484736



Conestoga Rovers & Associates, Midland, TX

North Eunice

Sample Id: 655222-1-BLK Matrix: Water Sample Depth:
Lab Sample Id: 655222-1-BLK Date Collected: Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: DEP % Moist: Tech: DEP
Seq Number: 940557 Date Prep: 05.09.14 09.53
Subcontractor: SUB: TX104704215 Prep seq: 655222

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.09.14 09:37	U	1

Sample Id: 940519-1-BLK Matrix: Water Sample Depth:
Lab Sample Id: 940519-1-BLK Date Collected: Date Received:
Analytical Method: TDS by SM2540C Prep Method:
Analyst: ANS % Moist: Tech: ANS
Seq Number: 940519 Date Prep: Date Prep:
Subcontractor: SUB: TX104704215 Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.09.14 14:35	U	1

Sample Id: 940889-1-BLK Matrix: Water Sample Depth:
Lab Sample Id: 940889-1-BLK Date Collected: Date Received:
Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940889 Date Prep: Date Prep:
Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.06.14 19:30	U	1

Sample Id: 940890-1-BLK Matrix: Water Sample Depth:
Lab Sample Id: 940890-1-BLK Date Collected: Date Received:
Analytical Method: Chromium, Hexavalent by SW 7196A Prep Method:
Analyst: WRU % Moist: Tech: WRU
Seq Number: 940890 Date Prep: Date Prep:
Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.06.14 19:30	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Form 2 - Surrogate Recoveries

Project Name: North Eunice

Work Orders : 484736,

Project ID: 073018

Lab Batch #: 940347

Sample: 655101-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/07/14 15:15	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0272	0.0300	91	80-120
4-Bromofluorobenzene		0.0280	0.0300	93	80-120

Lab Batch #: 940347

Sample: 655101-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/07/14 15:31	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0295	0.0300	98	80-120
4-Bromofluorobenzene		0.0323	0.0300	108	80-120

Lab Batch #: 940347

Sample: 655101-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/07/14 15:48	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0297	0.0300	99	80-120
4-Bromofluorobenzene		0.0327	0.0300	109	80-120

Lab Batch #: 940347

Sample: 484664-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/07/14 16:05	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0293	0.0300	98	80-120
4-Bromofluorobenzene		0.0327	0.0300	109	80-120

Lab Batch #: 940347

Sample: 484664-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/07/14 16:21	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0306	0.0300	102	80-120
4-Bromofluorobenzene		0.0333	0.0300	111	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: North Eunice

Work Orders : 484736,

Project ID: 073018

Lab Batch #: 940368

Sample: 655111-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/07/14 16:12	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.4	9.88	126	70-135
o-Terphenyl		6.34	4.94	128	70-135

Lab Batch #: 940368

Sample: 655111-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/07/14 16:39	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.4	9.87	126	70-135
o-Terphenyl		4.99	4.94	101	70-135

Lab Batch #: 940368

Sample: 655111-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/07/14 17:04	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.7	9.88	129	70-135
o-Terphenyl		4.90	4.94	99	70-135

Lab Batch #: 940368

Sample: 484736-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/07/14 17:55	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.7	9.87	129	70-135
o-Terphenyl		4.77	4.93	97	70-135

Lab Batch #: 940368

Sample: 484736-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/07/14 18:20	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.6	9.87	128	70-135
o-Terphenyl		5.06	4.94	102	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Work Order #: 484736

Project ID:

073018

Lab Batch #: 940889

Sample: 940889-1-BKS

Matrix: Water

Date Analyzed: 05/06/2014

Date Prepared: 05/06/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.0100	0.0400	0.0384	96	75-125	

Lab Batch #: 940890

Sample: 940890-1-BKS

Matrix: Water

Date Analyzed: 05/06/2014

Date Prepared: 05/06/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.0100	0.0400	0.0368	92	75-125	

Lab Batch #: 940472

Sample: 655167-1-BKS

Matrix: Water

Date Analyzed: 05/08/2014

Date Prepared: 05/08/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<1.00	10.0	9.80	98	90-110	

Lab Batch #: 940557

Sample: 655222-1-BKS

Matrix: Water

Date Analyzed: 05/09/2014

Date Prepared: 05/09/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<1.00	10.0	9.70	97	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: North Eunice

Work Order #: 484736

Project ID: 073018

Analyst: ARM

Date Prepared: 05/07/2014

Date Analyzed: 05/07/2014

Lab Batch ID: 940347

Sample: 655101-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.0995	100	0.100	0.0988	99	1	70-125	25	
Toluene	<0.00200	0.100	0.0995	100	0.100	0.0986	99	1	70-125	25	
Ethylbenzene	<0.00100	0.100	0.106	106	0.100	0.105	105	1	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.219	110	0.200	0.217	109	1	70-131	25	
o-Xylene	<0.00100	0.100	0.110	110	0.100	0.109	109	1	71-133	25	

Analyst: MKO

Date Prepared: 05/09/2014

Date Analyzed: 05/09/2014

Lab Batch ID: 940683

Sample: 655185-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.0200	1.00	0.996	100	1.00	0.962	96	3	80-120	20	
Chromium	<0.0100	1.00	1.02	102	1.00	0.987	99	3	80-120	20	
Iron	<0.200	5.00	5.09	102	5.00	4.98	100	2	80-120	20	
Manganese	<0.0200	1.00	1.02	102	1.00	0.994	99	3	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: North Eunice

Work Order #: 484736

Project ID: 073018

Analyst: ANS

Date Prepared: 05/09/2014

Date Analyzed: 05/09/2014

Lab Batch ID: 940519

Sample: 940519-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1050	105	1000	1060	106	1	80-120	10	

Analyst: ARM

Date Prepared: 05/07/2014

Date Analyzed: 05/07/2014

Lab Batch ID: 940368

Sample: 655111-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<1.48	98.7	100	101	98.8	101	102	1	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<1.48	98.7	108	109	98.8	107	108	1	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: North Eunice

Work Order # : 484736

Project ID: 073018

Lab Batch ID: 940347

QC- Sample ID: 484664-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/07/2014

Date Prepared: 05/07/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.00100	0.100	0.0980	98	0.100	0.108	108	10	70-125	25	
Toluene	<0.00200	0.100	0.0982	98	0.100	0.108	108	10	70-125	25	
Ethylbenzene	<0.00100	0.100	0.105	105	0.100	0.116	116	10	71-129	25	
m_p-Xylenes	<0.00200	0.200	0.217	109	0.200	0.238	119	9	70-131	25	
o-Xylene	<0.00100	0.100	0.108	108	0.100	0.119	119	10	71-133	25	

Lab Batch ID: 940889

QC- Sample ID: 484736-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/06/2014

Date Prepared: 05/06/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.0141	0.200	0.214	100	0.200	0.215	100	0	75-125	20	

Lab Batch ID: 940890

QC- Sample ID: 484736-011 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/06/2014

Date Prepared: 05/06/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	<0.0100	0.200	0.201	101	0.200	0.202	101	0	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: North Eunice

Work Order # : 484736

Project ID: 073018

Lab Batch ID: 940683

QC- Sample ID: 484736-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/09/2014

Date Prepared: 05/09/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.0200	1.00	0.977	98	1.00	0.983	98	1	75-125	20	
Chromium	0.0310	1.00	0.981	95	1.00	0.986	96	1	75-125	20	
Iron	<0.200	5.00	4.45	89	5.00	4.66	93	5	75-125	20	
Manganese	<0.0200	1.00	0.980	98	1.00	1.02	102	4	75-125	20	

Lab Batch ID: 940472

QC- Sample ID: 484706-001 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 05/08/2014

Date Prepared: 05/08/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	9.95	10.0	19.6	97	10.0	19.4	95	1	80-120	20	

Lab Batch ID: 940472

QC- Sample ID: 484736-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/08/2014

Date Prepared: 05/08/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	125	200	309	92	200	316	96	2	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: North Eunice

Work Order # : 484736

Project ID: 073018

Lab Batch ID: 940557

QC- Sample ID: 484736-012 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/09/2014

Date Prepared: 05/09/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	3410	5000	8200	96	5000	8210	96	0	80-120	20	

Lab Batch ID: 940557

QC- Sample ID: 484804-008 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/09/2014

Date Prepared: 05/09/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	343	500	816	95	500	813	94	0	80-120	20	

Lab Batch ID: 940368

QC- Sample ID: 484736-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/07/2014

Date Prepared: 05/07/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<1.48	98.7	105	106	98.7	107	108	2	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<1.48	98.7	102	103	98.7	106	107	4	70-135	25	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: North Eunice

Work Order #: 484736

Lab Batch #: 940519

Project ID: 073018

Date Analyzed: 05/09/2014 14:35

Date Prepared: 05/09/2014

Analyst: ANS

QC- Sample ID: 484736-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1540	1600	4	10	

Lab Batch #: 940519

Date Analyzed: 05/09/2014 14:35

Date Prepared: 05/09/2014

Analyst: ANS

QC- Sample ID: 484736-010 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1820	1770	3	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



CHAIN OF CUSTODY RECORD

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Page 1 of 2

LAB W.O.#:

484736

Field billable Hrs:

* Container Type Code

VA Vial Amber ES Encore St
VC Vial Clear TS TerraCore
VP Vial Pro-preserved AC Air Canis
GA Glass Amber TB Tedlar Bu
GC Glass Clear ZB Zip Lock
PA Plastic Amber PC Plastic C
Other

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal

** Preservative Type Code

A. None E. HCL I. Ice
B. HNO₃ F. MeOH J. MCAA
C. H₂SO₄ G. Na₂S₂O₃ K. ZnAc₂
D. NaOH H. NaHSO₄ L. Ascorb
O.

^ Matrix Type Code

GW Ground Water S
Soil/Sediment/Solid W Wipe
WW Waste Water A Air
DW Drinking Water O Oil
SW Surface Water T Tissue
OW Ocean/Sea Water U Urine
PL Product-Liquid B Blood
PS Product-Solid
SI Sludge

REMARKS

Company: CRA
Address: 2135 S. Loop 250 W
City: Midland
PM/Attn: St: TX Zip: 79703
Phone: 432-686-0086
Fax: 432-686-0186

TAT Work Days = D Need results by:

Time:

Std (5-7D) Same Day (1D) 2D 3D 4D 5D 7D 10D 14D Other

Project ID/ Location: 073018 Elmer, NM
Invoice To: PO#: Quote #:

ANALYSES REQUESTED

Sample #	Sample ID	Circle One Event: Daily Weekly Monthly				Matrix Code ^	Field Filtered	Depth	Total # of containers	Example Volatiles by 8260	Analyses Requested										Hold Sample (CALL) on Highest TPH	Run PAR Only #
		Collect Date	Collect Time	Quarterly	Semi-Annual						Conf Type * VC	Pres Type ** E I										
1	MW-1	6/16/04	11:35			GW	X	6"	2	# Cont												
2	MW-9-050614	5-6-14	1105			GW			9	Lab Only:												
3	MW-38-050614		1245																			
4	MW-1-050614		1405																			
5	MW-11M-050614		1505																			
6	MW-8M-050614		1620																			
7	Dup-1-050614																					
8	MW-20A-050614		1140																			
9	MW-20-050614		1235																			
10	MW-19A-050614		1330																			
11	MW-16A-050614		1440																			

Reg. Program / Clean-up Std

CTLs TRRP DW NPDES LPST DryCin
Other:

STATE for Certs & Regs

FL TX GA NC SC NJ PA OK
LA AL NM Other:

QA/QC Level & Certification

1 2 3 4 CLP AFCEE QAPP
NELAC DoD-ELAP Other:

EDDs

ADaPT SEDD ERPIMS
XLS Other:

COC & Labels

Match Incomplete
Absent Unclear

Coolers Temp °C

1 2 3

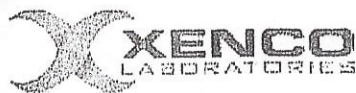
Lab Use Only

Non-Conformances found?
Samples intact upon arrival?
Received on Wet Ice?
Labeled with proper preservative?
Received within holding time?
Custody seals intact?
VOCs rec'd w/o headspace?
Proper containers used?
pH verified-acceptable, and VO
Received on time to meet HTS?

C.O.C. Serial #

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330
Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment
past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.
Revision Date: Nov 12, 2009



CHAIN OF CUSTODY RECORD

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Page 2 of 2

LAB W.O #:

484736

Field billable Hrs :

* Container Type Codes

VA Vial Amber	ES Encore Sampler
VC Vial Clear	TS TerraCore Sampler
VP Vial Pre-preserved	AC Air Canister
GA Glass Amber	TB Tedlar Bag
GC Glass Clear	ZB Zip Lock Bag
PA Plastic Amber	PC Plastic Clear
PC Plastic Clear	

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal

** Preservative Type Codes

A. None	E. HCL	I. Ice
B. HNO ₃	F. MeOH	J. MCAA
C. H ₂ SO ₄	G. Na ₂ S ₂ O ₃	K. ZnAc&NaOH
D. NaOH	H. NaHSO ₄	L. Asbc Acid&NaOH

^ Matrix Type Codes

GW Ground Water	S
Soil/Sediment/Solid	
WW Waste Water	W Wipe
DW Drinking Water	A Air
SW Surface Water	O Oil
OW Ocean/Sea Water	T Tissue
PL Product-Liquid	U Urine
PS Product-Solid	B Blood
SL Sludge	

REMARKS

Company: CRA	Phone: 432-686-0886
Address: 2135 S. Loop 50W	Fax: 432-686-0186
City: Midland	St: TX
PM/Attn:	Zip: 79703
Project ID/ Location: 073018 Eureka, NM	PO#:
Invoice To:	Quote #:

TAT Work Days = D Need results by:

Time:

Std (5-7D) Same Day (1D) 2D 3D 4D 5D 7D 10D 14D Other

ANALYSES REQUESTED

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code ^	Field Filtered	Depth	Total # of containers	Example Volatiles by 8260	Cont. Type VC Pres Type** E.I.										Hold Sample (CALL on Highest TPH) Only if
	MW-1	6/16/04	11:35	GW	X	6"	2	# Cont	Lab Only:										
1	MW-15 - 050614	5-6-14	1530						X	X	X	X	X	X	X				
2	MW-15A - 050614	↓	1625						X	X	X	X	X	X	X				
3	Trip Blank	5/6/14	—						X										
4																			
5																			
6																			
7																			
8																			
9																			
0																			

Reg. Program / Clean-up Std		STATE for Certs & Regs		QA/QC Level & Certification		EDDs		COC & Labels		Coolers Temp °C		Lab Use Only	
CTLs TRRP DW NPDES LPST DryCln		FL TX GA NC SC NJ PA OK		1 2 3 4 CLP AFCEE QAPP		ADAPT SEDD ERPIMS		Match Incomplete		1 2 3		Non-Conformances found?	YES NO N/A
Other:		LA AL NM Other:		NELAC DoD-ELAP Other:		XLS Other:		Absent Unclear				Samples intact upon arrival?	
Relinquished by		Affiliation		Date		Time		Received by		Affiliation		Date	
JG hij		CRA		5-6-14		1650		Bill Perkins		Xenco		5-6-14	
Bill Perkins		Xenco		5-6-14		19:25						18:00	



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/06/2014 07:25:00 PM

Work Order #: 484736

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	13.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/07/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/07/2014

Analytical Report 484841

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

15-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



15-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **484841**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 484841. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 484841 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
DUP-2-050714	W	05-07-14 00:00		484841-001
MW-8-050714	W	05-07-14 10:05		484841-002
MW-3-050714	W	05-07-14 11:25		484841-003
MW-96-050714	W	05-07-14 12:30		484841-004
MW-97-050714	W	05-07-14 13:35		484841-005
IW-29-050714	W	05-07-14 14:40		484841-006
MW-7A-050714	W	05-07-14 15:50		484841-007
MW-13-050714	W	05-07-14 15:40		484841-008
MW-13A-050714	W	05-07-14 14:45		484841-009
MW-10-050714	W	05-07-14 13:35		484841-010
MW-40A-050714	W	05-07-14 12:50		484841-011
MW-14-050714	W	05-07-14 11:30		484841-012
MW-14A-050714	W	05-07-14 10:40		484841-013
TRIP BLANK	W	05-07-14 00:00		484841-014



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018

Work Order Number(s): 484841

Report Date: 15-MAY-14

Date Received: 05/07/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-940773 Dissolved Metals per ICP by SW846 6010B

Chromium, Manganese detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples affected are: 484841-005, -006, -008, -009, -002, -001, -004, -007, -012, -003, -011, -010, -013.



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-2-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-001

Date Collected: 05.07.14 00.00

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940523

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	575	5.00	5.00	mg/L	05.09.14 14:40		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	66.3	20.0	0.560	mg/L	05.12.14 17:52		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0210	0.0200	0.00550	mg/L	05.12.14 21:50		1
Chromium	7440-47-3	0.00239	0.0100	0.000811	mg/L	05.12.14 21:50	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 21:50	U	1
Manganese	7439-96-5	0.00585	0.0200	0.00316	mg/L	05.12.14 21:50	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: DUP-2-050714

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-001

Date Collected: 05.07.14 00.00

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 18:32	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 18:32	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 18:32	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 18:32	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	97	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 23:06	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 23:06	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 23:06	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 23:06	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 23:06	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.13.14 23:06	U	
Total BTEX		ND		0.000700	mg/L	05.13.14 23:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-8-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-002

Date Collected: 05.07.14 10.05

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4000	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	924	100	2.80	mg/L	05.13.14 10:30		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.12.14 22:23	U	1
Chromium	7440-47-3	0.00225	0.0100	0.000811	mg/L	05.12.14 22:23	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 22:23	U	1
Manganese	7439-96-5	2.15	0.0200	0.00316	mg/L	05.12.14 22:23		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.07.14 19:10	U	5



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-8-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-002

Date Collected: 05.07.14 10.05

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.08.14 19:21	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	1.01	1.48	0.976	mg/L	05.08.14 19:21	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.08.14 19:21	U	1
Total TPH	PHCG635	1.01		0.976	mg/L	05.08.14 19:21	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	110	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 23:22	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 23:22	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 23:22	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 23:22	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 23:22	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.13.14 23:22	U	
Total BTEX		ND		0.000700	mg/L	05.13.14 23:22	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-3-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-003

Date Collected: 05.07.14 11.25

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2000	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	383	20.0	0.560	mg/L	05.12.14 18:29		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0109	0.0200	0.00550	mg/L	05.12.14 22:29	J	1
Chromium	7440-47-3	0.0181	0.0100	0.000811	mg/L	05.12.14 22:29		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 22:29	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.12.14 22:29	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0153	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-3-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-003

Date Collected: 05.07.14 11.25

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 19:45	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 19:45	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 19:45	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 19:45	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 23:39	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 23:39	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 23:39	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 23:39	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 23:39	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.13.14 23:39	U	
Total BTEX		ND		0.000700	mg/L	05.13.14 23:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-96-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-004

Date Collected: 05.07.14 12.30

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	897	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	197	20.0	0.560	mg/L	05.12.14 18:48		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0126	0.0200	0.00550	mg/L	05.12.14 22:49	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.12.14 22:49	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 22:49	U	1
Manganese	7439-96-5	0.104	0.0200	0.00316	mg/L	05.12.14 22:49		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-96-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-004

Date Collected: 05.07.14 12.30

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.08.14 20:11	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.08.14 20:11	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.08.14 20:11	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.08.14 20:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	123	70 - 135	%		
o-Terphenyl	123	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 02:40	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 02:40	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 02:40	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 02:40	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 02:40	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 02:40	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 02:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-97-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-005

Date Collected: 05.07.14 13.35

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2110	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	535	50.0	1.40	mg/L	05.13.14 10:49		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0111	0.0200	0.00550	mg/L	05.12.14 22:55	J	1
Chromium	7440-47-3	0.00938	0.0100	0.000811	mg/L	05.12.14 22:55	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 22:55	U	1
Manganese	7439-96-5	0.452	0.0200	0.00316	mg/L	05.12.14 22:55		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0284	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-97-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-005

Date Collected: 05.07.14 13.35

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 20:37	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 20:37	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 20:37	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 20:37	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 02:57	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 02:57	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 02:57	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 02:57	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 02:57	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 02:57	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 02:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-29-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-006

Date Collected: 05.07.14 14.40

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	6860	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	922	100	2.80	mg/L	05.13.14 11:07		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00591	0.0200	0.00550	mg/L	05.12.14 23:02	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.12.14 23:02	U	1
Iron	7439-89-6	32.2	0.200	0.0283	mg/L	05.12.14 23:02		1
Manganese	7439-96-5	1.91	0.0200	0.00316	mg/L	05.12.14 23:02		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.07.14 19:10	U	5



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-29-050714

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-006

Date Collected: 05.07.14 14.40

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.08.14 21:02	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.08.14 21:02	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.08.14 21:02	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.08.14 21:02	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	107	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 03:13	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 03:13	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 03:13	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 03:13	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 03:13	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 03:13	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 03:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-7A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-007

Date Collected: 05.07.14 15.50

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1580	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	374	20.0	0.560	mg/L	05.12.14 20:56		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0113	0.0200	0.00550	mg/L	05.12.14 23:09	J	1
Chromium	7440-47-3	0.279	0.0100	0.000811	mg/L	05.12.14 23:09		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 23:09	U	1
Manganese	7439-96-5	0.0139	0.0200	0.00316	mg/L	05.12.14 23:09	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.261	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-7A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-007

Date Collected: 05.07.14 15.50

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 21:27	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 21:27	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 21:27	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 21:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	110	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 23:55	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 23:55	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 23:55	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 23:55	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 23:55	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.13.14 23:55	U	
Total BTEX		ND		0.000700	mg/L	05.13.14 23:55	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-13-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-008

Date Collected: 05.07.14 15.40

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2570	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	536	50.0	1.40	mg/L	05.13.14 11:25		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.12.14 23:15	U	1
Chromium	7440-47-3	0.991	0.0100	0.000811	mg/L	05.12.14 23:15		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 23:15	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.12.14 23:15	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.918	0.0500	0.0250	mg/L	05.07.14 19:10		5



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-13-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-008

Date Collected: 05.07.14 15.40

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.08.14 21:55	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.08.14 21:55	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.08.14 21:55	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.08.14 21:55	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	126	70 - 135	%		
o-Terphenyl	119	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 03:30	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 03:30	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 03:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 03:30	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 03:30	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 03:30	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 03:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		

Certificate of Analytical Results

484841

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-13A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-009

Date Collected: 05.07.14 14.45

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	432	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	68.6	20.0	0.560	mg/L	05.12.14 21:52		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0247	0.0200	0.00550	mg/L	05.12.14 23:22		1
Chromium	7440-47-3	0.00218	0.0100	0.000811	mg/L	05.12.14 23:22	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 23:22	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.12.14 23:22	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0220	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-13A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-009

Date Collected: 05.07.14 14.45

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 22:19	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 22:19	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 22:19	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 22:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	110	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 00:12	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 00:12	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 00:12	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 00:12	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 00:12	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 00:12	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 00:12	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-10-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-010

Date Collected: 05.07.14 13.35

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	5380	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	2360	200	5.60	mg/L	05.13.14 11:44		200

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00572	0.0200	0.00550	mg/L	05.12.14 23:28	J	1
Chromium	7440-47-3	0.0340	0.0100	0.000811	mg/L	05.12.14 23:28		1
Iron	7439-89-6	0.0656	0.200	0.0283	mg/L	05.12.14 23:28	J	1
Manganese	7439-96-5	0.00850	0.0200	0.00316	mg/L	05.12.14 23:28	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0336	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-10-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-010

Date Collected: 05.07.14 13.35

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 22:44	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 22:44	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 22:44	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 22:44	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	120	70 - 135	%		
o-Terphenyl	114	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 01:34	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 01:34	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 01:34	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 01:34	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 01:34	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 01:34	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 01:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-40A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-011

Date Collected: 05.07.14 12.50

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	423	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	51.5	20.0	0.560	mg/L	05.12.14 22:28		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0147	0.0200	0.00550	mg/L	05.12.14 23:35	J	1
Chromium	7440-47-3	0.00162	0.0100	0.000811	mg/L	05.12.14 23:35	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 23:35	U	1
Manganese	7439-96-5	0.00796	0.0200	0.00316	mg/L	05.12.14 23:35	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940893

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0104	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-40A-050714

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-011

Date Collected: 05.07.14 12.50

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.09.14 00:04	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.09.14 00:04	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.09.14 00:04	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.09.14 00:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 01:51	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 01:51	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 01:51	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 01:51	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 01:51	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 01:51	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 01:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	80 - 120	%		
4-Bromofluorobenzene	88	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-14-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-012

Date Collected: 05.07.14 11.30

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3520	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1400	100	2.80	mg/L	05.13.14 12:02		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0231	0.0200	0.00550	mg/L	05.12.14 23:42		1
Chromium	7440-47-3	0.0659	0.0100	0.000811	mg/L	05.12.14 23:42		1
Iron	7439-89-6	0.0405	0.200	0.0283	mg/L	05.12.14 23:42	J	1
Manganese	7439-96-5	0.151	0.0200	0.00316	mg/L	05.12.14 23:42		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940893

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.07.14 19:10	U	5



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-14-050714

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-012

Date Collected: 05.07.14 11.30

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.09.14 00:28	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.09.14 00:28	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.09.14 00:28	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.09.14 00:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	85	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 02:07	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 02:07	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 02:07	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 02:07	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 02:07	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 02:07	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 02:07	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-14A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-013

Date Collected: 05.07.14 10.40

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	449	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	48.9	20.0	0.560	mg/L	05.12.14 23:05		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0254	0.0200	0.00550	mg/L	05.12.14 23:48		1
Chromium	7440-47-3	0.00196	0.0100	0.000811	mg/L	05.12.14 23:48	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 23:48	U	1
Manganese	7439-96-5	0.0121	0.0200	0.00316	mg/L	05.12.14 23:48	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940893

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-14A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-013

Date Collected: 05.07.14 10.40

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	05.09.14 00:52	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.09.14 00:52	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.09.14 00:52	U	1
Total TPH	PHC635	ND		0.975	mg/L	05.09.14 00:52	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	119	70 - 135	%		
o-Terphenyl	116	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 02:24	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 02:24	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 02:24	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 02:24	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 02:24	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 02:24	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 02:24	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-014

Date Collected: 05.07.14 00.00

Date Received: 05.07.14 19.00

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 22:50	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 22:50	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 22:50	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 22:50	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 22:50	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.13.14 22:50	U	
Total BTEX		ND		0.000700	mg/L	05.13.14 22:50	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		

Sample Id: **655188-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655188-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.08.14 14:50	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.08.14 14:50	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.08.14 14:50	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.08.14 14:50	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	93	70 - 135	%		

Certificate of Analytical Results

484841

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655280-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655280-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: MKO	% Moist:	Tech: MKO
Seq Number: 940773	Date Prep: 05.12.14 12.00	
Subcontractor: SUB: E871002	Prep seq: 655280	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.12.14 21:31	U	1
Chromium	7440-47-3	0.00199	0.0100	0.000811	mg/L	05.12.14 21:31	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 21:31	U	1
Manganese	7439-96-5	0.00556	0.0200	0.00316	mg/L	05.12.14 21:31	J	1

Sample Id: 655332-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655332-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: DEP	% Moist:	Tech: DEP
Seq Number: 940743	Date Prep: 05.12.14 10.56	
Subcontractor: SUB: E871002	Prep seq: 655332	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.12.14 17:16	U	1

Sample Id: 655357-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655357-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: DEP	% Moist:	Tech: DEP
Seq Number: 940779	Date Prep: 05.13.14 10.00	
Subcontractor: SUB: E871002	Prep seq: 655357	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.13.14 09:35	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655390-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655390-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 20:05	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 20:05	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 20:05	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 20:05	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 20:05	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		

Sample Id: 940523-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 940523-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940523

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.09.14 14:40	U	1

Sample Id: 940684-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 940684-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.12.14 16:56	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **940892-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 940892-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1

Sample Id: **940893-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 940893-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940893

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 484841,

Project ID: 073018

Lab Batch #: 940837

Sample: 655390-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/13/14 20:05		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0261	0.0300	87	80-120
4-Bromofluorobenzene		0.0275	0.0300	92	80-120

Lab Batch #: 940837

Sample: 655390-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/13/14 20:21		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0279	0.0300	93	80-120
4-Bromofluorobenzene		0.0317	0.0300	106	80-120

Lab Batch #: 940837

Sample: 655390-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/13/14 20:38		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0277	0.0300	92	80-120
4-Bromofluorobenzene		0.0318	0.0300	106	80-120

Lab Batch #: 940837

Sample: 484840-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/13/14 20:54		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0278	0.0300	93	80-120
4-Bromofluorobenzene		0.0320	0.0300	107	80-120

Lab Batch #: 940837

Sample: 484840-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/13/14 21:11		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0282	0.0300	94	80-120
4-Bromofluorobenzene		0.0324	0.0300	108	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 484841,

Project ID: 073018

Lab Batch #: 940504

Sample: 655188-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/08/14 14:50		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.2	9.87	103	70-135
o-Terphenyl		4.58	4.94	93	70-135

Lab Batch #: 940504

Sample: 655188-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/08/14 15:16		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.3	9.87	125	70-135
o-Terphenyl		6.10	4.93	124	70-135

Lab Batch #: 940504

Sample: 655188-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/08/14 15:41		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.8	9.87	130	70-135
o-Terphenyl		5.93	4.94	120	70-135

Lab Batch #: 940504

Sample: 484841-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/08/14 18:56		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.4	9.87	105	70-135
o-Terphenyl		5.97	4.94	121	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Work Order #: 484841

Project ID:

073018

Lab Batch #: 940892

Sample: 940892-1-BKS

Matrix: Water

Date Analyzed: 05/07/2014

Date Prepared: 05/07/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0398	100	80-120	

Lab Batch #: 940893

Sample: 940893-1-BKS

Matrix: Water

Date Analyzed: 05/07/2014

Date Prepared: 05/07/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0380	95	80-120	

Lab Batch #: 940743

Sample: 655332-1-BKS

Matrix: Water

Date Analyzed: 05/12/2014

Date Prepared: 05/12/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<0.0280	10.0	10.1	101	80-120	

Lab Batch #: 940779

Sample: 655357-1-BKS

Matrix: Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<0.0280	10.0	10.2	102	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 484841

Project ID: 073018

Analyst: ARM

Date Prepared: 05/13/2014

Date Analyzed: 05/13/2014

Lab Batch ID: 940837

Sample: 655390-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0942	94	0.100	0.0942	94	0	70-125	25	
Toluene	<0.00100	0.100	0.0941	94	0.100	0.0941	94	0	70-125	25	
Ethylbenzene	<0.000800	0.100	0.101	101	0.100	0.100	100	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.207	104	0.200	0.206	103	0	70-131	25	
o-Xylene	<0.000700	0.100	0.103	103	0.100	0.103	103	0	71-133	25	

Analyst: MKO

Date Prepared: 05/12/2014

Date Analyzed: 05/12/2014

Lab Batch ID: 940773

Sample: 655280-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.04	104	1.00	1.00	100	4	80-120	20	
Chromium	0.00199	1.00	1.08	108	1.00	1.03	103	5	80-120	20	
Iron	<0.0283	5.00	5.48	110	5.00	5.21	104	5	80-120	20	
Manganese	0.00556	1.00	1.11	111	1.00	1.05	105	6	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 484841

Project ID: 073018

Analyst: ANS

Date Prepared: 05/09/2014

Date Analyzed: 05/09/2014

Lab Batch ID: 940523

Sample: 940523-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1010	101	1000	1030	103	2	80-120	10	

Analyst: ANS

Date Prepared: 05/12/2014

Date Analyzed: 05/12/2014

Lab Batch ID: 940684

Sample: 940684-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	920	92	1000	906	91	2	80-120	10	

Analyst: ARM

Date Prepared: 05/08/2014

Date Analyzed: 05/08/2014

Lab Batch ID: 940504

Sample: 655188-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	102	103	98.7	107	108	5	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	109	110	98.7	104	105	5	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 484841

Lab Batch #: 940504

Date Analyzed: 05/08/2014

QC- Sample ID: 484841-001 S

Reporting Units: mg/L

Date Prepared: 05/08/2014

Batch #: 1

Project ID: 073018

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	85.0	86	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	91.4	93	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 484841

Project ID: 073018

Lab Batch ID: 940837

QC- Sample ID: 484840-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0961	96	0.100	0.0979	98	2	70-125	25	
Toluene	<0.00100	0.100	0.0962	96	0.100	0.0981	98	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.103	103	0.100	0.105	105	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.212	106	0.200	0.215	108	1	70-131	25	
o-Xylene	<0.000700	0.100	0.106	106	0.100	0.108	108	2	71-133	25	

Lab Batch ID: 940892

QC- Sample ID: 484841-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/07/2014

Date Prepared: 05/07/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	<0.00500	0.200	0.202	101	0.200	0.204	102	1	80-120	20	

Lab Batch ID: 940893

QC- Sample ID: 484841-011 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/07/2014

Date Prepared: 05/07/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.0104	0.200	0.210	100	0.200	0.206	98	2	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 484841

Project ID: 073018

Lab Batch ID: 940773

QC- Sample ID: 484841-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/12/2014

Date Prepared: 05/12/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.0210	1.00	1.06	104	1.00	1.07	105	1	75-125	20	
Chromium	0.00239	1.00	1.05	105	1.00	1.05	105	0	75-125	20	
Iron	<0.0283	5.00	5.00	100	5.00	4.98	100	0	75-125	20	
Manganese	0.00585	1.00	1.06	105	1.00	1.08	107	2	75-125	20	

Lab Batch ID: 940743

QC- Sample ID: 484841-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/12/2014

Date Prepared: 05/12/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	66.3	200	268	101	200	267	100	0	80-120	20	

Lab Batch ID: 940779

QC- Sample ID: 484841-002 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	924	1000	1920	100	1000	1920	100	0	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 484841

Project ID: 073018

Lab Batch ID: 940779

QC- Sample ID: 485180-003 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	6.29	10.0	16.3	100	10.0	16.3	100	0	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 484841

Lab Batch #: 940523

Project ID: 073018

Date Analyzed: 05/09/2014 14:40

Date Prepared: 05/09/2014

Analyst: ANS

QC- Sample ID: 484804-008 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1510	1380	9	10	

Lab Batch #: 940684

Date Analyzed: 05/12/2014 16:56

Date Prepared: 05/12/2014

Analyst: ANS

QC- Sample ID: 484841-002 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	4000	3960	1	10	

Lab Batch #: 940684

Date Analyzed: 05/12/2014 16:56

Date Prepared: 05/12/2014

Analyst: ANS

QC- Sample ID: 484841-012 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3520	3620	3	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



☐ 4143 Greenbriar Drive, Stafford, TX 77477 **281-240-4200**
☐ 5332, Blackberry Drive, San Antonio, TX 78238 **210-509-3334**

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 **214-902-0300**
☐ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**

Serial #: **329753** Page **1** of **2**

Company-City CEA - Midland		Phone 432-686-0086		Lab Only: 484841																	
Project Name-Location N. Faria, NM		☐ Previously done at XENCO		Project ID 073018		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.															
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other		Proj. Manager (PM) Mike Wisniewski																			
E-mail Results to ☐ PM and ☒ Mwisniewski@crowco.com		Fax No: 432-686-0086																			
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.		Bill to:																			
Quote/Pricing:		P.O. No:		☐ Call for P.O.																	
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP																					
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:																					
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)																					
Sampler Name Justin Nixon		Signature <i>[Signature]</i>																			
Sample ID	Sampling Date	Time	Depth ft' in' m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List	VOA: PP	PAHs	TX-1005	SVOCs	OC Pesticides	Metals	SPLP - TCLP	EDB / DBCP	Remarks	
1 Dup-2-050714	5-7-14	2					6														
2 mw-8-050714		1005																			
3 mw-3-050714		1125																			
4 mw-9b-050714		1230																			
5 mw-97-050714		1335																			
6 Iw-29-050714		1440																			
7 mw-7A-050714		1550																			
8 mw-13-050714		1540																			
9 mw-13A-050714		1445																			
10 mw-10-050714		1335																			
Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time		Total Containers per COC:		Cooler Temp: °C											
1) <i>[Signature]</i>		5-7-14		2) <i>[Signature]</i>		5-7-14 17:40		Otherwise agreed on writing. Reports are the Intellectual Property of XENCO													
3) <i>[Signature]</i>		5-7-14 19:00		4) <i>[Signature]</i>		5-7-14 19:00		until paid. Samples will be held 30 days after final report is e-mailed unless													
5)				6)				hereby requested. Rush Charges and Collection Fees are pre-approved if needed.													

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____
Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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www.xenco.com

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

XENCO
Laboratories

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 **214-902-0300**
☒ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**

Serial #: 329752 Page 2 of 2

[illegible]

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O) _____
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/07/2014 07:00:00 PM

Work Order #: 484841

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/08/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/08/2014

Analytical Report 484976

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

16-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



16-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **484976**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 484976. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 484976 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-11-050814	W	05-08-14 09:55		484976-001
MW-11A-050814	W	05-08-14 10:50		484976-002
IW-001-050814	W	05-08-14 11:50		484976-003
MW-87A-050814	W	05-08-14 13:30		484976-004
MW-8A-050814	W	05-08-14 14:55		484976-005
RW-004A-050814	W	05-08-14 16:05		484976-006
DUP-3-050814	W	05-08-14 00:00		484976-007
MW-24A-050814	W	05-08-14 15:30		484976-008
MW-70-050814	W	05-08-14 00:00		484976-009
MW-70A-050814	W	05-08-14 00:00		484976-010
MW-23-050814	W	05-08-14 11:55		484976-011
MW-23A-050814	W	05-08-14 10:50		484976-012
MW-24-050814	W	05-08-14 16:20		484976-013
TRIP BLANK	W	05-08-14 00:00		484976-014



CASE NARRATIVE



Client Name: Conestoga Rovers & Associates

Project Name: N. Eunice/Eunice

Project ID: 073018
Work Order Number(s): 484976

Report Date: 16-MAY-14
Date Received: 05/08/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-940902 TPH By SW8015 Mod

C12-C28 Diesel Range Hydrocarbons, C6-C12 Gasoline Range Hydrocarbons recovered below QC limits in the Matrix Spike. Samples affected are: 484976-002, -006, -012, -004, -009, -007, -010, -003, -005, -011, -013, -001, -008.

The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons, C6-C12 Gasoline Range Hydrocarbons is within laboratory Control Limits

Certificate of Analytical Results

484976

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-11-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-001

Date Collected: 05.08.14 09.55

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 15.12

Prep seq: 655339

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1190	100	2.80	mg/L	05.14.14 15:12		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3700	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00881	0.0200	0.00550	mg/L	05.13.14 20:33	J	1
Chromium	7440-47-3	0.00830	0.0100	0.000811	mg/L	05.13.14 20:33	J	1
Iron	7439-89-6	2.59	0.200	0.0283	mg/L	05.13.14 20:33		1
Manganese	7439-96-5	4.30	0.0200	0.00316	mg/L	05.13.14 20:33		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940951

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.08.14 19:15	U	5



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-11-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-001

Date Collected: 05.08.14 09:55

Date Received: 05.08.14 19:10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11:00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.14.14 18:06	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.14.14 18:06	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.14.14 18:06	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.14.14 18:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	128	70 - 135	%		
o-Terphenyl	128	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17:00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.15.14 01:25	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.15.14 01:25	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.15.14 01:25	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.15.14 01:25	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.15.14 01:25	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.15.14 01:25	U	
Total BTEX		ND		0.000700	mg/L	05.15.14 01:25	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		

Certificate of Analytical Results

484976

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-11A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-002

Date Collected: 05.08.14 10.50

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 15.58

Prep seq: 655339

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1260	100	2.80	mg/L	05.14.14 15:58		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3090	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00886	0.0200	0.00550	mg/L	05.13.14 20:40	J	1
Chromium	7440-47-3	0.114	0.0100	0.000811	mg/L	05.13.14 20:40		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.13.14 20:40	U	1
Manganese	7439-96-5	2.93	0.0200	0.00316	mg/L	05.13.14 20:40		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940951

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.08.14 19:15	U	5

Certificate of Analytical Results

484976

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-11A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-002

Date Collected: 05.08.14 10.50

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.14.14 18:30	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.14.14 18:30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.14.14 18:30	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.14.14 18:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.15.14 01:41	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.15.14 01:41	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.15.14 01:41	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.15.14 01:41	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.15.14 01:41	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.15.14 01:41	U	
Total BTEX		ND		0.000700	mg/L	05.15.14 01:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		

Certificate of Analytical Results

484976

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-001-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-003

Date Collected: 05.08.14 11.50

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 16.20

Prep seq: 655339

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1020	100	2.80	mg/L	05.14.14 16:20		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	5250	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0567	0.0400	0.0110	mg/L	05.13.14 20:46		2
Chromium	7440-47-3	0.00854	0.0200	0.00162	mg/L	05.13.14 20:46	J	2
Iron	7439-89-6	3.28	0.400	0.0566	mg/L	05.13.14 20:46		2
Manganese	7439-96-5	1.89	0.0400	0.00632	mg/L	05.13.14 20:46		2

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940951

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.08.14 19:15	U	5



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-001-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-003

Date Collected: 05.08.14 11:50

Date Received: 05.08.14 19:10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11:00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.14.14 18:54	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.14.14 18:54	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.14.14 18:54	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.14.14 18:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	106	70 - 135	%		
o-Terphenyl	114	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17:00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.15.14 02:31	U	1
Toluene	108-88-3	0.00116	0.00200	0.00100	mg/L	05.15.14 02:31	J	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.15.14 02:31	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.15.14 02:31	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.15.14 02:31	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.15.14 02:31	U	
Total BTEX		0.00116		0.000700	mg/L	05.15.14 02:31		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		

Certificate of Analytical Results

484976

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-87A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-004

Date Collected: 05.08.14 13.30

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 16.43

Prep seq: 655339

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1070	100	2.80	mg/L	05.14.14 16:43		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4290	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.13.14 20:53	U	1
Chromium	7440-47-3	0.0351	0.0100	0.000811	mg/L	05.13.14 20:53		1
Iron	7439-89-6	0.202	0.200	0.0283	mg/L	05.13.14 20:53		1
Manganese	7439-96-5	0.197	0.0200	0.00316	mg/L	05.13.14 20:53		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940951

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.08.14 19:15	U	5



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-87A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-004

Date Collected: 05.08.14 13.30

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.14.14 19:18	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.14.14 19:18	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.14.14 19:18	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.14.14 19:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.15.14 01:58	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.15.14 01:58	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.15.14 01:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.15.14 01:58	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.15.14 01:58	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.15.14 01:58	U	
Total BTEX		ND		0.000700	mg/L	05.15.14 01:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	95	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-8A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-005

Date Collected: 05.08.14 14.55

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 17.06

Prep seq: 655339

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	808	100	2.80	mg/L	05.14.14 17:06		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4060	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0686	0.0400	0.0110	mg/L	05.13.14 20:59		2
Chromium	7440-47-3	0.0851	0.0200	0.00162	mg/L	05.13.14 20:59		2
Iron	7439-89-6	2.53	0.400	0.0566	mg/L	05.13.14 20:59		2
Manganese	7439-96-5	0.0321	0.0400	0.00632	mg/L	05.13.14 20:59	J	2

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940951

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.08.14 19:15	U	5



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-8A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-005

Date Collected: 05.08.14 14.55

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.14.14 19:42	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.14.14 19:42	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.14.14 19:42	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.14.14 19:42	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	107	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.15.14 02:15	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.15.14 02:15	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.15.14 02:15	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.15.14 02:15	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.15.14 02:15	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.15.14 02:15	U	
Total BTEX		ND		0.000700	mg/L	05.15.14 02:15	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		

Certificate of Analytical Results

484976

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **RW-004A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-006

Date Collected: 05.08.14 16.05

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 17.28

Prep seq: 655339

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	541	100	2.80	mg/L	05.14.14 17:28		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4180	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0146	0.0400	0.0110	mg/L	05.13.14 21:06	J	2
Chromium	7440-47-3	0.0245	0.0200	0.00162	mg/L	05.13.14 21:06		2
Iron	7439-89-6	8.67	0.400	0.0566	mg/L	05.13.14 21:06		2
Manganese	7439-96-5	0.273	0.0400	0.00632	mg/L	05.13.14 21:06		2

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940951

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.08.14 19:15	U	5



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **RW-004A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-006

Date Collected: 05.08.14 16.05

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.14.14 20:53	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.14.14 20:53	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.14.14 20:53	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.14.14 20:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	124	70 - 135	%		
o-Terphenyl	126	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.15.14 02:47	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.15.14 02:47	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.15.14 02:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.15.14 02:47	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.15.14 02:47	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.15.14 02:47	U	
Total BTEX		ND		0.000700	mg/L	05.15.14 02:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	108	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-3-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-007

Date Collected: 05.08.14 00.00

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 17.51

Prep seq: 655339

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	777	100	2.80	mg/L	05.14.14 17:51		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2510	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0137	0.0200	0.00550	mg/L	05.13.14 21:12	J	1
Chromium	7440-47-3	0.354	0.0100	0.000811	mg/L	05.13.14 21:12		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.13.14 21:12	U	1
Manganese	7439-96-5	0.00381	0.0200	0.00316	mg/L	05.13.14 21:12	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940951

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.338	0.0100	0.00500	mg/L	05.08.14 19:15		1



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: DUP-3-050814

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-007

Date Collected: 05.08.14 00.00

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.14.14 21:17	UX	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.14.14 21:17	UX	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.14.14 21:17	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.14.14 21:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	121	70 - 135	%		
o-Terphenyl	130	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 22:43	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 22:43	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 22:43	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 22:43	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 22:43	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 22:43	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 22:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		

Certificate of Analytical Results

484976

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-24A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-008

Date Collected: 05.08.14 15.30

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940870

Date Prep: 05.13.14 19.33

Prep seq: 655338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	804	100	2.80	mg/L	05.13.14 19:33		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2480	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0135	0.0200	0.00550	mg/L	05.13.14 21:19	J	1
Chromium	7440-47-3	0.362	0.0100	0.000811	mg/L	05.13.14 21:19		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.13.14 21:19	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.13.14 21:19	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940951

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.337	0.0100	0.00500	mg/L	05.08.14 19:15		1



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-24A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-008

Date Collected: 05.08.14 15.30

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.14.14 22:10	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.14.14 22:10	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.14.14 22:10	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.14.14 22:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	125	70 - 135	%		
o-Terphenyl	127	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 22:58	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 22:58	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 22:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 22:58	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 22:58	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 22:58	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 22:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		

Certificate of Analytical Results

484976

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-70-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-009

Date Collected: 05.08.14 00.00

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940870

Date Prep: 05.13.14 20.41

Prep seq: 655338

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	172	10.0	0.280	mg/L	05.13.14 20:41		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	737	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0183	0.0200	0.00550	mg/L	05.13.14 21:25	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.13.14 21:25	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.13.14 21:25	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.13.14 21:25	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940951

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.08.14 19:15	U	1



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-70-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-009

Date Collected: 05.08.14 00.00

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.14.14 22:34	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.14.14 22:34	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.14.14 22:34	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.14.14 22:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	106	70 - 135	%		
o-Terphenyl	114	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 23:15	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 23:15	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 23:15	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 23:15	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 23:15	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 23:15	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 23:15	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		

Certificate of Analytical Results

484976

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-70A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-010

Date Collected: 05.08.14 00.00

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940870

Date Prep: 05.13.14 21.04

Prep seq: 655338

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	52.9	10.0	0.280	mg/L	05.13.14 21:04		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	462	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0153	0.0200	0.00550	mg/L	05.13.14 21:45	J	1
Chromium	7440-47-3	0.00293	0.0100	0.000811	mg/L	05.13.14 21:45	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.13.14 21:45	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.13.14 21:45	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940952

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.08.14 19:15	U	1



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-70A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-010

Date Collected: 05.08.14 00.00

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.14.14 23:01	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.14.14 23:01	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.14.14 23:01	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.14.14 23:01	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	122	70 - 135	%		
o-Terphenyl	124	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 23:31	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 23:31	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 23:31	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 23:31	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 23:31	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 23:31	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 23:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		

Certificate of Analytical Results

484976

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-23-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-011

Date Collected: 05.08.14 11.55

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940870

Date Prep: 05.13.14 21.27

Prep seq: 655338

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	812	100	2.80	mg/L	05.13.14 21:27		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3440	5.00	5.00	mg/L	05.12.14 10:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0165	0.0200	0.00550	mg/L	05.13.14 21:51	J	1
Chromium	7440-47-3	1.60	0.0100	0.000811	mg/L	05.13.14 21:51		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.13.14 21:51	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.13.14 21:51	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940952

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	1.55	0.0500	0.0250	mg/L	05.08.14 19:15		5



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-23-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-011

Date Collected: 05.08.14 11.55

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.14.14 23:26	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.14.14 23:26	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.14.14 23:26	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.14.14 23:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 23:48	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 23:48	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 23:48	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 23:48	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 23:48	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 23:48	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 23:48	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-23A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-012

Date Collected: 05.08.14 10.50

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940870

Date Prep: 05.13.14 22.12

Prep seq: 655338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	54.2	10.0	0.280	mg/L	05.13.14 22:12		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940881

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	486	5.00	5.00	mg/L	05.13.14 11:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0175	0.0200	0.00550	mg/L	05.13.14 21:58	J	1
Chromium	7440-47-3	0.00352	0.0100	0.000811	mg/L	05.13.14 21:58	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.13.14 21:58	U	1
Manganese	7439-96-5	0.00892	0.0200	0.00316	mg/L	05.13.14 21:58	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940952

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.08.14 19:15	U	1



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-23A-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-012

Date Collected: 05.08.14 10.50

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.14.14 23:53	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.14.14 23:53	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.14.14 23:53	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.14.14 23:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	99	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.15.14 00:04	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.15.14 00:04	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.15.14 00:04	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.15.14 00:04	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.15.14 00:04	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.15.14 00:04	U	
Total BTEX		ND		0.000700	mg/L	05.15.14 00:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-24-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-013

Date Collected: 05.08.14 16.20

Date Received: 05.08.14 19.10

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940870

Date Prep: 05.13.14 22.35

Prep seq: 655338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	736	100	2.80	mg/L	05.13.14 22:35		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940881

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2480	5.00	5.00	mg/L	05.13.14 11:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00859	0.0200	0.00550	mg/L	05.13.14 22:05	J	1
Chromium	7440-47-3	0.0843	0.0100	0.000811	mg/L	05.13.14 22:05		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.13.14 22:05	U	1
Manganese	7439-96-5	0.00454	0.0200	0.00316	mg/L	05.13.14 22:05	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940952

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0842	0.0100	0.00500	mg/L	05.08.14 19:15		1



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-24-050814**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-013

Date Collected: 05.08.14 16.20

Date Received: 05.08.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.15.14 00:19	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.15.14 00:19	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.15.14 00:19	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.15.14 00:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.15.14 01:10	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.15.14 01:10	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.15.14 01:10	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.15.14 01:10	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.15.14 01:10	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.15.14 01:10	U	
Total BTEX		ND		0.000700	mg/L	05.15.14 01:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 484976-014

Date Collected: 05.08.14 00.00

Date Received: 05.08.14 19.10

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 22:27	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 22:27	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 22:27	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 22:27	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 22:27	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 22:27	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 22:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		

Sample Id: **655338-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655338-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940870

Date Prep: 05.13.14 14.12

Prep seq: 655338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.13.14 14:12	U	1

Sample Id: **655339-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655339-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 18.59

Prep seq: 655339

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.14.14 18:59	U	1



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655343-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655343-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940869

Date Prep: 05.13.14 09.30

Subcontractor: SUB: E871002

Prep seq: 655343

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.13.14 19:08	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.13.14 19:08	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.13.14 19:08	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.13.14 19:08	U	1

Sample Id: 655443-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655443-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940902

Date Prep: 05.14.14 11.00

Prep seq: 655443

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.14.14 13:57	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.14.14 13:57	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.14.14 13:57	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	130	70 - 135	%		
o-Terphenyl	127	70 - 135	%		



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655474-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655474-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940987

Date Prep: 05.14.14 17.00

Prep seq: 655474

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 19:58	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 19:58	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 19:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 19:58	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 19:58	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	81	80 - 120	%		
4-Bromofluorobenzene	81	80 - 120	%		

Sample Id: 940806-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 940806-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940806

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.12.14 10:00	U	1

Sample Id: 940881-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 940881-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 940881

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.13.14 11:00	U	1



Certificate of Analytical Results

484976



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **940951-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 940951-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940951

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.08.14 19:15	U	1

Sample Id: **940952-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 940952-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940952

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.08.14 19:15	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 484976,

Project ID: 073018

Lab Batch #: 940987

Sample: 655474-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/14/14 19:58		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0242	0.0300	81	80-120
4-Bromofluorobenzene		0.0243	0.0300	81	80-120

Lab Batch #: 940987

Sample: 655474-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/14/14 20:14		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0275	0.0300	92	80-120
4-Bromofluorobenzene		0.0321	0.0300	107	80-120

Lab Batch #: 940987

Sample: 655474-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/14/14 20:31		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0279	0.0300	93	80-120
4-Bromofluorobenzene		0.0327	0.0300	109	80-120

Lab Batch #: 940987

Sample: 484915-003 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/14/14 20:47		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0310	0.0300	103	80-120
4-Bromofluorobenzene		0.0334	0.0300	111	80-120

Lab Batch #: 940987

Sample: 484915-003 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/14/14 21:04		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0306	0.0300	102	80-120
4-Bromofluorobenzene		0.0340	0.0300	113	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 484976,

Project ID: 073018

Lab Batch #: 940902

Sample: 655443-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/14/14 13:57		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.8	9.88	130	70-135
o-Terphenyl		6.28	4.94	127	70-135

Lab Batch #: 940902

Sample: 655443-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/14/14 14:24		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.6	9.87	118	70-135
o-Terphenyl		4.96	4.94	100	70-135

Lab Batch #: 940902

Sample: 655443-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/14/14 14:48		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.4	9.87	116	70-135
o-Terphenyl		4.84	4.94	98	70-135

Lab Batch #: 940902

Sample: 484976-007 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/14/14 21:44		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.3	9.87	104	70-135
o-Terphenyl		5.49	4.93	111	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Work Order #: 484976

Project ID:

073018

Lab Batch #: 940951

Sample: 940951-1-BKS

Matrix: Water

Date Analyzed: 05/08/2014

Date Prepared: 05/08/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0397	99	80-120	

Lab Batch #: 940952

Sample: 940952-1-BKS

Matrix: Water

Date Analyzed: 05/08/2014

Date Prepared: 05/08/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0391	98	80-120	

Lab Batch #: 940806

Sample: 940806-1-BKS

Matrix: Water

Date Analyzed: 05/12/2014

Date Prepared: 05/12/2014

Analyst: RKO

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Total dissolved solids	<5.00	1000	1050	105	80-120	

Lab Batch #: 940881

Sample: 940881-1-BKS

Matrix: Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: RKO

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Total dissolved solids	<5.00	1000	947	95	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 484976

Project ID: 073018

Analyst: ARM

Date Prepared: 05/14/2014

Date Analyzed: 05/14/2014

Lab Batch ID: 940987

Sample: 655474-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0940	94	0.100	0.0979	98	4	70-125	25	
Toluene	<0.00100	0.100	0.0945	95	0.100	0.0986	99	4	70-125	25	
Ethylbenzene	<0.000800	0.100	0.101	101	0.100	0.106	106	5	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.208	104	0.200	0.217	109	4	70-131	25	
o-Xylene	<0.000700	0.100	0.103	103	0.100	0.108	108	5	71-133	25	

Analyst: MKO

Date Prepared: 05/13/2014

Date Analyzed: 05/13/2014

Lab Batch ID: 940869

Sample: 655343-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.982	98	1.00	0.962	96	2	80-120	20	
Chromium	<0.000811	1.00	1.02	102	1.00	1.02	102	0	80-120	20	
Iron	<0.0283	5.00	4.95	99	5.00	4.92	98	1	80-120	20	
Manganese	<0.00316	1.00	0.976	98	1.00	0.973	97	0	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 484976

Project ID: 073018

Analyst: RKO

Date Prepared: 05/13/2014

Date Analyzed: 05/13/2014

Lab Batch ID: 940870

Sample: 655338-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	25.1	100	25.0	24.8	99	1	80-120	20	

Analyst: RKO

Date Prepared: 05/14/2014

Date Analyzed: 05/14/2014

Lab Batch ID: 941041

Sample: 655339-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	24.9	100	25.0	24.2	97	3	80-120	20	

Analyst: ARM

Date Prepared: 05/14/2014

Date Analyzed: 05/14/2014

Lab Batch ID: 940902

Sample: 655443-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	93.8	95	98.7	92.4	94	2	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	102	103	98.7	96.9	98	5	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Work Order #: 484976

Lab Batch #: 940870

Date Analyzed: 05/13/2014

QC- Sample ID: 484976-011 S

Reporting Units: mg/L

Date Prepared: 05/13/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	812	2500	3410	104	80-120	

Lab Batch #: 941041

Date Analyzed: 05/14/2014

QC- Sample ID: 484976-001 S

Reporting Units: mg/L

Date Prepared: 05/14/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	1190	2500	4090	116	80-120	

Lab Batch #: 941041

Date Analyzed: 05/14/2014

QC- Sample ID: 485208-003 S

Reporting Units: mg/L

Date Prepared: 05/14/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	106	250	360	102	80-120	

Lab Batch #: 940902

Date Analyzed: 05/14/2014

QC- Sample ID: 484976-007 S

Reporting Units: mg/L

Date Prepared: 05/14/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	<0.975	0	70-135	X
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	<0.975	0	70-135	X

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 484976

Project ID: 073018

Lab Batch ID: 940987

QC- Sample ID: 484915-003 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/14/2014

Date Prepared: 05/14/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	0.185	0.100	0.243	58	0.100	0.246	61	1	70-125	25	X
Toluene	0.00203	0.100	0.101	99	0.100	0.101	99	0	70-125	25	
Ethylbenzene	0.0173	0.100	0.117	100	0.100	0.118	101	1	71-129	25	
m,p-Xylenes	0.00458	0.200	0.217	106	0.200	0.218	107	0	70-131	25	
o-Xylene	<0.000700	0.100	0.106	106	0.100	0.106	106	0	71-133	25	

Lab Batch ID: 940951

QC- Sample ID: 484875-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/08/2014

Date Prepared: 05/08/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	<0.00500	0.200	0.205	103	0.200	0.207	104	1	80-120	20	

Lab Batch ID: 940952

QC- Sample ID: 484976-010 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/08/2014

Date Prepared: 05/08/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	<0.00500	0.200	0.206	103	0.200	0.209	105	1	80-120	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 484976

Project ID: 073018

Lab Batch ID: 940869

QC- Sample ID: 484693-001 S

Batch #: 1 Matrix: Solid

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.0275	5.00	5.05	101	5.00	5.10	102	1	75-125	20	
Chromium	0.00595	5.00	5.09	102	5.00	5.03	100	1	75-125	20	
Iron	<0.141	25.0	21.6	86	25.0	21.6	86	0	75-125	20	
Manganese	2.09	5.00	7.19	102	5.00	7.01	98	3	75-125	20	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference RPD = $200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery [G] = $100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 484976

Lab Batch #: 940806

Project ID: 073018

Date Analyzed: 05/12/2014 10:00

Date Prepared: 05/12/2014

Analyst: RKO

QC- Sample ID: 484976-011 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3440	3440	0	10	

Lab Batch #: 940806

Date Analyzed: 05/12/2014 10:00

Date Prepared: 05/12/2014

Analyst: RKO

QC- Sample ID: 485069-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	240000	237000	1	10	

Lab Batch #: 940881

Date Analyzed: 05/13/2014 11:00

Date Prepared: 05/13/2014

Analyst: RKO

QC- Sample ID: 484987-002 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	100	120	18	10	F

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

XENCO
Laboratories

Serial #: 329749 Page 2 of 2

[illegible]

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O) _____
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD



☐ 4143 Greenbriar Drive, Stafford, TX 77477 **281-240-4200**
☐ 5332, Blackberry Drive, San Antonio, TX 78238 **210-509-3334**

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 **214-902-0300**
☐ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**

Serial #: **329748** Page **1** of **2**

Company-City CRA- Midland	Phone 432-686-0086	Lab Only: 484976
-------------------------------------	------------------------------	----------------------------

Project Name-Location N. Eunie, NM	☐ Previously done at XENCO	Project ID 073018
--	---	-----------------------------

Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other	Proj. Manager (PM) Mike Wisniewski
---	--

E-mail Results to ☒ PM and	Fax No: 432-686-0086
--	--------------------------------

Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O. Bill to:	
---	--

Quote/Pricing:	P.O. No:	☐ Call for P.O.
----------------	----------	--

Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP

QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:

Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)

Sampler Name Justin Nixon	Signature [Signature]
----------------------------------	------------------------------

	Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container S	Container T	Preservative	VOA: Full-List	VOA: PP	PAHs	SIM	TX-1005	D	SVOCs: Full	OC Pesticide	Metals: RCR	SPLP - TCLP	EDB / DBCP	BTEX						TATASAP	Addn: PAH a	Hold Sample	Sample Clean		Addn:		
1	mw-11-050814	5-8-14	955		W		X	6																X	X	X	X	X	X							1
2	mw-11A-050814		1050																																2	
3	Tw-001-050814		1150																																3	
4	mw87A-050814		1330																																4	
5	mw8A-050814		1455																																5	
6	Rm004A-050814		1605																																6	
7	Dup-3-050814		-																																	7
8	mw24A-050814		1530																																	8
9	mw-70-050814																																			9
10	mw-70A-050814																																			10

Relinquished by (Initials and Sign)	Date & Time	Relinquished to (Initials and Sign)	Date & Time	Total Containers per COC:	Cooler Temp: 3 °C
1) [Signature]	5-8-14 1650	2) Colin Martinez	5-8-14 16:57		
3) Colin Martinez	5-8-14 19:10	4) Minervickios	5-8-14 19:10		
5)		6)			

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)
 Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/08/2014 07:10:00 PM

Work Order #: 484976

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ ,HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/09/2014

Checklist reviewed by: _____

Date: _____

Analytical Report 484841

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

19-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



19-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **484841**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 484841. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 484841 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Alejandro Montoya

Odessa Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
DUP-2-050714	W	05-07-14 00:00		484841-001
MW-8-050714	W	05-07-14 10:05		484841-002
MW-3-050714	W	05-07-14 11:25		484841-003
MW-96-050714	W	05-07-14 12:30		484841-004
MW-97-050714	W	05-07-14 13:35		484841-005
IW-29-050714	W	05-07-14 14:40		484841-006
MW-7A-050714	W	05-07-14 15:50		484841-007
MW-13-050714	W	05-07-14 15:40		484841-008
MW-13A-050714	W	05-07-14 14:45		484841-009
MW-10-050714	W	05-07-14 13:35		484841-010
MW-40A-050714	W	05-07-14 12:50		484841-011
MW-14-050714	W	05-07-14 11:30		484841-012
MW-14A-050714	W	05-07-14 10:40		484841-013
TRIP BLANK	W	05-07-14 00:00		484841-014

Client Name: Conestoga Rovers & Associates**Project Name: N. Eunice/Eunice**Project ID: 073018
Work Order Number(s): 484841Report Date: 19-MAY-14
Date Received: 05/07/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-940773 Dissolved Metals per ICP by SW846 6010B

Chromium, Manganese detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples affected are: 484841-005, -006, -008, -009, -002, -001, -004, -007, -012, -003, -011, -010, -013.

Certificate of Analytical Results

484841

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-2-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-001

Date Collected: 05.07.14 00.00

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940523

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	575	5.00	5.00	mg/L	05.09.14 14:40		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	66.3	20.0	0.560	mg/L	05.12.14 17:52		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0210	0.0200	0.00550	mg/L	05.12.14 21:50		1
Chromium	7440-47-3	0.00239	0.0100	0.000811	mg/L	05.12.14 21:50	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 21:50	U	1
Manganese	7439-96-5	0.00585	0.0200	0.00316	mg/L	05.12.14 21:50	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: DUP-2-050714

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-001

Date Collected: 05.07.14 00.00

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 18:32	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 18:32	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 18:32	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 18:32	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	97	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 23:06	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 23:06	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 23:06	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 23:06	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 23:06	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.13.14 23:06	U	
Total BTEX		ND		0.000700	mg/L	05.13.14 23:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		

Certificate of Analytical Results

484841

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-8-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-002

Date Collected: 05.07.14 10.05

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4000	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	924	100	2.80	mg/L	05.13.14 10:30		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.12.14 22:23	U	1
Chromium	7440-47-3	0.00225	0.0100	0.000811	mg/L	05.12.14 22:23	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 22:23	U	1
Manganese	7439-96-5	2.15	0.0200	0.00316	mg/L	05.12.14 22:23		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.07.14 19:10	U	5



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-8-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-002

Date Collected: 05.07.14 10.05

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.08.14 19:21	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	1.01	1.48	0.976	mg/L	05.08.14 19:21	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.08.14 19:21	U	1
Total TPH	PHCG635	1.01		0.976	mg/L	05.08.14 19:21	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	110	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 23:22	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 23:22	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 23:22	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 23:22	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 23:22	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.13.14 23:22	U	
Total BTEX		ND		0.000700	mg/L	05.13.14 23:22	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-3-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-003

Date Collected: 05.07.14 11.25

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2000	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	383	20.0	0.560	mg/L	05.12.14 18:29		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0109	0.0200	0.00550	mg/L	05.12.14 22:29	J	1
Chromium	7440-47-3	0.0181	0.0100	0.000811	mg/L	05.12.14 22:29		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 22:29	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.12.14 22:29	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0153	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-3-050714

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-003

Date Collected: 05.07.14 11.25

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 19:45	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 19:45	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 19:45	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 19:45	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 23:39	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 23:39	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 23:39	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 23:39	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 23:39	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.13.14 23:39	U	
Total BTEX		ND		0.000700	mg/L	05.13.14 23:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-96-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-004

Date Collected: 05.07.14 12.30

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	897	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	197	20.0	0.560	mg/L	05.12.14 18:48		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0126	0.0200	0.00550	mg/L	05.12.14 22:49	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.12.14 22:49	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 22:49	U	1
Manganese	7439-96-5	0.104	0.0200	0.00316	mg/L	05.12.14 22:49		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-96-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-004

Date Collected: 05.07.14 12.30

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.08.14 20:11	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.08.14 20:11	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.08.14 20:11	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.08.14 20:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	123	70 - 135	%		
o-Terphenyl	123	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 02:40	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 02:40	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 02:40	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 02:40	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 02:40	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 02:40	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 02:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-97-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-005

Date Collected: 05.07.14 13.35

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2110	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	535	50.0	1.40	mg/L	05.13.14 10:49		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0111	0.0200	0.00550	mg/L	05.12.14 22:55	J	1
Chromium	7440-47-3	0.00938	0.0100	0.000811	mg/L	05.12.14 22:55	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 22:55	U	1
Manganese	7439-96-5	0.452	0.0200	0.00316	mg/L	05.12.14 22:55		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0284	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-97-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-005

Date Collected: 05.07.14 13.35

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 20:37	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 20:37	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 20:37	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 20:37	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 02:57	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 02:57	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 02:57	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 02:57	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 02:57	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 02:57	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 02:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-29-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-006

Date Collected: 05.07.14 14.40

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	6860	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	922	100	2.80	mg/L	05.13.14 11:07		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00591	0.0200	0.00550	mg/L	05.12.14 23:02	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.12.14 23:02	U	1
Iron	7439-89-6	32.2	0.200	0.0283	mg/L	05.12.14 23:02		1
Manganese	7439-96-5	1.91	0.0200	0.00316	mg/L	05.12.14 23:02		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.07.14 19:10	U	5



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-29-050714

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-006

Date Collected: 05.07.14 14.40

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.08.14 21:02	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.08.14 21:02	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.08.14 21:02	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.08.14 21:02	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	107	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 03:13	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 03:13	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 03:13	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 03:13	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 03:13	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 03:13	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 03:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-7A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-007

Date Collected: 05.07.14 15.50

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1580	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	374	20.0	0.560	mg/L	05.12.14 20:56		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0113	0.0200	0.00550	mg/L	05.12.14 23:09	J	1
Chromium	7440-47-3	0.279	0.0100	0.000811	mg/L	05.12.14 23:09		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 23:09	U	1
Manganese	7439-96-5	0.0139	0.0200	0.00316	mg/L	05.12.14 23:09	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.261	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-7A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-007

Date Collected: 05.07.14 15.50

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	05.08.14 21:27	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 21:27	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 21:27	U	1
Total TPH	PHC635	ND		0.975	mg/L	05.08.14 21:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	110	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 23:55	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 23:55	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 23:55	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 23:55	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 23:55	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.13.14 23:55	U	
Total BTEX		ND		0.000700	mg/L	05.13.14 23:55	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-13-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-008

Date Collected: 05.07.14 15.40

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2570	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	536	50.0	1.40	mg/L	05.13.14 11:25		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.12.14 23:15	U	1
Chromium	7440-47-3	0.991	0.0100	0.000811	mg/L	05.12.14 23:15		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 23:15	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.12.14 23:15	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.918	0.0500	0.0250	mg/L	05.07.14 19:10		5



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-13-050714

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-008

Date Collected: 05.07.14 15.40

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.08.14 21:55	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.08.14 21:55	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.08.14 21:55	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.08.14 21:55	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	126	70 - 135	%		
o-Terphenyl	119	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 03:30	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 03:30	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 03:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 03:30	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 03:30	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 03:30	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 03:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-13A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-009

Date Collected: 05.07.14 14.45

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	432	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	68.6	20.0	0.560	mg/L	05.12.14 21:52		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0247	0.0200	0.00550	mg/L	05.12.14 23:22		1
Chromium	7440-47-3	0.00218	0.0100	0.000811	mg/L	05.12.14 23:22	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 23:22	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.12.14 23:22	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-13A-050714

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-009

Date Collected: 05.07.14 14.45

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 22:19	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 22:19	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 22:19	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 22:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	110	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 00:12	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 00:12	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 00:12	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 00:12	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 00:12	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 00:12	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 00:12	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-10-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-010

Date Collected: 05.07.14 13.35

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	5380	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	2360	200	5.60	mg/L	05.13.14 11:44		200

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00572	0.0200	0.00550	mg/L	05.12.14 23:28	J	1
Chromium	7440-47-3	0.0340	0.0100	0.000811	mg/L	05.12.14 23:28		1
Iron	7439-89-6	0.0656	0.200	0.0283	mg/L	05.12.14 23:28	J	1
Manganese	7439-96-5	0.00850	0.0200	0.00316	mg/L	05.12.14 23:28	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0336	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-10-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-010

Date Collected: 05.07.14 13.35

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.08.14 22:44	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.08.14 22:44	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.08.14 22:44	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.08.14 22:44	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	120	70 - 135	%		
o-Terphenyl	114	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 01:34	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 01:34	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 01:34	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 01:34	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 01:34	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 01:34	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 01:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-40A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-011

Date Collected: 05.07.14 12.50

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	423	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	51.5	20.0	0.560	mg/L	05.12.14 22:28		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0147	0.0200	0.00550	mg/L	05.12.14 23:35	J	1
Chromium	7440-47-3	0.00162	0.0100	0.000811	mg/L	05.12.14 23:35	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 23:35	U	1
Manganese	7439-96-5	0.00796	0.0200	0.00316	mg/L	05.12.14 23:35	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940893

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0104	0.0100	0.00500	mg/L	05.07.14 19:10		1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-40A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-011

Date Collected: 05.07.14 12.50

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.09.14 00:04	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.09.14 00:04	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.09.14 00:04	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.09.14 00:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 01:51	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 01:51	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 01:51	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 01:51	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 01:51	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 01:51	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 01:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	80 - 120	%		
4-Bromofluorobenzene	88	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-14-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-012

Date Collected: 05.07.14 11.30

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3520	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940779

Date Prep: 05.13.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655357

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1400	100	2.80	mg/L	05.13.14 12:02		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0231	0.0200	0.00550	mg/L	05.12.14 23:42		1
Chromium	7440-47-3	0.0659	0.0100	0.000811	mg/L	05.12.14 23:42		1
Iron	7439-89-6	0.0405	0.200	0.0283	mg/L	05.12.14 23:42	J	1
Manganese	7439-96-5	0.151	0.0200	0.00316	mg/L	05.12.14 23:42		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940893

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.07.14 19:10	U	5



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-14-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-012

Date Collected: 05.07.14 11.30

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.09.14 00:28	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.09.14 00:28	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.09.14 00:28	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.09.14 00:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	85	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 02:07	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 02:07	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 02:07	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 02:07	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 02:07	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 02:07	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 02:07	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-14A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-013

Date Collected: 05.07.14 10.40

Date Received: 05.07.14 19.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	449	5.00	5.00	mg/L	05.12.14 16:56		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940743

Date Prep: 05.12.14 10.56

Subcontractor: SUB: E871002

Prep seq: 655332

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	48.9	20.0	0.560	mg/L	05.12.14 23:05		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 940773

Date Prep: 05.12.14 12.00

Subcontractor: SUB: E871002

Prep seq: 655280

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0254	0.0200	0.00550	mg/L	05.12.14 23:48		1
Chromium	7440-47-3	0.00196	0.0100	0.000811	mg/L	05.12.14 23:48	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 23:48	U	1
Manganese	7439-96-5	0.0121	0.0200	0.00316	mg/L	05.12.14 23:48	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940893

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-14A-050714**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-013

Date Collected: 05.07.14 10.40

Date Received: 05.07.14 19.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.09.14 00:52	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.09.14 00:52	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.09.14 00:52	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.09.14 00:52	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	119	70 - 135	%		
o-Terphenyl	116	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.14.14 02:24	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.14.14 02:24	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.14.14 02:24	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.14.14 02:24	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.14.14 02:24	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.14.14 02:24	U	
Total BTEX		ND		0.000700	mg/L	05.14.14 02:24	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 484841-014

Date Collected: 05.07.14 00.00

Date Received: 05.07.14 19.00

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 22:50	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 22:50	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 22:50	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 22:50	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 22:50	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.13.14 22:50	U	
Total BTEX		ND		0.000700	mg/L	05.13.14 22:50	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		

Sample Id: **655188-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655188-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940504

Date Prep: 05.08.14 16.00

Prep seq: 655188

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.08.14 14:50	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.08.14 14:50	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.08.14 14:50	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.08.14 14:50	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	93	70 - 135	%		

Certificate of Analytical Results

484841

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655280-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655280-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: MKO	% Moist:	Tech: MKO
Seq Number: 940773	Date Prep: 05.12.14 12.00	
Subcontractor: SUB: E871002	Prep seq: 655280	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.12.14 21:31	U	1
Chromium	7440-47-3	0.00199	0.0100	0.000811	mg/L	05.12.14 21:31	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.12.14 21:31	U	1
Manganese	7439-96-5	0.00556	0.0200	0.00316	mg/L	05.12.14 21:31	J	1

Sample Id: 655332-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655332-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: DEP	% Moist:	Tech: DEP
Seq Number: 940743	Date Prep: 05.12.14 10.56	
Subcontractor: SUB: E871002	Prep seq: 655332	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.12.14 17:16	U	1

Sample Id: 655357-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655357-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: DEP	% Moist:	Tech: DEP
Seq Number: 940779	Date Prep: 05.13.14 10.00	
Subcontractor: SUB: E871002	Prep seq: 655357	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.13.14 09:35	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655390-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655390-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 940837

Date Prep: 05.13.14 18.00

Prep seq: 655390

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.13.14 20:05	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.13.14 20:05	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.13.14 20:05	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.13.14 20:05	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.13.14 20:05	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		

Sample Id: 940523-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 940523-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940523

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.09.14 14:40	U	1

Sample Id: 940684-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 940684-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940684

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.12.14 16:56	U	1



Certificate of Analytical Results

484841



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **940892-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 940892-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940892

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1

Sample Id: **940893-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 940893-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940893

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.07.14 19:10	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 484841,

Project ID: 073018

Lab Batch #: 940837

Sample: 655390-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/13/14 20:05	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0261	0.0300	87	80-120
4-Bromofluorobenzene		0.0275	0.0300	92	80-120

Lab Batch #: 940837

Sample: 655390-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/13/14 20:21	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0279	0.0300	93	80-120
4-Bromofluorobenzene		0.0317	0.0300	106	80-120

Lab Batch #: 940837

Sample: 655390-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/13/14 20:38	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0277	0.0300	92	80-120
4-Bromofluorobenzene		0.0318	0.0300	106	80-120

Lab Batch #: 940837

Sample: 484840-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/13/14 20:54	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0278	0.0300	93	80-120
4-Bromofluorobenzene		0.0320	0.0300	107	80-120

Lab Batch #: 940837

Sample: 484840-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/13/14 21:11	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0282	0.0300	94	80-120
4-Bromofluorobenzene		0.0324	0.0300	108	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 484841,

Project ID: 073018

Lab Batch #: 940504

Sample: 655188-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/08/14 14:50

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.2	9.87	103	70-135	
o-Terphenyl	4.58	4.94	93	70-135	

Lab Batch #: 940504

Sample: 655188-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/08/14 15:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.3	9.87	125	70-135	
o-Terphenyl	6.10	4.93	124	70-135	

Lab Batch #: 940504

Sample: 655188-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/08/14 15:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.8	9.87	130	70-135	
o-Terphenyl	5.93	4.94	120	70-135	

Lab Batch #: 940504

Sample: 484841-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/08/14 18:56

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.4	9.87	105	70-135	
o-Terphenyl	5.97	4.94	121	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Work Order #: 484841

Project ID:

073018

Lab Batch #: 940892

Sample: 940892-1-BKS

Matrix: Water

Date Analyzed: 05/07/2014

Date Prepared: 05/07/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0398	100	80-120	

Lab Batch #: 940893

Sample: 940893-1-BKS

Matrix: Water

Date Analyzed: 05/07/2014

Date Prepared: 05/07/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0380	95	80-120	

Lab Batch #: 940743

Sample: 655332-1-BKS

Matrix: Water

Date Analyzed: 05/12/2014

Date Prepared: 05/12/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<0.0280	10.0	10.1	101	80-120	

Lab Batch #: 940779

Sample: 655357-1-BKS

Matrix: Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<0.0280	10.0	10.2	102	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 484841

Project ID: 073018

Analyst: ARM

Date Prepared: 05/13/2014

Date Analyzed: 05/13/2014

Lab Batch ID: 940837

Sample: 655390-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0942	94	0.100	0.0942	94	0	70-125	25	
Toluene	<0.00100	0.100	0.0941	94	0.100	0.0941	94	0	70-125	25	
Ethylbenzene	<0.000800	0.100	0.101	101	0.100	0.100	100	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.207	104	0.200	0.206	103	0	70-131	25	
o-Xylene	<0.000700	0.100	0.103	103	0.100	0.103	103	0	71-133	25	

Analyst: MKO

Date Prepared: 05/12/2014

Date Analyzed: 05/12/2014

Lab Batch ID: 940773

Sample: 655280-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.04	104	1.00	1.00	100	4	80-120	20	
Chromium	0.00199	1.00	1.08	108	1.00	1.03	103	5	80-120	20	
Iron	<0.0283	5.00	5.48	110	5.00	5.21	104	5	80-120	20	
Manganese	0.00556	1.00	1.11	111	1.00	1.05	105	6	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 484841

Project ID: 073018

Analyst: ANS

Date Prepared: 05/09/2014

Date Analyzed: 05/09/2014

Lab Batch ID: 940523

Sample: 940523-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1010	101	1000	1030	103	2	80-120	10	

Analyst: ANS

Date Prepared: 05/12/2014

Date Analyzed: 05/12/2014

Lab Batch ID: 940684

Sample: 940684-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	920	92	1000	906	91	2	80-120	10	

Analyst: ARM

Date Prepared: 05/08/2014

Date Analyzed: 05/08/2014

Lab Batch ID: 940504

Sample: 655188-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	102	103	98.7	107	108	5	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	109	110	98.7	104	105	5	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 484841

Lab Batch #: 940504

Date Analyzed: 05/08/2014

QC- Sample ID: 484841-001 S

Reporting Units: mg/L

Date Prepared: 05/08/2014

Batch #: 1

Project ID: 073018

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	85.0	86	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	91.4	93	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 484841

Project ID: 073018

Lab Batch ID: 940837

QC- Sample ID: 484840-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0961	96	0.100	0.0979	98	2	70-125	25	
Toluene	<0.00100	0.100	0.0962	96	0.100	0.0981	98	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.103	103	0.100	0.105	105	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.212	106	0.200	0.215	108	1	70-131	25	
o-Xylene	<0.000700	0.100	0.106	106	0.100	0.108	108	2	71-133	25	

Lab Batch ID: 940892

QC- Sample ID: 484841-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/07/2014

Date Prepared: 05/07/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	<0.00500	0.200	0.202	101	0.200	0.204	102	1	80-120	20	

Lab Batch ID: 940893

QC- Sample ID: 484841-011 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/07/2014

Date Prepared: 05/07/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.0104	0.200	0.210	100	0.200	0.206	98	2	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 484841

Project ID: 073018

Lab Batch ID: 940773

QC- Sample ID: 484841-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/12/2014

Date Prepared: 05/12/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.0210	1.00	1.06	104	1.00	1.07	105	1	75-125	20	
Chromium	0.00239	1.00	1.05	105	1.00	1.05	105	0	75-125	20	
Iron	<0.0283	5.00	5.00	100	5.00	4.98	100	0	75-125	20	
Manganese	0.00585	1.00	1.06	105	1.00	1.08	107	2	75-125	20	

Lab Batch ID: 940743

QC- Sample ID: 484841-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/12/2014

Date Prepared: 05/12/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	66.3	200	268	101	200	267	100	0	80-120	20	

Lab Batch ID: 940779

QC- Sample ID: 484841-002 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	924	1000	1920	100	1000	1920	100	0	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 484841

Project ID: 073018

Lab Batch ID: 940779

QC- Sample ID: 485180-003 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	7.17	10.0	16.3	91	10.0	16.3	91	0	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 484841

Lab Batch #: 940523

Project ID: 073018

Date Analyzed: 05/09/2014 14:40

Date Prepared: 05/09/2014

Analyst: ANS

QC- Sample ID: 484804-008 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1510	1380	9	10	

Lab Batch #: 940684

Date Analyzed: 05/12/2014 16:56

Date Prepared: 05/12/2014

Analyst: ANS

QC- Sample ID: 484841-002 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	4000	3960	1	10	

Lab Batch #: 940684

Date Analyzed: 05/12/2014 16:56

Date Prepared: 05/12/2014

Analyst: ANS

QC- Sample ID: 484841-012 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3520	3620	3	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

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☐ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**

Serial #: 329753 Page 1 of 2

Company-City CEA - Midland	Phone 432-686-0086	Lab Only:																												
Project Name-Location N. Emilia , NM	☐ Previously done at XENCO	Project ID 073018																												
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other	Proj. Manager (PM) Mike Wisniewicki																													
E-mail Results to mwisniewicki@crowco.com	☐ PM and	Fax No: 432-686-0086																												
Invoice to ☐ Accounting ☐ Inc.	Bill to:	Invoice with Final Report ☐																												
Quote/Pricing:	P.O. No:	☐ Call for P.O.																												
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP	QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:																													
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)																														
Sampler Name Justin Nixon	Signature [Signature]																													
Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List BTEX-MTBE EtOH Oxyg VOHS VOA's	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MAEPH MA VPH	SVOCs: Full-List DW BN&AE TCPL PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2	SPLP - TCPLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	Dissolved metals @ 6010 B	TDS Sm 2540C	Chlorides E300	Fly GLO + DRG 8015 mod	Hx drom 7196A	BTEX 8021 B	TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Remarks	
1 Dup-2-050714	5-7-14	L		W	X	6														X	X	X	X	X	X					
2 mw-8-050714		1005																												
3 mw-3-050714		1125																												
4 mw-9b-050714		1230																												
5 mw-9f-050714		1335																												
6 Iw-2g-050714		1440																												
7 mw-7A-050714		1550																												
8 mw-13-050714		1540																												
9 mw-13A-050714		1445																												
10 mw-10-050714		1335																												
Relinquished by (Initials and Sign)		Date & Time	Relinquished to (Initials and Sign)		Date & Time	Total Containers per COC:	Cooler Temp: °C																							
1) [Signature] 5-7-14		5-7-14	2) [Signature] 5-7-14 17:40		5-7-14 17:40	Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.																								
3) [Signature] 5-7-14 19:00		5-7-14 19:00	4) MINDU Rios		5-7-14 19:00																									
5)			6)																											

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O) _____
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

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Serial #: 329752 Page 2 of 2

[illegible]

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O) _____
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ **Cont. Type:** Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/07/2014 07:00:00 PM

Work Order #: 484841

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/08/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/08/2014

Analytical Report 485080

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

20-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



20-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485080**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485080. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485080 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Sample Cross Reference 485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-030P-050914	W	05-09-14 09:00		485080-001
MW-7-050914	W	05-09-14 10:00		485080-002
MW-95-050914	W	05-09-14 11:40		485080-003
MW-94-050914	W	05-09-14 13:00		485080-004
MW-88M-050914	W	05-09-14 14:40		485080-005
MW-18-050914	W	05-09-14 13:45		485080-006
MW-26-050914	W	05-09-14 12:40		485080-007
MW-27-050914	W	05-09-14 11:45		485080-008
TRIP BLANK	W	05-09-14 00:00		485080-009
Lords WW	W	05-09-14 00:00		Not Analyzed



CASE NARRATIVE



Client Name: Conestoga Rovers & Associates

Project Name: N. Eunice/Eunice

Project ID: 073018
Work Order Number(s): 485080

Report Date: 20-MAY-14
Date Received: 05/09/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-941122 TPH By SW8015 Mod

C28-C35 Oil Range Hydrocarbons RPD was outside laboratory control limits.

Samples affected are: 485080-002, -005, -006, -001, -003, -008, -007, -004

Batch: LBA-941155 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene, Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 485080-001.

Batch: LBA-941355 Dissolved Metals per ICP by SW846 6010B

Chromium detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Samples affected are: 485080-002, -005, -006, -001, -003, -008, -007, -004.



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-030P-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-001

Date Collected: 05.09.14 09.00

Date Received: 05.09.14 16.51

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940927

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2920	5.00	5.00	mg/L	05.14.14 18:36		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940981

Date Prep: 05.14.14 15.00

Subcontractor: SUB: E871002

Prep seq: 655472

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	264	20.0	0.560	mg/L	05.14.14 22:38		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0416	0.0200	0.00550	mg/L	05.19.14 17:49		1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 17:49	U	1
Iron	7439-89-6	4.76	0.200	0.0283	mg/L	05.19.14 17:49		1
Manganese	7439-96-5	2.39	0.0200	0.00316	mg/L	05.19.14 17:49		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940954

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.09.14 18:30	U	5

Certificate of Analytical Results

485080

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-030P-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-001

Date Collected: 05.09.14 09.00

Date Received: 05.09.14 16.51

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941122

Date Prep: 05.15.14 17.00

Prep seq: 655581

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.15.14 23:06	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.15.14 23:06	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.15.14 23:06	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.15.14 23:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	88	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 11:36	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 11:36	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 11:36	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 11:36	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 11:36	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 11:36	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 11:36	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	64	80 - 120	%		**
4-Bromofluorobenzene	76	80 - 120	%		**



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-7-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-002

Date Collected: 05.09.14 10.00

Date Received: 05.09.14 16.51

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940927

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1780	5.00	5.00	mg/L	05.14.14 18:36		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940981

Date Prep: 05.14.14 15.00

Subcontractor: SUB: E871002

Prep seq: 655472

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	366	20.0	0.560	mg/L	05.14.14 22:57		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0122	0.0200	0.00550	mg/L	05.19.14 17:56	J	1
Chromium	7440-47-3	0.0202	0.0100	0.000811	mg/L	05.19.14 17:56		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 17:56	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 17:56	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940954

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0205	0.0100	0.00500	mg/L	05.09.14 18:30		1



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-7-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-002

Date Collected: 05.09.14 10.00

Date Received: 05.09.14 16.51

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941122

Date Prep: 05.15.14 17.00

Prep seq: 655581

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.15.14 23:34	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.15.14 23:34	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.15.14 23:34	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.15.14 23:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	81	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 07:54	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 07:54	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 07:54	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 07:54	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 07:54	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 07:54	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 07:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		

Certificate of Analytical Results

485080

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-95-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-003

Date Collected: 05.09.14 11.40

Date Received: 05.09.14 16.51

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940927

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4340	5.00	5.00	mg/L	05.14.14 18:36		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941028

Date Prep: 05.15.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655510

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1290	100	2.80	mg/L	05.15.14 10:05		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0266	0.0200	0.00550	mg/L	05.19.14 18:02		1
Chromium	7440-47-3	3.83	0.0100	0.000811	mg/L	05.19.14 18:02		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 18:02	U	1
Manganese	7439-96-5	0.109	0.0200	0.00316	mg/L	05.19.14 18:02		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940954

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	3.76	0.0500	0.0250	mg/L	05.09.14 18:30		5



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-95-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-003

Date Collected: 05.09.14 11.40

Date Received: 05.09.14 16.51

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941122

Date Prep: 05.15.14 17.00

Prep seq: 655581

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.16.14 00:01	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.16.14 00:01	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.16.14 00:01	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.16.14 00:01	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	106	70 - 135	%		
o-Terphenyl	84	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 08:10	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 08:10	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 08:10	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 08:10	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 08:10	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 08:10	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 08:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-94-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-004

Date Collected: 05.09.14 13.00

Date Received: 05.09.14 16.51

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940927

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1110	5.00	5.00	mg/L	05.14.14 18:36		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940981

Date Prep: 05.14.14 15.00

Subcontractor: SUB: E871002

Prep seq: 655472

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	138	20.0	0.560	mg/L	05.14.14 23:34		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0141	0.0200	0.00550	mg/L	05.19.14 18:09	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 18:09	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 18:09	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 18:09	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940954

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.09.14 18:30	U	1



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-94-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-004

Date Collected: 05.09.14 13.00

Date Received: 05.09.14 16.51

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941122

Date Prep: 05.15.14 17.00

Prep seq: 655581

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.16.14 00:28	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.16.14 00:28	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.16.14 00:28	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.16.14 00:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	77	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 08:26	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 08:26	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 08:26	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 08:26	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 08:26	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 08:26	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 08:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-88M-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-005

Date Collected: 05.09.14 14.40

Date Received: 05.09.14 16.51

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940927

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	6000	5.00	5.00	mg/L	05.14.14 18:36		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941028

Date Prep: 05.15.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655510

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	826	100	2.80	mg/L	05.15.14 10:24		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0354	0.0200	0.00550	mg/L	05.19.14 18:15		1
Chromium	7440-47-3	0.126	0.0100	0.000811	mg/L	05.19.14 18:15		1
Iron	7439-89-6	9.15	0.200	0.0283	mg/L	05.19.14 18:15		1
Manganese	7439-96-5	9.81	0.0200	0.00316	mg/L	05.19.14 18:15		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940954

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.09.14 18:30	U	5



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-88M-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-005

Date Collected: 05.09.14 14.40

Date Received: 05.09.14 16.51

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941122

Date Prep: 05.15.14 17.00

Prep seq: 655581

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	3.36	1.48	0.975	mg/L	05.16.14 00:54		1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.16.14 00:54	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.16.14 00:54	U	1
Total TPH	PHCG635	3.36		0.975	mg/L	05.16.14 00:54		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	76	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 12:09	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 12:09	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 12:09	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 12:09	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 12:09	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 12:09	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 12:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	80 - 120	%		
4-Bromofluorobenzene	85	80 - 120	%		



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-18-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-006

Date Collected: 05.09.14 13.45

Date Received: 05.09.14 16.51

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940927

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1220	5.00	5.00	mg/L	05.14.14 18:36		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940981

Date Prep: 05.14.14 15.00

Subcontractor: SUB: E871002

Prep seq: 655472

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	220	20.0	0.560	mg/L	05.15.14 00:11		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0150	0.0200	0.00550	mg/L	05.19.14 18:22	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 18:22	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 18:22	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 18:22	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940954

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.09.14 18:30	U	1



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-18-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-006

Date Collected: 05.09.14 13.45

Date Received: 05.09.14 16.51

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941122

Date Prep: 05.15.14 17.00

Prep seq: 655581

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.974	mg/L	05.16.14 02:09	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.974	mg/L	05.16.14 02:09	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.974	mg/L	05.16.14 02:09	U	1
Total TPH	PHCG635	ND		0.974	mg/L	05.16.14 02:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	85	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 08:49	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 08:49	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 08:49	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 08:49	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 08:49	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 08:49	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 08:49	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-26-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-007

Date Collected: 05.09.14 12.40

Date Received: 05.09.14 16.51

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940927

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2050	5.00	5.00	mg/L	05.14.14 18:36		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941028

Date Prep: 05.15.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655510

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	427	100	2.80	mg/L	05.15.14 10:42		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.19.14 18:28	U	1
Chromium	7440-47-3	0.00189	0.0100	0.000811	mg/L	05.19.14 18:28	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 18:28	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 18:28	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940954

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.09.14 18:30	U	1



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-26-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-007

Date Collected: 05.09.14 12.40

Date Received: 05.09.14 16.51

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941122

Date Prep: 05.15.14 17.00

Prep seq: 655581

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.974	mg/L	05.16.14 02:36	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.974	mg/L	05.16.14 02:36	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.974	mg/L	05.16.14 02:36	U	1
Total TPH	PHCG635	ND		0.974	mg/L	05.16.14 02:36	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	125	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 10:46	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 10:46	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 10:46	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 10:46	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 10:46	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 10:46	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 10:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	94	80 - 120	%		
4-Bromofluorobenzene	110	80 - 120	%		



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-27-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-008

Date Collected: 05.09.14 11.45

Date Received: 05.09.14 16.51

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 940927

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1420	5.00	5.00	mg/L	05.14.14 18:36		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940981

Date Prep: 05.14.14 15.00

Subcontractor: SUB: E871002

Prep seq: 655472

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	275	20.0	0.560	mg/L	05.15.14 00:47		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00761	0.0200	0.00550	mg/L	05.19.14 18:35	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 18:35	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 18:35	U	1
Manganese	7439-96-5	0.00682	0.0200	0.00316	mg/L	05.19.14 18:35	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940954

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.09.14 18:30	U	1



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-27-050914**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-008

Date Collected: 05.09.14 11.45

Date Received: 05.09.14 16.51

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941122

Date Prep: 05.15.14 17.00

Prep seq: 655581

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.974	mg/L	05.16.14 03:03	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.974	mg/L	05.16.14 03:03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.974	mg/L	05.16.14 03:03	U	1
Total TPH	PHCG635	ND		0.974	mg/L	05.16.14 03:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	82	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 11:02	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 11:02	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 11:02	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 11:02	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 11:02	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 11:02	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 11:02	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 485080-009

Date Collected: 05.09.14 00.00

Date Received: 05.09.14 16.51

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 07:37	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 07:37	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 07:37	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 07:37	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 07:37	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 07:37	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 07:37	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		

Sample Id: **655472-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655472-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: SW9056P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 940981

Date Prep: 05.14.14 11.00

Subcontractor: SUB: E871002

Prep seq: 655472

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.14.14 10:04	U	1

Sample Id: **655510-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655510-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941028

Date Prep: 05.15.14 10.00

Subcontractor: SUB: E871002

Prep seq: 655510

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.15.14 09:28	U	1



Certificate of Analytical Results

485080



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655581-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655581-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941122

Date Prep: 05.15.14 17.00

Prep seq: 655581

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.15.14 19:21	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.15.14 19:21	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.15.14 19:21	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.15.14 19:21	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	114	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Sample Id: 655591-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655591-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 04:36	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 04:36	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 04:36	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 04:36	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 04:36	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		

Certificate of Analytical Results

485080

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655613-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655613-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: MKO	% Moist:	Tech: MKO
Seq Number: 941355	Date Prep: 05.17.14 13.30	
Subcontractor: SUB: E871002	Prep seq: 655613	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.19.14 16:18	U	1
Chromium	7440-47-3	0.00186	0.0100	0.000811	mg/L	05.19.14 16:18	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 16:18	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 16:18	U	1

Sample Id: 940927-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 940927-1-BLK	Date Collected:	Date Received:
Analytical Method: TDS by SM2540C		Prep Method:
Analyst: ANS	% Moist:	Tech: ANS
Seq Number: 940927	Date Prep:	
Subcontractor: SUB: E871002	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.14.14 18:36	U	1

Sample Id: 940954-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 940954-1-BLK	Date Collected:	Date Received:
Analytical Method: Chromium, Hexavalent by SW 7196A		Prep Method:
Analyst: WRU	% Moist:	Tech: WRU
Seq Number: 940954	Date Prep:	
	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.09.14 18:30	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Sample Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485080,

Project ID: 073018

Lab Batch #: 941155

Sample: 655591-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/16/14 04:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 941155

Sample: 655591-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/16/14 04:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0321	0.0300	107	80-120	

Lab Batch #: 941155

Sample: 655591-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/16/14 05:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 941155

Sample: 485208-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/16/14 05:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 941155

Sample: 485208-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/16/14 05:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0337	0.0300	112	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485080,

Project ID: 073018

Lab Batch #: 941122

Sample: 655581-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/15/14 19:21		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.3	9.87	114	70-135
o-Terphenyl		5.11	4.94	103	70-135

Lab Batch #: 941122

Sample: 655581-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/15/14 19:45		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.2	9.87	124	70-135
o-Terphenyl		6.29	4.94	127	70-135

Lab Batch #: 941122

Sample: 655581-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/15/14 20:09		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.8	9.87	120	70-135
o-Terphenyl		6.11	4.94	124	70-135

Lab Batch #: 941122

Sample: 485208-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/15/14 20:58		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.9	9.87	121	70-135
o-Terphenyl		6.10	4.93	124	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 485080

Project ID:

073018

Lab Batch #: 940954

Sample: 940954-1-BKS

Matrix: Water

Date Analyzed: 05/09/2014

Date Prepared: 05/09/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0391	98	80-120	

Lab Batch #: 940981

Sample: 655472-1-BKS

Matrix: Water

Date Analyzed: 05/14/2014

Date Prepared: 05/14/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	<0.0280	10.0	10.1	101	80-120	

Lab Batch #: 941028

Sample: 655510-1-BKS

Matrix: Water

Date Analyzed: 05/15/2014

Date Prepared: 05/15/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	<0.0280	10.0	10.2	102	80-120	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 485080

Project ID: 073018

Analyst: ARM

Date Prepared: 05/15/2014

Date Analyzed: 05/16/2014

Lab Batch ID: 941155

Sample: 655591-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.108	108	0.100	0.108	108	0	70-125	25	
Toluene	<0.00100	0.100	0.106	106	0.100	0.107	107	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.112	112	0.100	0.113	113	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.230	115	0.200	0.231	116	0	70-131	25	
o-Xylene	<0.000700	0.100	0.117	117	0.100	0.118	118	1	71-133	25	

Analyst: MKO

Date Prepared: 05/17/2014

Date Analyzed: 05/19/2014

Lab Batch ID: 941355

Sample: 655613-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.946	95	1.00	0.959	96	1	80-120	20	
Chromium	0.00186	1.00	1.00	100	1.00	1.02	102	2	80-120	20	
Iron	<0.0283	5.00	5.22	104	5.00	5.37	107	3	80-120	20	
Manganese	<0.00316	1.00	1.02	102	1.00	1.05	105	3	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 485080

Project ID: 073018

Analyst: ANS

Date Prepared: 05/14/2014

Date Analyzed: 05/14/2014

Lab Batch ID: 940927

Sample: 940927-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1020	102	1000	966	97	5	80-120	10	

Analyst: ARM

Date Prepared: 05/15/2014

Date Analyzed: 05/15/2014

Lab Batch ID: 941122

Sample: 655581-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	96.7	98	98.7	95.8	97	1	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.7	99.4	101	98.7	102	103	3	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 485080

Lab Batch #: 941122

Date Analyzed: 05/15/2014

QC- Sample ID: 485208-001 S

Reporting Units: mg/L

Date Prepared: 05/15/2014

Batch #: 1

Project ID: 073018

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	1.41	98.7	94.4	94	70-135	
C12-C28 Diesel Range Hydrocarbons	2.18	98.7	98.7	98	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485080

Project ID: 073018

Lab Batch ID: 941155

QC- Sample ID: 485208-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/16/2014

Date Prepared: 05/15/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.102	102	0.100	0.0992	99	3	70-125	25	
Toluene	<0.00100	0.100	0.100	100	0.100	0.0981	98	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.106	106	0.100	0.104	104	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.216	108	0.200	0.212	106	2	70-131	25	
o-Xylene	<0.000700	0.100	0.110	110	0.100	0.108	108	2	71-133	25	

Lab Batch ID: 940954

QC- Sample ID: 485080-002 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/09/2014

Date Prepared: 05/09/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	0.0205	0.200	0.221	100	0.200	0.224	102	1	80-120	20	

Lab Batch ID: 941355

QC- Sample ID: 485208-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/19/2014

Date Prepared: 05/17/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.00904	1.00	0.988	98	1.00	0.994	98	1	75-125	20	
Chromium	0.00796	1.00	0.999	99	1.00	1.01	100	1	75-125	20	
Iron	<0.0283	5.00	4.70	94	5.00	4.64	93	1	75-125	20	
Manganese	<0.00316	1.00	1.01	101	1.00	1.02	102	1	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485080

Project ID: 073018

Lab Batch ID: 940981

QC- Sample ID: 484979-020 S

Batch #: 1 Matrix: Surface Water

Date Analyzed: 05/14/2014

Date Prepared: 05/14/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1.18	10.0	11.4	102	10.0	11.5	103	1	80-120	20	

Lab Batch ID: 940981

QC- Sample ID: 485294-002 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/14/2014

Date Prepared: 05/14/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	22.2	10.0	32.6	104	10.0	33.1	109	2	80-120	20	

Lab Batch ID: 941028

QC- Sample ID: 485240-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/15/2014

Date Prepared: 05/15/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	363	200	574	106	200	571	104	1	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485080

Project ID: 073018

Lab Batch ID: 941028

QC- Sample ID: 485339-001 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 05/15/2014

Date Prepared: 05/15/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	11.3	10.0	21.7	104	10.0	21.6	103	0	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 485080

Lab Batch #: 940927

Project ID: 073018

Date Analyzed: 05/14/2014 18:36

Date Prepared: 05/14/2014

Analyst: ANS

QC- Sample ID: 484910-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	233000	233000	0	10	

Lab Batch #: 940927

Date Analyzed: 05/14/2014 18:36

Date Prepared: 05/14/2014

Analyst: ANS

QC- Sample ID: 485080-005 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	6000	5450	10	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

XENCO
Laboratories

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☒ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**

Serial #: 329768 Page 1 of 1

Company-City <u>Chattanooga</u> Phone <u>432-686-0086</u>				Lab Only: <u>485080</u>																										
Project Name-Location <u>N. Emile, NM</u> ☐ Previously done at XENCO Project ID <u>073018</u>				TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.																										
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other <u> </u> Proj. Manager (PM) <u>Mike Wisniewski</u>				VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM 8310 8270 TX-1005 DRO GRO MAEPH MA VPH SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL OC Pesticides PCBs Herbicides OP Pesticides Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2 SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs) EDB / DBCP <u>BTEX 8021 B</u> <u>Dissolved metals 6010B</u> <u>TDs 5m 2540C</u> <u>Chlorides E 300</u> <u>TPH 600 + DRO 8015 mod</u> <u>Hex Chrom 7196 A</u>																										
E-mail Results to ☒ PM and <u> </u> Fax No: <u>432-686-0186</u>																														
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O. Bill to: <u> </u>																														
Quote/Pricing: <u> </u> P.O. No: <u> </u> ☐ Call for P.O.																														
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP																														
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER: <u> </u>																														
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM) <u> </u>																														
Sampler Name <u>Justin Nixon</u> Signature <u>[Signature]</u> Remarks																														
Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MAEPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Addn:	Date	Rcv. by:	From:			
1 MW-30P-050914	5-9-14	900		W		X	6																							
2 MW-7-050914		1000																												
3 MW-95-050914		1140																												
4 MW-94-050914		1300																												
5 MW-88m-050914		1440																												
6 MW-18-050914		1345																												
7 MW-26-050914		1240																												
8 MW-27-050914		1145																												
9 Trip Blank																														
10 ECF 14A-1403																														
Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time		Total Containers per COC:		Cooler Temp: <u> </u> °C		Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.																		
1) <u>[Signature]</u>		5-9-14 16:52		2) <u>M. A. Gervais</u>		5/9/14 16:52																								
3) <u>[Signature]</u>				4) <u> </u>																										
5) <u> </u>				6) <u> </u>																										

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality

www.xenco.com

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/09/2014 04:51:00 PM

Work Order #: 485080

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/09/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/09/2014

Analytical Report 485208

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

20-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



20-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485208**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485208. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485208 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-32-051214	W	05-12-14 11:35		485208-001
MW-68-051214	W	05-12-14 13:30		485208-002
MW-31-051214	W	05-12-14 14:25		485208-003
MW-60-051214	W	05-12-14 15:20		485208-004
MW-30-051214	W	05-12-14 16:40		485208-005
Trip Blank	W	05-12-14 00:00		485208-006



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 485208

Report Date: 20-MAY-14
Date Received: 05/12/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-941355 Dissolved Metals per ICP by SW846 6010B

Chromium detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Samples affected are: 485208-005, -001, -002, -003, -004.



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-32-051214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-001

Date Collected: 05.12.14 11.35

Date Received: 05.12.14 19.10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941044

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1310	5.00	5.00	mg/L	05.15.14 17:57		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 20.07

Prep seq: 655339

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	299	50.0	1.40	mg/L	05.14.14 20:07		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00904	0.0200	0.00550	mg/L	05.19.14 16:38	J	1
Chromium	7440-47-3	0.00796	0.0100	0.000811	mg/L	05.19.14 16:38	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 16:38	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 16:38	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940957

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00930	0.0100	0.00500	mg/L	05.12.14 19:15	J	1



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-32-051214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-001

Date Collected: 05.12.14 11.35

Date Received: 05.12.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941317

Date Prep: 05.19.14 13.00

Prep seq: 655706

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.19.14 20:44	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.19.14 20:44	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.19.14 20:44	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.19.14 20:44	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	125	70 - 135	%		
o-Terphenyl	129	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 06:31	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 06:31	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 06:31	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 06:31	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 06:31	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 06:31	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 06:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-68-051214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-002

Date Collected: 05.12.14 13.30

Date Received: 05.12.14 19.10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941044

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	798	5.00	5.00	mg/L	05.15.14 17:57		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 20.30

Prep seq: 655339

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	124	10.0	0.280	mg/L	05.14.14 20:30		10

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0171	0.0200	0.00550	mg/L	05.19.14 17:10	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 17:10	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 17:10	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 17:10	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940957

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.12.14 19:15	U	1



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-68-051214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-002

Date Collected: 05.12.14 13.30

Date Received: 05.12.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941317

Date Prep: 05.19.14 13.00

Prep seq: 655706

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.19.14 21:32	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.19.14 21:32	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.19.14 21:32	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.19.14 21:32	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	126	70 - 135	%		
o-Terphenyl	130	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 06:48	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 06:48	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 06:48	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 06:48	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 06:48	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 06:48	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 06:48	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	100	80 - 120	%		

Certificate of Analytical Results

485208

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-31-051214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-003

Date Collected: 05.12.14 14.25

Date Received: 05.12.14 19.10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941044

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	780	5.00	5.00	mg/L	05.15.14 17:57		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 20.52

Prep seq: 655339

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	106	10.0	0.280	mg/L	05.14.14 20:52		10

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0145	0.0200	0.00550	mg/L	05.19.14 17:17	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 17:17	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 17:17	U	1
Manganese	7439-96-5	0.166	0.0200	0.00316	mg/L	05.19.14 17:17		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940957

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.12.14 19:15	U	1



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-31-051214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-003

Date Collected: 05.12.14 14.25

Date Received: 05.12.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941317

Date Prep: 05.19.14 13.00

Prep seq: 655706

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.19.14 21:56	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.19.14 21:56	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.19.14 21:56	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.19.14 21:56	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	119	70 - 135	%		
o-Terphenyl	128	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 07:04	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 07:04	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 07:04	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 07:04	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 07:04	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 07:04	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 07:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	100	80 - 120	%		



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-60-051214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-004

Date Collected: 05.12.14 15.20

Date Received: 05.12.14 19.10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941044

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2760	5.00	5.00	mg/L	05.15.14 17:57		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.15.14 08.36

Prep seq: 655339

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1440	100	2.80	mg/L	05.15.14 08:36		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0184	0.0200	0.00550	mg/L	05.19.14 17:36	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 17:36	U	1
Iron	7439-89-6	0.802	0.200	0.0283	mg/L	05.19.14 17:36		1
Manganese	7439-96-5	0.935	0.0200	0.00316	mg/L	05.19.14 17:36		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940957

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.12.14 19:15	U	1



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-60-051214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-004

Date Collected: 05.12.14 15.20

Date Received: 05.12.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941317

Date Prep: 05.19.14 13.00

Prep seq: 655706

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.974	mg/L	05.19.14 22:19	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.974	mg/L	05.19.14 22:19	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.974	mg/L	05.19.14 22:19	U	1
Total TPH	PHCG635	ND		0.974	mg/L	05.19.14 22:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	124	70 - 135	%		
o-Terphenyl	129	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 11:52	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 11:52	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 11:52	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 11:52	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 11:52	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 11:52	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 11:52	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		

Certificate of Analytical Results

485208

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-30-051214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-005

Date Collected: 05.12.14 16.40

Date Received: 05.12.14 19.10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941044

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	633	5.00	5.00	mg/L	05.15.14 17:57		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.15.14 08.59

Prep seq: 655339

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	154	10.0	0.280	mg/L	05.15.14 08:59		10

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0278	0.0200	0.00550	mg/L	05.19.14 17:43		1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 17:43	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 17:43	U	1
Manganese	7439-96-5	0.00418	0.0200	0.00316	mg/L	05.19.14 17:43	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940957

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.12.14 19:15	U	1



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-30-051214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-005

Date Collected: 05.12.14 16.40

Date Received: 05.12.14 19.10

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941317

Date Prep: 05.19.14 13.00

Prep seq: 655706

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.19.14 22:44	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.19.14 22:44	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.19.14 22:44	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.19.14 22:44	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	128	70 - 135	%		
o-Terphenyl	130	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 07:21	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 07:21	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 07:21	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 07:21	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 07:21	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 07:21	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 07:21	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **Trip Blank**

Matrix: Water

Sample Depth:

Lab Sample Id: 485208-006

Date Collected: 05.12.14 00.00

Date Received: 05.12.14 19.10

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 06:14	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 06:14	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 06:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 06:14	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 06:14	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 06:14	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 06:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	94	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		

Sample Id: **655339-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655339-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.14.14 18.59

Prep seq: 655339

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.14.14 18:59	U	1



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655591-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655591-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941155

Date Prep: 05.15.14 16.00

Prep seq: 655591

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 04:36	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 04:36	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 04:36	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 04:36	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 04:36	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		

Sample Id: 655613-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655613-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941355

Date Prep: 05.17.14 13.30

Subcontractor: SUB: E871002

Prep seq: 655613

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.19.14 16:18	U	1
Chromium	7440-47-3	0.00186	0.0100	0.000811	mg/L	05.19.14 16:18	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 16:18	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 16:18	U	1



Certificate of Analytical Results

485208



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655706-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655706-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941317

Date Prep: 05.19.14 13.00

Prep seq: 655706

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.15	0.760	mg/L	05.19.14 19:31	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.15	0.760	mg/L	05.19.14 19:31	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.15	0.760	mg/L	05.19.14 19:31	U	1
Total TPH	PHC635	ND		0.760	mg/L	05.19.14 19:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	129	70 - 135	%		
o-Terphenyl	126	70 - 135	%		

Sample Id: 940957-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 940957-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940957

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.12.14 19:15	U	1

Sample Id: 941044-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 941044-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941044

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.15.14 17:57	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485208,

Project ID: 073018

Lab Batch #: 941155

Sample: 655591-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/16/14 04:36

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0298	0.0300	99	80-120	

Lab Batch #: 941155

Sample: 655591-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/16/14 04:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0321	0.0300	107	80-120	

Lab Batch #: 941155

Sample: 655591-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/16/14 05:09

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 941155

Sample: 485208-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/16/14 05:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 941155

Sample: 485208-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/16/14 05:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0337	0.0300	112	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485208,

Project ID: 073018

Lab Batch #: 941317

Sample: 655706-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/19/14 19:31		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.89	7.69	129	70-135
o-Terphenyl		4.86	3.85	126	70-135

Lab Batch #: 941317

Sample: 655706-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/19/14 19:56		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.8	9.87	130	70-135
o-Terphenyl		6.24	4.93	127	70-135

Lab Batch #: 941317

Sample: 655706-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/19/14 20:20		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.0	9.87	122	70-135
o-Terphenyl		6.36	4.94	129	70-135

Lab Batch #: 941317

Sample: 485208-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/19/14 21:08		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.8	9.87	130	70-135
o-Terphenyl		6.36	4.94	129	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 485208

Project ID:

073018

Lab Batch #: 940957

Sample: 940957-1-BKS

Matrix: Water

Date Analyzed: 05/12/2014

Date Prepared: 05/12/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0411	103	80-120	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 485208

Project ID: 073018

Analyst: ARM

Date Prepared: 05/15/2014

Date Analyzed: 05/16/2014

Lab Batch ID: 941155

Sample: 655591-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.108	108	0.100	0.108	108	0	70-125	25	
Toluene	<0.00100	0.100	0.106	106	0.100	0.107	107	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.112	112	0.100	0.113	113	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.230	115	0.200	0.231	116	0	70-131	25	
o-Xylene	<0.000700	0.100	0.117	117	0.100	0.118	118	1	71-133	25	

Analyst: MKO

Date Prepared: 05/17/2014

Date Analyzed: 05/19/2014

Lab Batch ID: 941355

Sample: 655613-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.946	95	1.00	0.959	96	1	80-120	20	
Chromium	0.00186	1.00	1.00	100	1.00	1.02	102	2	80-120	20	
Iron	<0.0283	5.00	5.22	104	5.00	5.37	107	3	80-120	20	
Manganese	<0.00316	1.00	1.02	102	1.00	1.05	105	3	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 485208

Project ID: 073018

Analyst: RKO

Date Prepared: 05/14/2014

Date Analyzed: 05/14/2014

Lab Batch ID: 941041

Sample: 655339-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	24.9	100	25.0	24.2	97	3	80-120	20	

Analyst: ANS

Date Prepared: 05/15/2014

Date Analyzed: 05/15/2014

Lab Batch ID: 941044

Sample: 941044-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1020	102	1000	1030	103	1	80-120	10	

Analyst: ARM

Date Prepared: 05/19/2014

Date Analyzed: 05/19/2014

Lab Batch ID: 941317

Sample: 655706-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	107	108	98.7	106	107	1	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	106	107	98.7	101	102	5	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 485208

Lab Batch #: 941041

Date Analyzed: 05/14/2014

QC- Sample ID: 484976-001 S

Reporting Units: mg/L

Date Prepared: 05/14/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	1190	2500	4090	116	80-120	

Lab Batch #: 941041

Date Analyzed: 05/14/2014

QC- Sample ID: 485208-003 S

Reporting Units: mg/L

Date Prepared: 05/14/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	106	250	360	102	80-120	

Lab Batch #: 941317

Date Analyzed: 05/19/2014

QC- Sample ID: 485208-001 S

Reporting Units: mg/L

Date Prepared: 05/19/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	108	109	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.7	109	110	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 485208

Project ID: 073018

Lab Batch ID: 941155

QC- Sample ID: 485208-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/16/2014

Date Prepared: 05/15/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.102	102	0.100	0.0992	99	3	70-125	25	
Toluene	<0.00100	0.100	0.100	100	0.100	0.0981	98	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.106	106	0.100	0.104	104	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.216	108	0.200	0.212	106	2	70-131	25	
o-Xylene	<0.000700	0.100	0.110	110	0.100	0.108	108	2	71-133	25	

Lab Batch ID: 940957

QC- Sample ID: 485208-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/12/2014

Date Prepared: 05/12/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.00930	0.200	0.235	113	0.200	0.238	114	1	80-120	20	

Lab Batch ID: 941355

QC- Sample ID: 485208-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/19/2014

Date Prepared: 05/17/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	0.00904	1.00	0.988	98	1.00	0.994	98	1	75-125	20	
Chromium	0.00796	1.00	0.999	99	1.00	1.01	100	1	75-125	20	
Iron	<0.0283	5.00	4.70	94	5.00	4.64	93	1	75-125	20	
Manganese	<0.00316	1.00	1.01	101	1.00	1.02	102	1	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 485208

Lab Batch #: 941044

Project ID: 073018

Date Analyzed: 05/15/2014 17:57

Date Prepared: 05/15/2014

Analyst: ANS

QC- Sample ID: 485067-002 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	231000	232000	0	10	

Lab Batch #: 941044

Date Analyzed: 05/15/2014 17:57

Date Prepared: 05/15/2014

Analyst: ANS

QC- Sample ID: 485198-006 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	2000	1980	1	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

Company-City CRA - Midland Phone 432-686-0086				Lab Only: 485208																																																											
Project Name-Location N. Eunice, NM ☐ Previously done at XENCO Project ID				TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.																																																											
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other Mike Wisniowiecki				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="12">Remarks</th> </tr> <tr> <td colspan="12" style="height: 100px; vertical-align: top;"> VOA: Full-List BTEX-MTBE EtOH Oxyg VOAs VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM 8310 8270 TX-1005 DRO GRO MA EPH MA VPH SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL OC Pesticides PCBs Herbicides OP Pesticides Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2 SPLP - TCLP (Metals) VOCs SVOCs Pest. Herb. PCBs) EDB / DBCP Dissolved metals 6010B TDS SM 2540C Chlorides E300 TPH GRO + DRO 8015 mod BTEX 8021B Hex chion 7190A TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Addn: PAH above mg/L W, mg/Kg S Highest Hit Hold Samples (Surcharges will apply and are pre-approved) Sample Clean-ups are pre-approved as needed </td> </tr> <tr><td colspan="12"></td></tr> <tr><td colspan="12"></td></tr> </table>												Remarks												VOA: Full-List BTEX-MTBE EtOH Oxyg VOAs VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM 8310 8270 TX-1005 DRO GRO MA EPH MA VPH SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL OC Pesticides PCBs Herbicides OP Pesticides Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2 SPLP - TCLP (Metals) VOCs SVOCs Pest. Herb. PCBs) EDB / DBCP Dissolved metals 6010B TDS SM 2540C Chlorides E300 TPH GRO + DRO 8015 mod BTEX 8021B Hex chion 7190A TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Addn: PAH above mg/L W, mg/Kg S Highest Hit Hold Samples (Surcharges will apply and are pre-approved) Sample Clean-ups are pre-approved as needed																																			
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E-mail Results to ☒ PM and mwisniowiecki@craworld.com Fax No: 432-686-0186																																																															
Invoice to: ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O. Bill to:																																																															
Quote/Pricing: P.O. No: ☐ Call for P.O.																																																															
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP																																																															
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:																																																															
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)																																																															
Sampler Name Chris Evans Signature Chris Evans																																																															
Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List BTEX-MTBE EtOH Oxyg VOAs	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals) VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	Dissolved metals 6010B	TDS SM 2540C	Chlorides E300	TPH GRO + DRO 8015 mod	BTEX 8021B	Hex chion 7190A	TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Adn:	Date	Rev. by:	From:																														
1 MW-32 051214	5-12-14	1135		W		X	6														X	X	X	X	X	X																																					
2 MW-68 051214	5-12-14	1330		W		X	6														X	X	X	X	X	X																																					
3 MW-31 051214	5-12-14	1425		W		X	6														X	X	X	X	X	X																																					
4 MW-60 051214	5-12-14	1520		W		X	6														X	X	X	X	X	X																																					
5 MW-30 051214	5-12-14	1640		W		X	6														X	X	X	X	X	X																																					
6 Trip blank	5-12-14	—		W			2																																																								
7																																																															
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9																																																															
10																																																															
Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time		Total Containers per COC:		Cooler Temp: °C																																																					
1) CE Chris Evans		5-12-14/1630		2) BR Bill Rhee		5-12-14 16:30		3)		Otherwise agreed on writing. Reports are the Intellectual Property of XENCO																																																					
2) BR Bill Rhee		5-12-14/19:10		4) Minerals		5/12/14 19:10		4)		until paid. Samples will be held 30 days after final report is e-mailed unless																																																					
3) BR Bill Rhee		5-12-14/19:10		5) Minerals		5/12/14 19:10		5)		hereby requested. Rush Charges and Collection Fees are pre-approved if needed.																																																					

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

Committed to Excellence in Service and Quality

www.xenco.com

Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/12/2014 07:10:00 PM

Work Order #: 485208

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by:


Kelsey Brooks

Date: 05/13/2014

Checklist reviewed by:


Kelsey Brooks

Date: 05/13/2014

Analytical Report 485266

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

20-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



20-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485266**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485266. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485266 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 485266



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
LORD WW	W	05-09-14 00:00		485266-001



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 485266

Report Date: 20-MAY-14
Date Received: 05/13/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-941359 Dissolved Metals per ICP by SW846 6010B

Chromium detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples affected are: 485266-001.



Certificate of Analytical Results

485266



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **LORD WW**

Matrix: Water

Sample Depth:

Lab Sample Id: 485266-001

Date Collected: 05.09.14 00.00

Date Received: 05.13.14 13.54

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941044

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2400	5.00	5.00	mg/L	05.15.14 17:57		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941041

Date Prep: 05.15.14 09.22

Prep seq: 655339

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1640	50.0	1.40	mg/L	05.15.14 09:22		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941359

Date Prep: 05.17.14 13.35

Subcontractor: SUB: E871002

Prep seq: 655614

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.19.14 20:26	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 20:26	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 20:26	U	1
Manganese	7439-96-5	0.0822	0.0200	0.00316	mg/L	05.19.14 20:26		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940954

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.09.14 18:30	U	5



Certificate of Analytical Results

485266



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **LORD WW**

Matrix: Water

Sample Depth:

Lab Sample Id: 485266-001

Date Collected: 05.09.14 00.00

Date Received: 05.13.14 13.54

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941317

Date Prep: 05.19.14 13.00

Prep seq: 655706

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.19.14 23:31	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.19.14 23:31	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.19.14 23:31	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.19.14 23:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	113	70 - 135	%		
o-Terphenyl	123	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941148

Date Prep: 05.15.14 16.00

Prep seq: 655595

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 03:13	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 03:13	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 03:13	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 03:13	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 03:13	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.16.14 03:13	U	
Total BTEX		ND		0.000700	mg/L	05.16.14 03:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		

Certificate of Analytical Results

485266

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655339-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655339-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: RKO	% Moist:	Tech: RKO
Seq Number: 941041	Date Prep: 05.14.14 18.59	
	Prep seq: 655339	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.14.14 18:59	U	1

Sample Id: 655595-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655595-1-BLK	Date Collected:	Date Received:
Analytical Method: BTEX by EPA 8021B		Prep Method: 5030B
Analyst: ARM	% Moist:	Tech: ARM
Seq Number: 941148	Date Prep: 05.15.14 16.00	
	Prep seq: 655595	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.15.14 20:05	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.15.14 20:05	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.15.14 20:05	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.15.14 20:05	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.15.14 20:05	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		

Sample Id: 655614-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655614-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: MKO	% Moist:	Tech: MKO
Seq Number: 941359	Date Prep: 05.17.14 13.35	
Subcontractor: SUB: E871002	Prep seq: 655614	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.19.14 19:01	U	1
Chromium	7440-47-3	0.00479	0.0100	0.000811	mg/L	05.19.14 19:01	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 19:01	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 19:01	U	1



Certificate of Analytical Results

485266



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655706-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655706-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941317

Date Prep: 05.19.14 13.00

Prep seq: 655706

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.15	0.760	mg/L	05.19.14 19:31	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.15	0.760	mg/L	05.19.14 19:31	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.15	0.760	mg/L	05.19.14 19:31	U	1
Total TPH	PHC635	ND		0.760	mg/L	05.19.14 19:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	129	70 - 135	%		
o-Terphenyl	126	70 - 135	%		

Sample Id: 940954-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 940954-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940954

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.09.14 18:30	U	1

Sample Id: 941044-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 941044-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941044

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.15.14 17:57	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Sample Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485266,

Project ID: 073018

Lab Batch #: 941148

Sample: 655595-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/15/14 20:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 941148

Sample: 655595-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/15/14 20:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0332	0.0300	111	80-120	

Lab Batch #: 941148

Sample: 655595-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/15/14 20:38

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0340	0.0300	113	80-120	

Lab Batch #: 941148

Sample: 485068-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/15/14 20:54

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0347	0.0300	116	80-120	

Lab Batch #: 941148

Sample: 485068-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/15/14 21:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0345	0.0300	115	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485266,

Project ID: 073018

Lab Batch #: 941317

Sample: 655706-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/19/14 19:31		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.89	7.69	129	70-135
o-Terphenyl		4.86	3.85	126	70-135

Lab Batch #: 941317

Sample: 655706-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/19/14 19:56		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.8	9.87	130	70-135
o-Terphenyl		6.24	4.93	127	70-135

Lab Batch #: 941317

Sample: 655706-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/19/14 20:20		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.0	9.87	122	70-135
o-Terphenyl		6.36	4.94	129	70-135

Lab Batch #: 941317

Sample: 485208-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/19/14 21:08		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.8	9.87	130	70-135
o-Terphenyl		6.36	4.94	129	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 485266

Project ID:

073018

Lab Batch #: 940954

Sample: 940954-1-BKS

Matrix: Water

Date Analyzed: 05/09/2014

Date Prepared: 05/09/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0391	98	80-120	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 485266

Project ID: 073018

Analyst: ARM

Date Prepared: 05/15/2014

Date Analyzed: 05/15/2014

Lab Batch ID: 941148

Sample: 655595-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.103	103	0.100	0.106	106	3	70-125	25	
Toluene	<0.00100	0.100	0.104	104	0.100	0.106	106	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.111	111	0.100	0.114	114	3	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.229	115	0.200	0.235	118	3	70-131	25	
o-Xylene	<0.000700	0.100	0.115	115	0.100	0.118	118	3	71-133	25	

Analyst: MKO

Date Prepared: 05/17/2014

Date Analyzed: 05/19/2014

Lab Batch ID: 941359

Sample: 655614-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.940	94	1.00	0.939	94	0	80-120	20	
Chromium	0.00479	1.00	0.998	100	1.00	0.995	100	0	80-120	20	
Iron	<0.0283	5.00	5.17	103	5.00	5.14	103	1	80-120	20	
Manganese	<0.00316	1.00	0.998	100	1.00	0.998	100	0	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 485266

Project ID: 073018

Analyst: RKO

Date Prepared: 05/14/2014

Date Analyzed: 05/14/2014

Lab Batch ID: 941041

Sample: 655339-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	24.9	100	25.0	24.2	97	3	80-120	20	

Analyst: ANS

Date Prepared: 05/15/2014

Date Analyzed: 05/15/2014

Lab Batch ID: 941044

Sample: 941044-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1020	102	1000	1030	103	1	80-120	10	

Analyst: ARM

Date Prepared: 05/19/2014

Date Analyzed: 05/19/2014

Lab Batch ID: 941317

Sample: 655706-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	107	108	98.7	106	107	1	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	106	107	98.7	101	102	5	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Work Order #: 485266

Lab Batch #: 941041

Date Analyzed: 05/14/2014

QC- Sample ID: 484976-001 S

Reporting Units: mg/L

Date Prepared: 05/14/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	1190	2500	4090	116	80-120	

Lab Batch #: 941041

Date Analyzed: 05/14/2014

QC- Sample ID: 485208-003 S

Reporting Units: mg/L

Date Prepared: 05/14/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	106	250	360	102	80-120	

Lab Batch #: 941317

Date Analyzed: 05/19/2014

QC- Sample ID: 485208-001 S

Reporting Units: mg/L

Date Prepared: 05/19/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	108	109	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.7	109	110	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 485266

Project ID: 073018

Lab Batch ID: 941148

QC- Sample ID: 485068-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/15/2014

Date Prepared: 05/15/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.105	105	0.100	0.111	111	6	70-125	25	
Toluene	<0.00100	0.100	0.106	106	0.100	0.112	112	6	70-125	25	
Ethylbenzene	<0.000800	0.100	0.114	114	0.100	0.119	119	4	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.234	117	0.200	0.245	123	5	70-131	25	
o-Xylene	<0.000700	0.100	0.117	117	0.100	0.123	123	5	71-133	25	

Lab Batch ID: 940954

QC- Sample ID: 485080-002 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/09/2014

Date Prepared: 05/09/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.0205	0.200	0.221	100	0.200	0.224	102	1	80-120	20	

Lab Batch ID: 941359

QC- Sample ID: 485279-001 S

Batch #: 1 **Matrix:** Ground Water

Date Analyzed: 05/19/2014

Date Prepared: 05/17/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	0.00729	1.00	0.921	91	1.00	0.961	95	4	75-125	20	
Chromium	<0.000811	1.00	0.949	95	1.00	0.991	99	4	75-125	20	
Iron	2.22	5.00	6.94	94	5.00	7.15	99	3	75-125	20	
Manganese	2.35	1.00	3.23	88	1.00	3.34	99	3	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 485266

Lab Batch #: 941044

Project ID: 073018

Date Analyzed: 05/15/2014 17:57

Date Prepared: 05/15/2014

Analyst: ANS

QC- Sample ID: 485067-002 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	231000	232000	0	10	

Lab Batch #: 941044

Date Analyzed: 05/15/2014 17:57

Date Prepared: 05/15/2014

Analyst: ANS

QC- Sample ID: 485198-006 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	2000	1980	1	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

Analytical Report 485304

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

21-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



21-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485304**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485304. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485304 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Dup-4 051314	W	05-13-14 00:00		485304-001
MW-61 051314	W	05-13-14 10:55		485304-002
MW-69 051314	W	05-13-14 12:00		485304-003
MW-59 051314	W	05-13-14 13:00		485304-004
MW-58 051314	W	05-13-14 13:50		485304-005
MW-63A 051314	W	05-13-14 14:55		485304-006
MW-62A 051314	W	05-13-14 15:55		485304-007
MW-43 051314	W	05-13-14 16:45		485304-008
TRIP BLANK	W	05-13-14 00:00		485304-009



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 485304

Report Date: 21-MAY-14
Date Received: 05/13/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-941107 Inorganic Anions by EPA 300/300.1

Chloride recovered below QC limits in the Matrix Spike. Samples affected are: 485396-001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

Batch: LBA-941359 Dissolved Metals per ICP by SW846 6010B

Chromium detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Samples affected are: 485304-005, -003, -001, -008, -002, -007, -004, -006.



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **Dup-4 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-001

Date Collected: 05.13.14 00.00

Date Received: 05.13.14 16.50

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 15.47

Prep seq: 655485

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	273	10.0	0.280	mg/L	05.15.14 15:47		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941087

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1900	5.00	5.00	mg/L	05.15.14 00:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941359

Date Prep: 05.17.14 13.35

Subcontractor: SUB: E871002

Prep seq: 655614

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0114	0.0200	0.00550	mg/L	05.19.14 20:32	J	1
Chromium	7440-47-3	0.104	0.0100	0.000811	mg/L	05.19.14 20:32		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 20:32	U	1
Manganese	7439-96-5	0.0609	0.0200	0.00316	mg/L	05.19.14 20:32		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940958

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.111	0.0100	0.00500	mg/L	05.13.14 19:10		1



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **Dup-4 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-001

Date Collected: 05.13.14 00.00

Date Received: 05.13.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941309

Date Prep: 05.16.14 17.00

Prep seq: 655696

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.17.14 00:26	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.17.14 00:26	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.17.14 00:26	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.17.14 00:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	124	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941273

Date Prep: 05.16.14 17.00

Prep seq: 655671

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.17.14 00:47	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.17.14 00:47	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.17.14 00:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.17.14 00:47	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.17.14 00:47	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.17.14 00:47	U	
Total BTEX		ND		0.000700	mg/L	05.17.14 00:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-61 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-002

Date Collected: 05.13.14 10:55

Date Received: 05.13.14 16:50

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 16:10

Prep seq: 655485

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	272	10.0	0.280	mg/L	05.15.14 16:10		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941087

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1570	5.00	5.00	mg/L	05.15.14 00:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941359

Date Prep: 05.17.14 13:35

Subcontractor: SUB: E871002

Prep seq: 655614

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00808	0.0200	0.00550	mg/L	05.19.14 20:39	J	1
Chromium	7440-47-3	0.110	0.0100	0.000811	mg/L	05.19.14 20:39		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 20:39	U	1
Manganese	7439-96-5	0.0652	0.0200	0.00316	mg/L	05.19.14 20:39		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940958

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.111	0.0100	0.00500	mg/L	05.13.14 19:10		1



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-61 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-002

Date Collected: 05.13.14 10:55

Date Received: 05.13.14 16:50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941309

Date Prep: 05.16.14 17:00

Prep seq: 655696

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.17.14 01:17	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.17.14 01:17	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.17.14 01:17	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.17.14 01:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941273

Date Prep: 05.16.14 17:00

Prep seq: 655671

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.17.14 01:04	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.17.14 01:04	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.17.14 01:04	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.17.14 01:04	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.17.14 01:04	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.17.14 01:04	U	
Total BTEX		ND		0.000700	mg/L	05.17.14 01:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	91	80 - 120	%		



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-69 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-003

Date Collected: 05.13.14 12.00

Date Received: 05.13.14 16.50

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 16.32

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	817	20.0	0.560	mg/L	05.15.14 16:32		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941087

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1460	5.00	5.00	mg/L	05.15.14 00:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941359

Date Prep: 05.17.14 13.35

Subcontractor: SUB: E871002

Prep seq: 655614

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0132	0.0200	0.00550	mg/L	05.19.14 20:45	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 20:45	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 20:45	U	1
Manganese	7439-96-5	0.576	0.0200	0.00316	mg/L	05.19.14 20:45		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940958

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.13.14 19:10	U	1



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-69 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-003

Date Collected: 05.13.14 12.00

Date Received: 05.13.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941309

Date Prep: 05.16.14 17.00

Prep seq: 655696

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.17.14 01:41	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.17.14 01:41	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.17.14 01:41	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.17.14 01:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	114	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941273

Date Prep: 05.16.14 17.00

Prep seq: 655671

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.17.14 01:20	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.17.14 01:20	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.17.14 01:20	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.17.14 01:20	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.17.14 01:20	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.17.14 01:20	U	
Total BTEX		ND		0.000700	mg/L	05.17.14 01:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	81	80 - 120	%		
4-Bromofluorobenzene	90	80 - 120	%		

Certificate of Analytical Results

485304

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-59 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-004

Date Collected: 05.13.14 13.00

Date Received: 05.13.14 16.50

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 16.55

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	133	5.00	0.140	mg/L	05.15.14 16:55		5

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941087

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	661	5.00	5.00	mg/L	05.15.14 00:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941359

Date Prep: 05.17.14 13.35

Subcontractor: SUB: E871002

Prep seq: 655614

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0131	0.0200	0.00550	mg/L	05.19.14 20:52	J	1
Chromium	7440-47-3	0.00609	0.0100	0.000811	mg/L	05.19.14 20:52	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 20:52	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 20:52	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940958

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00810	0.0100	0.00500	mg/L	05.13.14 19:10	J	1



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-59 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-004

Date Collected: 05.13.14 13.00

Date Received: 05.13.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941309

Date Prep: 05.16.14 17.00

Prep seq: 655696

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.17.14 02:04	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.17.14 02:04	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.17.14 02:04	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.17.14 02:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	129	70 - 135	%		
o-Terphenyl	128	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941273

Date Prep: 05.16.14 17.00

Prep seq: 655671

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.17.14 02:26	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.17.14 02:26	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.17.14 02:26	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.17.14 02:26	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.17.14 02:26	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.17.14 02:26	U	
Total BTEX		ND		0.000700	mg/L	05.17.14 02:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	91	80 - 120	%		

Certificate of Analytical Results

485304

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-58 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-005

Date Collected: 05.13.14 13.50

Date Received: 05.13.14 16.50

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 17.18

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	175	10.0	0.280	mg/L	05.15.14 17:18		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941087

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	909	5.00	5.00	mg/L	05.15.14 00:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941359

Date Prep: 05.17.14 13.35

Subcontractor: SUB: E871002

Prep seq: 655614

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0118	0.0200	0.00550	mg/L	05.19.14 20:58	J	1
Chromium	7440-47-3	0.00788	0.0100	0.000811	mg/L	05.19.14 20:58	BJ	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 20:58	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 20:58	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940958

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00820	0.0100	0.00500	mg/L	05.13.14 19:10	J	1



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-58 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-005

Date Collected: 05.13.14 13:50

Date Received: 05.13.14 16:50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941309

Date Prep: 05.16.14 17:00

Prep seq: 655696

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 16:28	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 16:28	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 16:28	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 16:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	125	70 - 135	%		
o-Terphenyl	124	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941273

Date Prep: 05.16.14 17:00

Prep seq: 655671

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.17.14 02:43	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.17.14 02:43	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.17.14 02:43	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.17.14 02:43	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.17.14 02:43	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.17.14 02:43	U	
Total BTEX		ND		0.000700	mg/L	05.17.14 02:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	91	80 - 120	%		

Certificate of Analytical Results

485304

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-63A 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-006

Date Collected: 05.13.14 14.55

Date Received: 05.13.14 16.50

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 18.26

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	51.1	5.00	0.140	mg/L	05.15.14 18:26		5

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941087

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	537	5.00	5.00	mg/L	05.15.14 00:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941359

Date Prep: 05.17.14 13.35

Subcontractor: SUB: E871002

Prep seq: 655614

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0209	0.0200	0.00550	mg/L	05.19.14 21:05		1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 21:05	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 21:05	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 21:05	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940958

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00710	0.0100	0.00500	mg/L	05.13.14 19:10	J	1



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-63A 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-006

Date Collected: 05.13.14 14:55

Date Received: 05.13.14 16:50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941309

Date Prep: 05.16.14 17:00

Prep seq: 655696

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.17.14 12:22	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.17.14 12:22	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.17.14 12:22	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.17.14 12:22	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	115	70 - 135	%		
o-Terphenyl	127	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941273

Date Prep: 05.16.14 17:00

Prep seq: 655671

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.17.14 02:59	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.17.14 02:59	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.17.14 02:59	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.17.14 02:59	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.17.14 02:59	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.17.14 02:59	U	
Total BTEX		ND		0.000700	mg/L	05.17.14 02:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	91	80 - 120	%		

Certificate of Analytical Results

485304

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-62A 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-007

Date Collected: 05.13.14 15:55

Date Received: 05.13.14 16:50

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 18:48

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	70.2	5.00	0.140	mg/L	05.15.14 18:48		5

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941087

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	604	5.00	5.00	mg/L	05.15.14 00:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941359

Date Prep: 05.17.14 13:35

Subcontractor: SUB: E871002

Prep seq: 655614

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0179	0.0200	0.00550	mg/L	05.19.14 21:11	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 21:11	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 21:11	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 21:11	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940958

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.13.14 19:10	U	1



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-62A 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-007

Date Collected: 05.13.14 15:55

Date Received: 05.13.14 16:50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941309

Date Prep: 05.16.14 17:00

Prep seq: 655696

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.17.14 12:49	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.17.14 12:49	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.17.14 12:49	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.17.14 12:49	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941273

Date Prep: 05.16.14 17:00

Prep seq: 655671

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.17.14 03:16	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.17.14 03:16	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.17.14 03:16	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.17.14 03:16	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.17.14 03:16	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.17.14 03:16	U	
Total BTEX		ND		0.000700	mg/L	05.17.14 03:16	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		

Certificate of Analytical Results

485304

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-43 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-008

Date Collected: 05.13.14 16.45

Date Received: 05.13.14 16.50

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 19.11

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	401	20.0	0.560	mg/L	05.15.14 19:11		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941087

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1600	5.00	5.00	mg/L	05.15.14 00:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941359

Date Prep: 05.17.14 13.35

Subcontractor: SUB: E871002

Prep seq: 655614

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0146	0.0200	0.00550	mg/L	05.19.14 21:18	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.19.14 21:18	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 21:18	U	1
Manganese	7439-96-5	0.955	0.0200	0.00316	mg/L	05.19.14 21:18		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940958

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.13.14 19:10	U	1



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-43 051314**

Matrix: Water

Sample Depth:

Lab Sample Id: 485304-008

Date Collected: 05.13.14 16.45

Date Received: 05.13.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941309

Date Prep: 05.16.14 17.00

Prep seq: 655696

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.17.14 13:14	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.17.14 13:14	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.17.14 13:14	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.17.14 13:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	117	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941273

Date Prep: 05.16.14 17.00

Prep seq: 655671

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.17.14 03:32	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.17.14 03:32	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.17.14 03:32	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.17.14 03:32	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.17.14 03:32	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.17.14 03:32	U	
Total BTEX		ND		0.000700	mg/L	05.17.14 03:32	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	83	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		

Certificate of Analytical Results

485304

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: TRIP BLANK	Matrix: Water	Sample Depth:
Lab Sample Id: 485304-009	Date Collected: 05.13.14 00.00	Date Received: 05.13.14 16.50
Analytical Method: BTEX by EPA 8021B		Prep Method: 5030B
Analyst: ARM	% Moist:	Tech: ARM
Seq Number: 941273	Date Prep: 05.16.14 17.00	
	Prep seq: 655671	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.17.14 02:10	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.17.14 02:10	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.17.14 02:10	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.17.14 02:10	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.17.14 02:10	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.17.14 02:10	U	
Total BTEX		ND		0.000700	mg/L	05.17.14 02:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	80 - 120	%		
4-Bromofluorobenzene	91	80 - 120	%		

Sample Id: 655485-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655485-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: RKO	% Moist:	Tech: RKO
Seq Number: 941107	Date Prep: 05.15.14 13.54	
	Prep seq: 655485	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.15.14 13:54	U	1

Sample Id: 655614-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655614-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: MKO	% Moist:	Tech: MKO
Seq Number: 941359	Date Prep: 05.17.14 13.35	
Subcontractor: SUB: E871002	Prep seq: 655614	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.19.14 19:01	U	1
Chromium	7440-47-3	0.00479	0.0100	0.000811	mg/L	05.19.14 19:01	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.19.14 19:01	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.19.14 19:01	U	1



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655671-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655671-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941273

Date Prep: 05.16.14 17.00

Prep seq: 655671

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.16.14 21:12	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.16.14 21:12	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.16.14 21:12	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.16.14 21:12	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.16.14 21:12	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	81	80 - 120	%		
4-Bromofluorobenzene	87	80 - 120	%		

Sample Id: 655696-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655696-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941309

Date Prep: 05.16.14 17.00

Prep seq: 655696

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.16.14 23:14	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.16.14 23:14	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.16.14 23:14	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.16.14 23:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	111	70 - 135	%		
o-Terphenyl	118	70 - 135	%		



Certificate of Analytical Results

485304



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **940958-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 940958-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 940958

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.13.14 19:10	U	1

Sample Id: **941087-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 941087-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941087

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.15.14 00:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485304,

Project ID: 073018

Lab Batch #: 941273

Sample: 655671-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/16/14 21:12		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0242	0.0300	81	80-120
4-Bromofluorobenzene		0.0262	0.0300	87	80-120

Lab Batch #: 941273

Sample: 655671-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/16/14 21:29		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0254	0.0300	85	80-120
4-Bromofluorobenzene		0.0302	0.0300	101	80-120

Lab Batch #: 941273

Sample: 655671-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/16/14 21:45		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0259	0.0300	86	80-120
4-Bromofluorobenzene		0.0301	0.0300	100	80-120

Lab Batch #: 941273

Sample: 485304-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/16/14 22:02		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0260	0.0300	87	80-120
4-Bromofluorobenzene		0.0309	0.0300	103	80-120

Lab Batch #: 941273

Sample: 485304-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/16/14 22:18		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0267	0.0300	89	80-120
4-Bromofluorobenzene		0.0315	0.0300	105	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485304,

Project ID: 073018

Lab Batch #: 941309

Sample: 655696-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/16/14 23:14		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.0	9.88	111	70-135
o-Terphenyl		5.81	4.94	118	70-135

Lab Batch #: 941309

Sample: 655696-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/16/14 23:38		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.6	9.87	118	70-135
o-Terphenyl		5.85	4.94	118	70-135

Lab Batch #: 941309

Sample: 655696-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/17/14 00:02		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.7	9.88	129	70-135
o-Terphenyl		5.65	4.94	114	70-135

Lab Batch #: 941309

Sample: 485304-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/17/14 00:53		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.1	9.87	102	70-135
o-Terphenyl		4.86	4.93	99	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 485304

Project ID:

073018

Lab Batch #: 940958

Sample: 940958-1-BKS

Matrix: Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0380	95	80-120	

Lab Batch #: 941087

Sample: 941087-1-BKS

Matrix: Water

Date Analyzed: 05/15/2014

Date Prepared: 05/15/2014

Analyst: RKO

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Total dissolved solids	<5.00	1000	979	98	80-120	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 485304

Project ID: 073018

Analyst: ARM

Date Prepared: 05/16/2014

Date Analyzed: 05/16/2014

Lab Batch ID: 941273

Sample: 655671-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0939	94	0.100	0.0966	97	3	70-125	25	
Toluene	<0.00100	0.100	0.0948	95	0.100	0.0977	98	3	70-125	25	
Ethylbenzene	<0.000800	0.100	0.100	100	0.100	0.103	103	3	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.207	104	0.200	0.212	106	2	70-131	25	
o-Xylene	<0.000700	0.100	0.103	103	0.100	0.106	106	3	71-133	25	

Analyst: MKO

Date Prepared: 05/17/2014

Date Analyzed: 05/19/2014

Lab Batch ID: 941359

Sample: 655614-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.940	94	1.00	0.939	94	0	80-120	20	
Chromium	0.00479	1.00	0.998	100	1.00	0.995	100	0	80-120	20	
Iron	<0.0283	5.00	5.17	103	5.00	5.14	103	1	80-120	20	
Manganese	<0.00316	1.00	0.998	100	1.00	0.998	100	0	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 485304

Project ID: 073018

Analyst: RKO

Date Prepared: 05/15/2014

Date Analyzed: 05/15/2014

Lab Batch ID: 941107

Sample: 655485-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	25.5	102	25.0	23.8	95	7	80-120	20	

Analyst: ARM

Date Prepared: 05/16/2014

Date Analyzed: 05/16/2014

Lab Batch ID: 941309

Sample: 655696-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	107	108	98.8	103	104	4	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.7	106	107	98.8	108	109	2	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Work Order #: 485304

Lab Batch #: 941107

Date Analyzed: 05/15/2014

QC- Sample ID: 485396-001 S

Reporting Units: mg/L

Date Prepared: 05/15/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	208	125	298	72	80-120	X

Lab Batch #: 941107

Date Analyzed: 05/15/2014

QC- Sample ID: 485470-002 S

Reporting Units: mg/L

Date Prepared: 05/15/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	602	250	737	54	80-120	X

Lab Batch #: 941309

Date Analyzed: 05/17/2014

QC- Sample ID: 485304-001 S

Reporting Units: mg/L

Date Prepared: 05/16/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	87.8	89	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	92.1	93	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 485304

Project ID: 073018

Lab Batch ID: 941273

QC- Sample ID: 485304-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/16/2014

Date Prepared: 05/16/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0964	96	0.100	0.0991	99	3	70-125	25	
Toluene	<0.00100	0.100	0.0972	97	0.100	0.0995	100	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.104	104	0.100	0.106	106	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.213	107	0.200	0.217	109	2	70-131	25	
o-Xylene	<0.000700	0.100	0.107	107	0.100	0.108	108	1	71-133	25	

Lab Batch ID: 940958

QC- Sample ID: 485304-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/13/2014

Date Prepared: 05/13/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.111	0.200	0.311	100	0.200	0.313	101	1	80-120	20	

Lab Batch ID: 941359

QC- Sample ID: 485279-001 S

Batch #: 1 **Matrix:** Ground Water

Date Analyzed: 05/19/2014

Date Prepared: 05/17/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	0.00729	1.00	0.921	91	1.00	0.961	95	4	75-125	20	
Chromium	<0.000811	1.00	0.949	95	1.00	0.991	99	4	75-125	20	
Iron	2.22	5.00	6.94	94	5.00	7.15	99	3	75-125	20	
Manganese	2.35	1.00	3.23	88	1.00	3.34	99	3	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 485304

Lab Batch #: 941087

Project ID: 073018

Date Analyzed: 05/15/2014 00:00

Date Prepared: 05/15/2014

Analyst: RKO

QC- Sample ID: 485304-008 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1600	1640	2	10	

Lab Batch #: 941087

Date Analyzed: 05/15/2014 00:00

Date Prepared: 05/15/2014

Analyst: RKO

QC- Sample ID: 485336-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	472	530	12	10	F

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Company-City		CRA - Midland		Phone		432-686-0086	
Project Name-Location		Previously done at XENCO		Project ID			
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other		Proj. Manager (PM)		Mike Wisniowiecki			
E-mail Results to		PM and		Fax No:		432-686-0186	
Invoice to		Accounting		Inc. Invoice with Final Report		Invoice must have a P.O.	
Quote/Pricing:		P.O. No:		Call for P.O.			
Reg Program:		UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP					
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:							
Special DLs (GW DW QAPP MDLs RLS See Lab PM Included Call PM)							
Sampler Name		Chris Evans		Signature		Chris Evans	
Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers
1 Duqo-4 051314	5-13-14	—		W	X	G	
2 MW-61 051314	5-13-14	1055		W	X	G	
3 MW-69 051314	5-13-14	1200		W	X	G	
4 MW-59 051314	5-13-14	1300		W	X	G	
5 MW-58 051314	5-13-14	1350		W	X	G	
6 MW-63A 051314	5-13-14	1455		W	X	G	
7 MW-62A 051314	5-13-14	1555		W	X	G	
8 MW-43 051314	5-13-14	1645		W	X	G	
9 Trip blank	5-13-14	—		W			2
10							
Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time	
1) CE Chris Evans		5/13/14 1650		2) Julian Martinez		5-13-14 1650	
3)				4)			
5)				6)			
Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)		Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tediator Bag (B), Various (V), Other		Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)		Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)	
TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.		Dissolved Metals 6010B		TDS 5M2540C		Chlorides E300	
TX-1005 DRO GRO MA EPH MA VPH		TPH GRO + DRO 8015 mod		BTEX 8021B		Hex chrom 7196A	
SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL		TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d		Addn: PAH above mg/L W, mg/Kg S Highest Hit		Hold Samples (Surcharges will apply and are pre-approved)	
OC Pesticides PCBs Herbicides OP Pesticides		Sample Clean-ups are pre-approved as needed					
Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2		Addn:		Date		Rcv. by:	
SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)							
EDB / DBCP							
Total Containers per COC:		Cooler Temp: °C					
Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.							



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/13/2014 04:50:00 PM

Work Order #: 485304

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	No
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/14/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/14/2014

Analytical Report 485531

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

22-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



22-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485531**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485531. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485531 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-56SA 051514	W	05-15-14 10:40		485531-001
MW-54SA 051514	W	05-15-14 11:40		485531-002
MW-515SA 051514	W	05-15-14 12:25		485531-003
MW-52SA 051514	W	05-15-14 13:15		485531-004
MW-49SA 051514	W	05-15-14 14:20		485531-005
MW-48SA 051514	W	05-15-14 15:20		485531-006
DUP-6 051514	W	05-15-14 00:00		485531-007
MW-67SA 051514	W	05-15-14 09:30		485531-008
MW-79SA 051514	W	05-15-14 10:15		485531-009
MW-78SA 051514	W	05-15-14 11:10		485531-010
MW-53SA 051514	W	05-15-14 12:05		485531-011
MW--66SA 051514	W	05-15-14 14:20		485531-012
MW-72SA 051514	W	05-15-14 15:25		485531-013
TRIP BLANK	W	05-15-14 00:00		485531-014



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 485531

Report Date: 22-MAY-14
Date Received: 05/15/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-941620 Dissolved Metals per ICP by SW846 6010B

Arsenic, Manganese detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples affected are: 485531-006, -010, -002, -004, -013, -001, -007, -009, -011, -005, -012, -003, -008.



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-56SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-001

Date Collected: 05.15.14 10.40

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3550	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941614

Date Prep: 05.21.14 03.20

Prep seq: 655842

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1320	100	2.80	mg/L	05.21.14 03:20		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0186	0.0200	0.00550	mg/L	05.22.14 00:23	BJ	1
Chromium	7440-47-3	0.370	0.0100	0.000811	mg/L	05.22.14 00:23		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 00:23	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.22.14 00:23	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.392	0.0100	0.00500	mg/L	05.15.14 19:20		1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-56SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-001

Date Collected: 05.15.14 10.40

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.20.14 20:30	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.20.14 20:30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.20.14 20:30	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.20.14 20:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	127	70 - 135	%		
o-Terphenyl	126	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.20.14 17:14	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.20.14 17:14	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.20.14 17:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.20.14 17:14	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.20.14 17:14	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.20.14 17:14	U	
Total BTEX		ND		0.000700	mg/L	05.20.14 17:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-54SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-002

Date Collected: 05.15.14 11.40

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2330	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941614

Date Prep: 05.21.14 03.42

Prep seq: 655842

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	855	50.0	1.40	mg/L	05.21.14 03:42		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0157	0.0200	0.00550	mg/L	05.22.14 00:29	BJ	1
Chromium	7440-47-3	0.148	0.0100	0.000811	mg/L	05.22.14 00:29		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 00:29	U	1
Manganese	7439-96-5	0.00357	0.0200	0.00316	mg/L	05.22.14 00:29	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.148	0.0100	0.00500	mg/L	05.15.14 19:20		1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-54SA 051514

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-002

Date Collected: 05.15.14 11.40

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 21:17	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 21:17	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 21:17	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 21:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	115	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.20.14 17:31	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.20.14 17:31	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.20.14 17:31	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.20.14 17:31	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.20.14 17:31	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.20.14 17:31	U	
Total BTEX		ND		0.000700	mg/L	05.20.14 17:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	90	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-515SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-003

Date Collected: 05.15.14 12.25

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3530	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941614

Date Prep: 05.21.14 04.05

Prep seq: 655842

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1090	50.0	1.40	mg/L	05.21.14 04:05		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0165	0.0200	0.00550	mg/L	05.22.14 00:36	BJ	1
Chromium	7440-47-3	0.735	0.0100	0.000811	mg/L	05.22.14 00:36		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 00:36	U	1
Manganese	7439-96-5	0.00528	0.0200	0.00316	mg/L	05.22.14 00:36	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.753	0.0100	0.00500	mg/L	05.15.14 19:20		1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-515SA 051514

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-003

Date Collected: 05.15.14 12.25

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 21:40	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 21:40	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 21:40	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 21:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	116	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.20.14 17:47	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.20.14 17:47	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.20.14 17:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.20.14 17:47	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.20.14 17:47	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.20.14 17:47	U	
Total BTEX		ND		0.000700	mg/L	05.20.14 17:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	90	80 - 120	%		

Certificate of Analytical Results

485531

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-52SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-004

Date Collected: 05.15.14 13.15

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3840	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941614

Date Prep: 05.21.14 04.28

Prep seq: 655842

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1390	100	2.80	mg/L	05.21.14 04:28		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0171	0.0200	0.00550	mg/L	05.22.14 00:55	BJ	1
Chromium	7440-47-3	0.231	0.0100	0.000811	mg/L	05.22.14 00:55		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 00:55	U	1
Manganese	7439-96-5	0.00339	0.0200	0.00316	mg/L	05.22.14 00:55	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.240	0.0100	0.00500	mg/L	05.15.14 19:20		1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-52SA 051514

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-004

Date Collected: 05.15.14 13.15

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 22:05	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 22:05	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 22:05	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 22:05	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.20.14 18:04	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.20.14 18:04	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.20.14 18:04	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.20.14 18:04	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.20.14 18:04	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.20.14 18:04	U	
Total BTEX		ND		0.000700	mg/L	05.20.14 18:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-49SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-005

Date Collected: 05.15.14 14.20

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3360	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 16.52

Prep seq: 655844

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1320	100	2.80	mg/L	05.21.14 16:52		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0146	0.0200	0.00550	mg/L	05.22.14 01:02	BJ	1
Chromium	7440-47-3	0.126	0.0100	0.000811	mg/L	05.22.14 01:02		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 01:02	U	1
Manganese	7439-96-5	0.00558	0.0200	0.00316	mg/L	05.22.14 01:02	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.140	0.0100	0.00500	mg/L	05.15.14 19:20		1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-49SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-005

Date Collected: 05.15.14 14.20

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.20.14 22:30	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.20.14 22:30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.20.14 22:30	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.20.14 22:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	116	70 - 135	%		
o-Terphenyl	125	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.20.14 18:21	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.20.14 18:21	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.20.14 18:21	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.20.14 18:21	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.20.14 18:21	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.20.14 18:21	U	
Total BTEX		ND		0.000700	mg/L	05.20.14 18:21	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	91	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-48SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-006

Date Collected: 05.15.14 15.20

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2350	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 17.15

Prep seq: 655844

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	595	50.0	1.40	mg/L	05.21.14 17:15		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0179	0.0200	0.00550	mg/L	05.22.14 01:09	BJ	1
Chromium	7440-47-3	0.464	0.0100	0.000811	mg/L	05.22.14 01:09		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 01:09	U	1
Manganese	7439-96-5	0.00579	0.0200	0.00316	mg/L	05.22.14 01:09	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.492	0.0100	0.00500	mg/L	05.15.14 19:20		1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-48SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-006

Date Collected: 05.15.14 15.20

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.20.14 22:56	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.20.14 22:56	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.20.14 22:56	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.20.14 22:56	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	116	70 - 135	%		
o-Terphenyl	122	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.21.14 07:51	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.21.14 07:51	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.21.14 07:51	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.21.14 07:51	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.21.14 07:51	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.21.14 07:51	U	
Total BTEX		ND		0.000700	mg/L	05.21.14 07:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-6 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-007

Date Collected: 05.15.14 00.00

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2220	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 17.38

Prep seq: 655844

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	600	50.0	1.40	mg/L	05.21.14 17:38		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0180	0.0200	0.00550	mg/L	05.22.14 01:15	BJ	1
Chromium	7440-47-3	0.475	0.0100	0.000811	mg/L	05.22.14 01:15		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 01:15	U	1
Manganese	7439-96-5	0.0101	0.0200	0.00316	mg/L	05.22.14 01:15	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.494	0.0100	0.00500	mg/L	05.15.14 19:20		1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: DUP-6 051514

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-007

Date Collected: 05.15.14 00.00

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 23:19	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 23:19	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 23:19	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 23:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	108	70 - 135	%		
o-Terphenyl	117	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.21.14 08:08	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.21.14 08:08	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.21.14 08:08	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.21.14 08:08	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.21.14 08:08	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.21.14 08:08	U	
Total BTEX		ND		0.000700	mg/L	05.21.14 08:08	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-67SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-008

Date Collected: 05.15.14 09.30

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	942	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 18.00

Prep seq: 655844

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	158	10.0	0.280	mg/L	05.21.14 18:00		10

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0188	0.0200	0.00550	mg/L	05.22.14 01:22	BJ	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.22.14 01:22	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 01:22	U	1
Manganese	7439-96-5	0.00506	0.0200	0.00316	mg/L	05.22.14 01:22	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.15.14 19:20	U	1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-67SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-008

Date Collected: 05.15.14 09.30

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 23:42	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 23:42	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 23:42	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 23:42	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.21.14 08:24	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.21.14 08:24	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.21.14 08:24	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.21.14 08:24	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.21.14 08:24	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.21.14 08:24	U	
Total BTEX		ND		0.000700	mg/L	05.21.14 08:24	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-79SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-009

Date Collected: 05.15.14 10.15

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1440	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 18.23

Prep seq: 655844

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	329	20.0	0.560	mg/L	05.21.14 18:23		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0145	0.0200	0.00550	mg/L	05.22.14 01:28	BJ	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.22.14 01:28	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 01:28	U	1
Manganese	7439-96-5	0.0353	0.0200	0.00316	mg/L	05.22.14 01:28		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.15.14 19:20	U	1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-79SA 051514

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-009

Date Collected: 05.15.14 10.15

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.21.14 00:06	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.21.14 00:06	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.21.14 00:06	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.21.14 00:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	111	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.21.14 08:41	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.21.14 08:41	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.21.14 08:41	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.21.14 08:41	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.21.14 08:41	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.21.14 08:41	U	
Total BTEX		ND		0.000700	mg/L	05.21.14 08:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-78SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-010

Date Collected: 05.15.14 11.10

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	826	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 10.15

Prep seq: 655844

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	167	10.0	0.280	mg/L	05.21.14 10:15		10

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0174	0.0200	0.00550	mg/L	05.22.14 01:35	BJ	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.22.14 01:35	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 01:35	U	1
Manganese	7439-96-5	0.00443	0.0200	0.00316	mg/L	05.22.14 01:35	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.15.14 19:20	U	1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-78SA 051514

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-010

Date Collected: 05.15.14 11.10

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	05.21.14 00:30	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.21.14 00:30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.21.14 00:30	U	1
Total TPH	PHC635	ND		0.975	mg/L	05.21.14 00:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.21.14 08:57	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.21.14 08:57	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.21.14 08:57	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.21.14 08:57	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.21.14 08:57	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.21.14 08:57	U	
Total BTEX		ND		0.000700	mg/L	05.21.14 08:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	80 - 120	%		
4-Bromofluorobenzene	90	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-53SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-011

Date Collected: 05.15.14 12.05

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1280	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 11.00

Prep seq: 655844

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	351	20.0	0.560	mg/L	05.21.14 11:00		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0179	0.0200	0.00550	mg/L	05.22.14 01:41	BJ	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.22.14 01:41	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 01:41	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.22.14 01:41	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941498

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.15.14 19:20	U	1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-53SA 051514

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-011

Date Collected: 05.15.14 12.05

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.21.14 01:41	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.21.14 01:41	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.21.14 01:41	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.21.14 01:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	118	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.21.14 09:14	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.21.14 09:14	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.21.14 09:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.21.14 09:14	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.21.14 09:14	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.21.14 09:14	U	
Total BTEX		ND		0.000700	mg/L	05.21.14 09:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW--66SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-012

Date Collected: 05.15.14 14.20

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4100	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 11.23

Prep seq: 655844

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1410	100	2.80	mg/L	05.21.14 11:23		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0115	0.0200	0.00550	mg/L	05.22.14 01:48	BJ	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.22.14 01:48	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 01:48	U	1
Manganese	7439-96-5	1.10	0.0200	0.00316	mg/L	05.22.14 01:48		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941498

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.15.14 19:20	U	1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW--66SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-012

Date Collected: 05.15.14 14.20

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.21.14 02:04	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.21.14 02:04	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.21.14 02:04	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.21.14 02:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	116	70 - 135	%		
o-Terphenyl	124	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.21.14 09:31	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.21.14 09:31	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.21.14 09:31	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.21.14 09:31	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.21.14 09:31	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.21.14 09:31	U	
Total BTEX		ND		0.000700	mg/L	05.21.14 09:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-72SA 051514**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-013

Date Collected: 05.15.14 15.25

Date Received: 05.15.14 17.45

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1250	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 11.46

Prep seq: 655844

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	337	20.0	0.560	mg/L	05.21.14 11:46		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0177	0.0200	0.00550	mg/L	05.22.14 01:54	BJ	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.22.14 01:54	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.22.14 01:54	U	1
Manganese	7439-96-5	0.00767	0.0200	0.00316	mg/L	05.22.14 01:54	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941498

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.15.14 19:20	U	1



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-72SA 051514

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-013

Date Collected: 05.15.14 15.25

Date Received: 05.15.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.21.14 02:28	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.21.14 02:28	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.21.14 02:28	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.21.14 02:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.21.14 09:47	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.21.14 09:47	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.21.14 09:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.21.14 09:47	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.21.14 09:47	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.21.14 09:47	U	
Total BTEX		ND		0.000700	mg/L	05.21.14 09:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 485531-014

Date Collected: 05.15.14 00.00

Date Received: 05.15.14 17.45

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.21.14 07:34	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.21.14 07:34	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.21.14 07:34	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.21.14 07:34	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.21.14 07:34	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.21.14 07:34	U	
Total BTEX		ND		0.000700	mg/L	05.21.14 07:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		

Sample Id: **655798-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655798-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	05.20.14 19:17	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 19:17	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 19:17	U	1
Total TPH	PHC635	ND		0.975	mg/L	05.20.14 19:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	121	70 - 135	%		



Certificate of Analytical Results

485531



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655810-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655810-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941457

Date Prep: 05.20.14 11.00

Prep seq: 655810

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.20.14 13:38	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.20.14 13:38	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.20.14 13:38	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.20.14 13:38	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.20.14 13:38	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	81	80 - 120	%		
4-Bromofluorobenzene	83	80 - 120	%		

Sample Id: 655840-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655840-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941620

Date Prep: 05.21.14 09.00

Subcontractor: SUB: E871002

Prep seq: 655840

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00900	0.0200	0.00550	mg/L	05.21.14 23:04	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.21.14 23:04	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 23:04	U	1
Manganese	7439-96-5	0.00335	0.0200	0.00316	mg/L	05.21.14 23:04	J	1

Sample Id: 655842-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655842-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941614

Date Prep: 05.20.14 20.31

Prep seq: 655842

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.20.14 20:31	U	1

Certificate of Analytical Results

485531

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **655844-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655844-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 09.07

Prep seq: 655844

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.21.14 09:07	U	1

Sample Id: **941496-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 941496-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941496

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.15.14 19:20	U	1

Sample Id: **941498-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 941498-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941498

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.15.14 19:20	U	1

Sample Id: **941532-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 941532-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.21.14 16:28	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485531,

Project ID: 073018

Lab Batch #: 941457

Sample: 655810-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/20/14 13:38		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0243	0.0300	81	80-120
4-Bromofluorobenzene		0.0248	0.0300	83	80-120

Lab Batch #: 941457

Sample: 655810-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/20/14 13:55		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0271	0.0300	90	80-120
4-Bromofluorobenzene		0.0315	0.0300	105	80-120

Lab Batch #: 941457

Sample: 655810-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/20/14 14:12		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0274	0.0300	91	80-120
4-Bromofluorobenzene		0.0314	0.0300	105	80-120

Lab Batch #: 941457

Sample: 485531-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/20/14 14:28		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0278	0.0300	93	80-120
4-Bromofluorobenzene		0.0322	0.0300	107	80-120

Lab Batch #: 941457

Sample: 485531-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/20/14 14:45		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0281	0.0300	94	80-120
4-Bromofluorobenzene		0.0328	0.0300	109	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485531,

Project ID: 073018

Lab Batch #: 941450

Sample: 655798-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/20/14 19:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.1	9.87	112	70-135	
o-Terphenyl	5.99	4.94	121	70-135	

Lab Batch #: 941450

Sample: 655798-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/20/14 19:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.8	9.87	120	70-135	
o-Terphenyl	5.10	4.94	103	70-135	

Lab Batch #: 941450

Sample: 655798-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/20/14 20:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.3	9.87	114	70-135	
o-Terphenyl	5.12	4.93	104	70-135	

Lab Batch #: 941450

Sample: 485531-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/20/14 20:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.3	9.87	125	70-135	
o-Terphenyl	5.33	4.94	108	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 485531

Project ID:

073018

Lab Batch #: 941496

Sample: 941496-1-BKS

Matrix: Water

Date Analyzed: 05/15/2014

Date Prepared: 05/15/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0384	96	80-120	

Lab Batch #: 941498

Sample: 941498-1-BKS

Matrix: Water

Date Analyzed: 05/15/2014

Date Prepared: 05/15/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0379	95	80-120	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 485531

Project ID: 073018

Analyst: ARM

Date Prepared: 05/20/2014

Date Analyzed: 05/20/2014

Lab Batch ID: 941457

Sample: 655810-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0985	99	0.100	0.0979	98	1	70-125	25	
Toluene	<0.00100	0.100	0.0981	98	0.100	0.0973	97	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.104	104	0.100	0.103	103	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.213	107	0.200	0.210	105	1	70-131	25	
o-Xylene	<0.000700	0.100	0.108	108	0.100	0.107	107	1	71-133	25	

Analyst: MKO

Date Prepared: 05/21/2014

Date Analyzed: 05/21/2014

Lab Batch ID: 941620

Sample: 655840-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	0.00900	1.00	1.01	101	1.00	1.01	101	0	80-120	20	
Chromium	<0.000811	1.00	1.03	103	1.00	1.02	102	1	80-120	20	
Iron	<0.0283	5.00	5.26	105	5.00	5.23	105	1	80-120	20	
Manganese	0.00335	1.00	1.05	105	1.00	1.04	104	1	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 485531

Project ID: 073018

Analyst: RKO

Date Prepared: 05/20/2014

Date Analyzed: 05/20/2014

Lab Batch ID: 941614

Sample: 655842-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	24.8	99	25.0	25.0	100	1	80-120	20	

Analyst: RKO

Date Prepared: 05/21/2014

Date Analyzed: 05/21/2014

Lab Batch ID: 941625

Sample: 655844-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	26.1	104	25.0	24.7	99	6	80-120	20	

Analyst: ANS

Date Prepared: 05/21/2014

Date Analyzed: 05/21/2014

Lab Batch ID: 941532

Sample: 941532-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1050	105	1000	1100	110	5	80-120	10	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 485531

Project ID: 073018

Analyst: ARM

Date Prepared: 05/20/2014

Date Analyzed: 05/20/2014

Lab Batch ID: 941450

Sample: 655798-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	95.0	96	98.7	93.7	95	1	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	97.9	99	98.7	96.7	98	1	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Work Order #: 485531

Lab Batch #: 941614

Date Analyzed: 05/20/2014

QC- Sample ID: 485489-001 S

Reporting Units: mg/L

Date Prepared: 05/20/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	6680	5000	11100	88	80-120	

Lab Batch #: 941614

Date Analyzed: 05/21/2014

QC- Sample ID: 485489-011 S

Reporting Units: mg/L

Date Prepared: 05/21/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	227	250	498	108	80-120	

Lab Batch #: 941625

Date Analyzed: 05/21/2014

QC- Sample ID: 485531-010 S

Reporting Units: mg/L

Date Prepared: 05/21/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	167	250	420	101	80-120	

Lab Batch #: 941625

Date Analyzed: 05/21/2014

QC- Sample ID: 485741-004 S

Reporting Units: mg/L

Date Prepared: 05/21/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	1030	2500	3470	98	80-120	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 485531

Lab Batch #: 941450

Date Analyzed: 05/20/2014

QC- Sample ID: 485531-001 S

Reporting Units: mg/L

Date Prepared: 05/20/2014

Batch #: 1

Project ID: 073018

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	98.6	100	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	101	102	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485531

Project ID: 073018

Lab Batch ID: 941457

QC- Sample ID: 485531-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/20/2014

Date Prepared: 05/20/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.103	103	0.100	0.104	104	1	70-125	25	
Toluene	<0.00100	0.100	0.103	103	0.100	0.105	105	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.112	112	0.100	0.114	114	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.229	115	0.200	0.234	117	2	70-131	25	
o-Xylene	<0.000700	0.100	0.114	114	0.100	0.116	116	2	71-133	25	

Lab Batch ID: 941496

QC- Sample ID: 485531-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/15/2014

Date Prepared: 05/15/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	0.392	0.200	0.589	99	0.200	0.594	101	1	80-120	20	

Lab Batch ID: 941498

QC- Sample ID: 485531-011 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/15/2014

Date Prepared: 05/15/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	<0.00500	0.200	0.196	98	0.200	0.198	99	1	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485531

Project ID: 073018

Lab Batch ID: 941620

QC- Sample ID: 485339-001 S

Batch #: 1 Matrix: Ground Water

Date Analyzed: 05/21/2014

Date Prepared: 05/21/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.00929	1.00	0.982	97	1.00	0.946	94	4	75-125	20	
Chromium	0.00317	1.00	0.993	99	1.00	0.952	95	4	75-125	20	
Iron	0.0638	5.00	5.15	102	5.00	4.88	96	5	75-125	20	
Manganese	0.00489	1.00	1.01	101	1.00	0.969	96	4	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 485531

Lab Batch #: 941532

Project ID: 073018

Date Analyzed: 05/21/2014 16:28

Date Prepared: 05/21/2014

Analyst: ANS

QC- Sample ID: 485486-014 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	592	557	6	10	

Lab Batch #: 941532

Date Analyzed: 05/21/2014 16:28

Date Prepared: 05/21/2014

Analyst: ANS

QC- Sample ID: 485531-008 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	942	995	5	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



☐ 4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200
☐ 5332, Blackberry Drive, San Antonio, TX 78238 210-509-3334

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300
☐ 12600 West I-20 East, Odessa, TX 79765 432-563-1800

Serial #: 329777 Page 2 of 2

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Company-City CEA-Midland		Phone 432-686-0086	
Project Name-Location N. Eunice, NM		Previously done at XENCO 073018	
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other		Proj. Manager (PM) Mike Wisniewski	
E-mail Results to mw@wisniewski.com		Fax No: 432-686-0186	
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.		Bill to:	
Quote/Pricing:		P.O. No:	
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP		☐ Call for P.O.	
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:			
Special DLS (GW DW QAPP MDLs RLS See Lab PM Included Call PM)			
Sampler Name Justin Nixon Signature <i>[Signature]</i>			
Sample ID	Sampling Date	Time	Depth ft' in" m
1 MW-67SA 051514	5-15-14	0930	W
2 MW-79SA 051514	5-15-14	1015	W
3 MW-78SA 051514	5-15-14	1110	W
4 MW-53SA 051514	5-15-14	1205	W
5 MW-66SA 051514	5-15-14	1420	W
6 MW-72SA 051514	5-15-14	1525	W
7 Trip blank	5-15-14	—	W
8			
9			
10			
Relinquished by (Initials and Sign)		Date & Time	
1) <i>[Signature]</i>		5-15-14	
2) <i>[Signature]</i>		5-15-14	
3) <i>[Signature]</i>		5-15-14	
4) <i>[Signature]</i>		5-15-14	
5) <i>[Signature]</i>		5-15-14	
6) <i>[Signature]</i>		5-15-14	
7) <i>[Signature]</i>		5-15-14	
8) <i>[Signature]</i>		5-15-14	
9) <i>[Signature]</i>		5-15-14	
10) <i>[Signature]</i>		5-15-14	
Relinquished to (Initials and Sign)		Date & Time	
1) <i>[Signature]</i>		5-15-14	
2) <i>[Signature]</i>		5-15-14	
3) <i>[Signature]</i>		5-15-14	
4) <i>[Signature]</i>		5-15-14	
5) <i>[Signature]</i>		5-15-14	
6) <i>[Signature]</i>		5-15-14	
7) <i>[Signature]</i>		5-15-14	
8) <i>[Signature]</i>		5-15-14	
9) <i>[Signature]</i>		5-15-14	
10) <i>[Signature]</i>		5-15-14	
Preservatives		VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	
		VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	
		PAHs SIM 8310 8270	
		TX-1005 DRO GRO MA EPH MA VPH	
		SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	
		OC Pesticides PCBs Herbicides OP Pesticides	
		Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2	
		SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	
		EDB / DBCP	
		Dissolved Metals 6010B	
		TDS SM2540C	
		Chlorides E300	
		TPH GRO+DRO 8015mod	
		BTEX 8021B	
		Hexchrom 7196A	
		TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	
		Addn: PAH above mg/L W, mg/Kg S Highest Hit	
		Hold Samples (Surcharges will apply and are pre-approved)	
		Sample Clean-ups are pre-approved as needed	
		Remarks	
		Addn: Date Rcv. by: From:	

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____
Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)
Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)
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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates.
subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/15/2014 05:45:00 PM

Work Order #: 485531

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/16/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/16/2014

Analytical Report 486004

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

Eunice NM

073018

23-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



23-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **486004**

Eunice NM

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 486004. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 486004 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Sample Cross Reference 486004



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Teague	W	05-22-14 13:00		486004-001



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *Eunice NM*

Project ID: 073018

Work Order Number(s): 486004

Report Date: 23-MAY-14

Date Received: 05/23/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

486004



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **Teague**

Matrix: Water

Sample Depth:

Lab Sample Id: 486004-001

Date Collected: 05.22.14 13.00

Date Received: 05.23.14 18.20

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941734

Date Prep: 05.23.14 10.36

Prep seq: 655921

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1180	50.0	1.40	mg/L	05.23.14 10:36		50

Sample Id: **655921-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655921-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941734

Date Prep: 05.22.14 16.01

Prep seq: 655921

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.22.14 16:01	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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 5332 Blackberry Drive, San Antonio TX 78238
 2505 North Falkenburg Rd, Tampa, FL 33619
 12600 West I-20 East, Odessa, TX 79765
 6017 Financial Drive, Norcross, GA 30071
 3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



BS / BSD Recoveries



Project Name: Eunice NM

Work Order #: 486004

Project ID: 073018

Analyst: RKO

Date Prepared: 05/22/2014

Date Analyzed: 05/22/2014

Lab Batch ID: 941734

Sample: 655921-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	24.5	98	25.0	22.5	90	9	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Eunice NM



Work Order #: 486004

Lab Batch #: 941734

Date Analyzed: 05/22/2014

QC- Sample ID: 485270-001 S

Reporting Units: mg/L

Date Prepared: 05/22/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	48900	100000	152000	103	80-120	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/23/2014 06:20:00 PM

Work Order #: 486004

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	No
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/23/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/23/2014

Analytical Report 485610

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

27-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



27-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485610**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485610. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485610 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Sample Cross Reference 485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-21A 051614	W	05-16-14 10:50		485610-001
MW-50SA 051614	W	05-16-14 11:50		485610-002
MW-34 051614	W	05-16-14 12:50		485610-003
MW-41A 051614	W	05-16-14 14:00		485610-004
MW-71SA 051614	W	05-16-14 10:15		485610-005
MW-73SA 051614	W	05-16-14 11:15		485610-006
IW-5 051614	W	05-16-14 12:20		485610-007
IW-6 051614	W	05-16-14 13:20		485610-008
DUP-7 051614	W	05-16-14 00:00		485610-009
TRIP BLANK	W	05-16-14 00:00		485610-010



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 485610

Report Date: 27-MAY-14
Date Received: 05/16/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-21A 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-001

Date Collected: 05.16.14 10.50

Date Received: 05.16.14 16.50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	9270	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941460

Date Prep: 05.20.14 10.50

Subcontractor: SUB: E871002

Prep seq: 655812

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	740	100	2.80	mg/L	05.20.14 19:38		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0195	0.0200	0.00550	mg/L	05.23.14 18:24	J	1
Chromium	7440-47-3	0.0115	0.0100	0.000811	mg/L	05.23.14 18:24		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 18:24	U	1
Manganese	7439-96-5	0.0122	0.0200	0.00316	mg/L	05.23.14 18:24	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941699

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.16.14 17:15	U	1



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-21A 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-001

Date Collected: 05.16.14 10.50

Date Received: 05.16.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.21.14 02:51	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.21.14 02:51	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.21.14 02:51	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.21.14 02:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	116	70 - 135	%		
o-Terphenyl	124	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 00:14	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 00:14	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 00:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 00:14	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 00:14	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 00:14	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 00:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-50SA 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-002

Date Collected: 05.16.14 11.50

Date Received: 05.16.14 16.50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4030	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941460

Date Prep: 05.20.14 10.50

Subcontractor: SUB: E871002

Prep seq: 655812

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1360	100	2.80	mg/L	05.20.14 16:34		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0177	0.0200	0.00550	mg/L	05.23.14 18:44	J	1
Chromium	7440-47-3	0.295	0.0100	0.000811	mg/L	05.23.14 18:44		1
Iron	7439-89-6	0.0295	0.200	0.0283	mg/L	05.23.14 18:44	J	1
Manganese	7439-96-5	0.0255	0.0200	0.00316	mg/L	05.23.14 18:44		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941699

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.246	0.0100	0.00500	mg/L	05.16.14 17:15		1



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-50SA 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-002

Date Collected: 05.16.14 11.50

Date Received: 05.16.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.21.14 03:15	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.21.14 03:15	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.21.14 03:15	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.21.14 03:15	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	118	70 - 135	%		
o-Terphenyl	118	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.00210	0.00100	0.000800	mg/L	05.22.14 00:31		1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 00:31	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 00:31	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 00:31	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 00:31	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 00:31	U	
Total BTEX		0.00210		0.000700	mg/L	05.22.14 00:31		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		

Certificate of Analytical Results

485610

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-34 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-003

Date Collected: 05.16.14 12.50

Date Received: 05.16.14 16.50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2000	5.00	5.00	mg/L	05.21.14 16:28		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941460

Date Prep: 05.20.14 10.50

Subcontractor: SUB: E871002

Prep seq: 655812

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	533	100	2.80	mg/L	05.20.14 16:52		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0174	0.0200	0.00550	mg/L	05.23.14 18:51	J	1
Chromium	7440-47-3	0.111	0.0100	0.000811	mg/L	05.23.14 18:51		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 18:51	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.23.14 18:51	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941699

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0881	0.0100	0.00500	mg/L	05.16.14 17:15		1



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-34 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-003

Date Collected: 05.16.14 12.50

Date Received: 05.16.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.21.14 03:39	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.21.14 03:39	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.21.14 03:39	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.21.14 03:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 00:47	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 00:47	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 00:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 00:47	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 00:47	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 00:47	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 00:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-41A 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-004

Date Collected: 05.16.14 14.00

Date Received: 05.16.14 16.50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1810	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941460

Date Prep: 05.20.14 10.50

Subcontractor: SUB: E871002

Prep seq: 655812

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	442	100	2.80	mg/L	05.20.14 17:47		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0150	0.0200	0.00550	mg/L	05.23.14 18:57	J	1
Chromium	7440-47-3	0.298	0.0100	0.000811	mg/L	05.23.14 18:57		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 18:57	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.23.14 18:57	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941699

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.273	0.0100	0.00500	mg/L	05.16.14 17:15		1



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-41A 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-004

Date Collected: 05.16.14 14.00

Date Received: 05.16.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.21.14 04:06	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.21.14 04:06	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.21.14 04:06	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.21.14 04:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	116	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 01:04	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 01:04	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 01:04	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 01:04	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 01:04	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 01:04	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 01:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-71SA 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-005

Date Collected: 05.16.14 10.15

Date Received: 05.16.14 16.50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	758	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941460

Date Prep: 05.20.14 10.50

Subcontractor: SUB: E871002

Prep seq: 655812

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	121	10.0	0.280	mg/L	05.20.14 16:15		10

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0201	0.0200	0.00550	mg/L	05.23.14 19:04		1
Chromium	7440-47-3	0.00635	0.0100	0.000811	mg/L	05.23.14 19:04	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 19:04	U	1
Manganese	7439-96-5	0.208	0.0200	0.00316	mg/L	05.23.14 19:04		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941699

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.16.14 17:15	U	1



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-71SA 051614

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-005

Date Collected: 05.16.14 10.15

Date Received: 05.16.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.21.14 04:30	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.21.14 04:30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.21.14 04:30	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.21.14 04:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	110	70 - 135	%		
o-Terphenyl	113	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 01:20	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 01:20	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 01:20	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 01:20	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 01:20	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 01:20	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 01:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	101	80 - 120	%		



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-73SA 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-006

Date Collected: 05.16.14 11.15

Date Received: 05.16.14 16.50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1080	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941460

Date Prep: 05.20.14 10.50

Subcontractor: SUB: E871002

Prep seq: 655812

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	295	100	2.80	mg/L	05.20.14 14:24		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0135	0.0200	0.00550	mg/L	05.23.14 19:10	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.23.14 19:10	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 19:10	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.23.14 19:10	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941699

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.16.14 17:15	U	1



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-73SA 051614

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-006

Date Collected: 05.16.14 11.15

Date Received: 05.16.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.21.14 04:54	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.21.14 04:54	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.21.14 04:54	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.21.14 04:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	106	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 01:37	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 01:37	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 01:37	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 01:37	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 01:37	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 01:37	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 01:37	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		

Certificate of Analytical Results

485610

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-5 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-007

Date Collected: 05.16.14 12.20

Date Received: 05.16.14 16.50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2830	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941460

Date Prep: 05.20.14 10.50

Subcontractor: SUB: E871002

Prep seq: 655812

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	850	100	2.80	mg/L	05.20.14 18:06		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00973	0.0200	0.00550	mg/L	05.23.14 19:17	J	1
Chromium	7440-47-3	0.0109	0.0100	0.000811	mg/L	05.23.14 19:17		1
Iron	7439-89-6	0.822	0.200	0.0283	mg/L	05.23.14 19:17		1
Manganese	7439-96-5	2.16	0.0200	0.00316	mg/L	05.23.14 19:17		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941699

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.16.14 17:15	U	1



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-5 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-007

Date Collected: 05.16.14 12.20

Date Received: 05.16.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.21.14 05:17	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.21.14 05:17	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.21.14 05:17	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.21.14 05:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	108	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 01:54	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 01:54	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 01:54	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 01:54	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 01:54	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 01:54	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 01:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	80 - 120	%		
4-Bromofluorobenzene	102	80 - 120	%		



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-6 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-008

Date Collected: 05.16.14 13.20

Date Received: 05.16.14 16.50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2790	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941460

Date Prep: 05.20.14 10.50

Subcontractor: SUB: E871002

Prep seq: 655812

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	794	100	2.80	mg/L	05.20.14 18:24		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0197	0.0200	0.00550	mg/L	05.23.14 19:23	J	1
Chromium	7440-47-3	0.00793	0.0100	0.000811	mg/L	05.23.14 19:23	J	1
Iron	7439-89-6	1.19	0.200	0.0283	mg/L	05.23.14 19:23		1
Manganese	7439-96-5	4.58	0.0200	0.00316	mg/L	05.23.14 19:23		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941699

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.16.14 17:15	U	1



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-6 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-008

Date Collected: 05.16.14 13.20

Date Received: 05.16.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941633

Date Prep: 05.21.14 16.00

Prep seq: 655905

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.21.14 20:55	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.21.14 20:55	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.21.14 20:55	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.21.14 20:55	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	123	70 - 135	%		
o-Terphenyl	128	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 02:10	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 02:10	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 02:10	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 02:10	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 02:10	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 02:10	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 02:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	101	80 - 120	%		



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-7 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-009

Date Collected: 05.16.14 00.00

Date Received: 05.16.14 16.50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1810	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941460

Date Prep: 05.20.14 10.50

Subcontractor: SUB: E871002

Prep seq: 655812

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	445	100	2.80	mg/L	05.20.14 18:42		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0136	0.0200	0.00550	mg/L	05.23.14 19:30	J	1
Chromium	7440-47-3	0.293	0.0100	0.000811	mg/L	05.23.14 19:30		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 19:30	U	1
Manganese	7439-96-5	0.0105	0.0200	0.00316	mg/L	05.23.14 19:30	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941699

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.271	0.0100	0.00500	mg/L	05.16.14 17:15		1



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-7 051614**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-009

Date Collected: 05.16.14 00.00

Date Received: 05.16.14 16.50

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941633

Date Prep: 05.21.14 16.00

Prep seq: 655905

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.977	mg/L	05.21.14 21:18	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.977	mg/L	05.21.14 21:18	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.977	mg/L	05.21.14 21:18	U	1
Total TPH	PHCG635	ND		0.977	mg/L	05.21.14 21:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	118	70 - 135	%		
o-Terphenyl	122	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 02:27	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 02:27	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 02:27	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 02:27	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 02:27	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 02:27	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 02:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 485610-010

Date Collected: 05.16.14 00.00

Date Received: 05.16.14 16.50

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 02:43	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 02:43	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 02:43	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 02:43	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 02:43	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 02:43	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 02:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		

Sample Id: **655798-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655798-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941450

Date Prep: 05.20.14 16.00

Prep seq: 655798

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	05.20.14 19:17	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 19:17	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 19:17	U	1
Total TPH	PHC635	ND		0.975	mg/L	05.20.14 19:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	121	70 - 135	%		

Certificate of Analytical Results

485610

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **655812-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655812-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941460

Date Prep: 05.20.14 10.50

Subcontractor: SUB: E871002

Prep seq: 655812

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.20.14 09:46	U	1

Sample Id: **655887-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655887-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941612

Date Prep: 05.21.14 16.00

Prep seq: 655887

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.21.14 22:35	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.21.14 22:35	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.21.14 22:35	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.21.14 22:35	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.21.14 22:35	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655905-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655905-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941633

Date Prep: 05.21.14 16.00

Prep seq: 655905

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.21.14 19:43	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.21.14 19:43	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.21.14 19:43	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.21.14 19:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	114	70 - 135	%		
o-Terphenyl	124	70 - 135	%		

Sample Id: 655975-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655975-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.23.14 17:26	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.23.14 17:26	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 17:26	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.23.14 17:26	U	1

Sample Id: 941532-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 941532-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941532

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.21.14 16:28	U	1



Certificate of Analytical Results

485610



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **941636-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 941636-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.22.14 15:07	U	1

Sample Id: **941699-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 941699-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941699

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.16.14 17:15	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485610,

Project ID: 073018

Lab Batch #: 941612

Sample: 655887-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 22:35

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 941612

Sample: 655887-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 22:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0338	0.0300	113	80-120	

Lab Batch #: 941612

Sample: 655887-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 23:08

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 941612

Sample: 485412-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 23:24

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0341	0.0300	114	80-120	

Lab Batch #: 941612

Sample: 485412-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 23:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0343	0.0300	114	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485610,

Project ID: 073018

Lab Batch #: 941450

Sample: 655798-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/20/14 19:17	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.1	9.87	112	70-135
o-Terphenyl		5.99	4.94	121	70-135

Lab Batch #: 941450

Sample: 655798-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/20/14 19:41	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.8	9.87	120	70-135
o-Terphenyl		5.10	4.94	103	70-135

Lab Batch #: 941450

Sample: 655798-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/20/14 20:06	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.3	9.87	114	70-135
o-Terphenyl		5.12	4.93	104	70-135

Lab Batch #: 941450

Sample: 485531-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/20/14 20:53	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.3	9.87	125	70-135
o-Terphenyl		5.33	4.94	108	70-135

Lab Batch #: 941633

Sample: 655905-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/21/14 19:43	SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.3	9.87	114	70-135
o-Terphenyl		6.14	4.94	124	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485610,

Project ID: 073018

Lab Batch #: 941633

Sample: 655905-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 20:08

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.6	9.87	107	70-135	
o-Terphenyl	4.46	4.94	90	70-135	

Lab Batch #: 941633

Sample: 655905-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 20:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.8	9.88	119	70-135	
o-Terphenyl	4.54	4.94	92	70-135	

Lab Batch #: 941633

Sample: 485610-009 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 21:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.2	9.88	123	70-135	
o-Terphenyl	5.00	4.94	101	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 485610

Project ID:

073018

Lab Batch #: 941699

Sample: 941699-1-BKS

Matrix: Water

Date Analyzed: 05/16/2014

Date Prepared: 05/16/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0346	87	80-120	

Lab Batch #: 941460

Sample: 655812-1-BKS

Matrix: Water

Date Analyzed: 05/20/2014

Date Prepared: 05/20/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	<0.0280	10.0	10.3	103	80-120	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 485610

Project ID: 073018

Analyst: ARM

Date Prepared: 05/21/2014

Date Analyzed: 05/21/2014

Lab Batch ID: 941612

Sample: 655887-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.107	107	0.100	0.106	106	1	70-125	25	
Toluene	<0.00100	0.100	0.106	106	0.100	0.105	105	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.115	115	0.100	0.113	113	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.235	118	0.200	0.230	115	2	70-131	25	
o-Xylene	<0.000700	0.100	0.118	118	0.100	0.115	115	3	71-133	25	

Analyst: MKO

Date Prepared: 05/23/2014

Date Analyzed: 05/23/2014

Lab Batch ID: 941785

Sample: 655975-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.03	103	1.00	1.06	106	3	80-120	20	
Chromium	<0.000811	1.00	1.08	108	1.00	1.12	112	4	80-120	20	
Iron	<0.0283	5.00	5.31	106	5.00	5.49	110	3	80-120	20	
Manganese	<0.00316	1.00	1.06	106	1.00	1.09	109	3	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 485610

Project ID: 073018

Analyst: ANS

Date Prepared: 05/21/2014

Date Analyzed: 05/21/2014

Lab Batch ID: 941532

Sample: 941532-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1050	105	1000	1100	110	5	80-120	10	

Analyst: ANS

Date Prepared: 05/22/2014

Date Analyzed: 05/22/2014

Lab Batch ID: 941636

Sample: 941636-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1140	114	1000	1060	106	7	80-120	10	

Analyst: ARM

Date Prepared: 05/20/2014

Date Analyzed: 05/20/2014

Lab Batch ID: 941450

Sample: 655798-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	95.0	96	98.7	93.7	95	1	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	97.9	99	98.7	96.7	98	1	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 485610

Project ID: 073018

Analyst: ARM

Date Prepared: 05/21/2014

Date Analyzed: 05/21/2014

Lab Batch ID: 941633

Sample: 655905-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	93.2	94	98.8	106	107	13	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.7	107	108	98.8	109	110	2	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 485610

Lab Batch #: 941450

Date Analyzed: 05/20/2014

QC- Sample ID: 485531-001 S

Reporting Units: mg/L

Date Prepared: 05/20/2014

Batch #: 1

Project ID: 073018

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	98.6	100	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	101	102	70-135	

Lab Batch #: 941633

Date Analyzed: 05/21/2014

QC- Sample ID: 485610-009 S

Reporting Units: mg/L

Date Prepared: 05/21/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.977	98.8	113	114	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.977	98.8	109	110	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 485610

Project ID: 073018

Lab Batch ID: 941612

QC- Sample ID: 485412-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/21/2014

Date Prepared: 05/21/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.106	106	0.100	0.105	105	1	70-125	25	
Toluene	<0.00100	0.100	0.105	105	0.100	0.104	104	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.113	113	0.100	0.112	112	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.231	116	0.200	0.228	114	1	70-131	25	
o-Xylene	<0.000700	0.100	0.116	116	0.100	0.114	114	2	71-133	25	

Lab Batch ID: 941699

QC- Sample ID: 485610-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/16/2014

Date Prepared: 05/16/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	<0.00500	0.200	0.203	102	0.200	0.201	101	1	80-120	20	

Lab Batch ID: 941785

QC- Sample ID: 486028-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	0.00968	1.00	1.09	108	1.00	1.07	106	2	75-125	20	
Chromium	0.00258	1.00	1.11	111	1.00	1.09	109	2	75-125	20	
Iron	2.14	5.00	7.96	116	5.00	7.76	112	3	75-125	20	
Manganese	0.195	1.00	1.29	110	1.00	1.27	108	2	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485610

Project ID: 073018

Lab Batch ID: 941460

QC- Sample ID: 485610-009 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/20/2014

Date Prepared: 05/20/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	445	1000	1450	101	1000	1480	104	2	80-120	20	

Lab Batch ID: 941460

QC- Sample ID: 485622-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/20/2014

Date Prepared: 05/20/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	13.0	10.0	22.6	96	10.0	22.6	96	0	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 485610

Lab Batch #: 941532

Project ID: 073018

Date Analyzed: 05/21/2014 16:28

Date Prepared: 05/21/2014

Analyst: ANS

QC- Sample ID: 485486-014 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	592	557	6	10	

Lab Batch #: 941532

Date Analyzed: 05/21/2014 16:28

Date Prepared: 05/21/2014

Analyst: ANS

QC- Sample ID: 485531-008 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	942	995	5	10	

Lab Batch #: 941636

Date Analyzed: 05/22/2014 15:07

Date Prepared: 05/22/2014

Analyst: ANS

QC- Sample ID: 485610-004 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1810	1750	3	10	

Lab Batch #: 941636

Date Analyzed: 05/22/2014 15:07

Date Prepared: 05/22/2014

Analyst: ANS

QC- Sample ID: 485741-003 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3200	3490	9	10	

Spike Relative Difference $RPD = 200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



☐ 4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200
☐ 5332, Blackberry Drive, San Antonio, TX 78238 210-509-3334

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300
☐ 12600 West 1-20 East, Odessa, TX 79765 432-563-1800

Serial #: 329776 Page 1 of 1

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Company/City		CPA-Midland		Phone		432-686-0086	
Project Name-Location		☐ Previously done at XENCO		Project ID		073018	
N. Ennize, NM		Proj. Manager (PM)		Mike Wisniewicki			
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other		E-mail Results to		PM and		Fax No:	
mwisniewicki@cpaworld.com		432-686-0186					
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.		Bill to:					
Quote/Pricing:		P.O. No:		☐ Call for P.O.			
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP		QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:					
Special DIs (GW DW QAPP MDLs RLS See Lab PM Included Call PM)							
Sampler Name		Chris Evans		Signature		Chris Evans	
Sample ID		Sampling Date		Time		Depth ft' In" m	
1 MW-21A 051614		5-16-14		1050		W	
2 MW-30SA 051614		5-16-14		1150		W	
3 MW-34 051614		5-16-14		1250		W	
4 MW-41A 051614		5-16-14		1400		W	
5 MW-71SA 051614		5-16-14		1015		W	
6 MW-73SA 051614		5-16-14		1115		W	
7 MW-5 051614		5-16-14		1220		W	
8 MW-6 051614		5-16-14		1320		W	
9 DUP-7 051614		5-16-14		---		W	
10 Trip Blank		5-16-14		---		W	
Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time	
1) [Signature]		5/16/15		2) [Signature]		5/16/14/15	
3) [Signature]				4) [Signature]			
5) [Signature]				6) [Signature]			
Preservatives:		Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)		Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)		Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)	
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other		Committed to Excellence in Service and Quality		Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.		www.xenco.com	



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/16/2014 04:50:00 PM

Work Order #: 485610

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/16/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/16/2014

Analytical Report 485741

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

27-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



27-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485741**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485741. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485741 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
IW-14	W	05-19-14 11:20		485741-001
IW-13	W	05-19-14 12:50		485741-002
IW-11	W	05-19-14 15:20		485741-003
IW-10	W	05-19-14 16:15		485741-004
TRIP BLANK	W	05-19-14 00:00		485741-005



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018

Work Order Number(s): 485741

Report Date: 27-MAY-14

Date Received: 05/19/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-14**

Matrix: Water

Sample Depth:

Lab Sample Id: 485741-001

Date Collected: 05.19.14 11.20

Date Received: 05.19.14 16.55

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3380	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 14.13

Subcontractor: SUB: E871002

Prep seq: 655844

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1040	100	2.80	mg/L	05.21.14 14:13		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0508	0.0200	0.00550	mg/L	05.23.14 19:36		1
Chromium	7440-47-3	0.0128	0.0100	0.000811	mg/L	05.23.14 19:36		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 19:36	U	1
Manganese	7439-96-5	0.277	0.0200	0.00316	mg/L	05.23.14 19:36		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941827

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.19.14 19:20	U	5



Certificate of Analytical Results

485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-14

Matrix: Water

Sample Depth:

Lab Sample Id: 485741-001

Date Collected: 05.19.14 11.20

Date Received: 05.19.14 16.55

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941633

Date Prep: 05.21.14 16.00

Prep seq: 655905

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.22.14 00:54	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.22.14 00:54	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.22.14 00:54	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.22.14 00:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941712

Date Prep: 05.22.14 07.00

Prep seq: 655912

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 18:46	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 18:46	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 18:46	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 18:46	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 18:46	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 18:46	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 18:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	103	80 - 120	%		
4-Bromofluorobenzene	100	80 - 120	%		



Certificate of Analytical Results

485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-13**

Matrix: Water

Sample Depth:

Lab Sample Id: 485741-002

Date Collected: 05.19.14 12.50

Date Received: 05.19.14 16.55

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2990	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 14.36

Subcontractor: SUB: E871002

Prep seq: 655844

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1100	100	2.80	mg/L	05.21.14 14:36		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00915	0.0200	0.00550	mg/L	05.23.14 19:43	J	1
Chromium	7440-47-3	0.00443	0.0100	0.000811	mg/L	05.23.14 19:43	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 19:43	U	1
Manganese	7439-96-5	0.221	0.0200	0.00316	mg/L	05.23.14 19:43		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941827

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.19.14 19:20	U	5



Certificate of Analytical Results

485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-13

Matrix: Water

Sample Depth:

Lab Sample Id: 485741-002

Date Collected: 05.19.14 12.50

Date Received: 05.19.14 16.55

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941633

Date Prep: 05.21.14 16.00

Prep seq: 655905

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.977	mg/L	05.22.14 01:40	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.977	mg/L	05.22.14 01:40	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.977	mg/L	05.22.14 01:40	U	1
Total TPH	PHCG635	ND		0.977	mg/L	05.22.14 01:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	129	70 - 135	%		
o-Terphenyl	130	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941712

Date Prep: 05.22.14 07.00

Prep seq: 655912

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 19:03	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 19:03	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 19:03	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 19:03	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 19:03	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 19:03	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 19:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		

Certificate of Analytical Results

485741

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-11**

Matrix: Water

Sample Depth:

Lab Sample Id: 485741-003

Date Collected: 05.19.14 15.20

Date Received: 05.19.14 16.55

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3200	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 14.59

Subcontractor: SUB: E871002

Prep seq: 655844

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	970	50.0	1.40	mg/L	05.21.14 14:59		50

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0337	0.0200	0.00550	mg/L	05.23.14 20:02		1
Chromium	7440-47-3	0.00380	0.0100	0.000811	mg/L	05.23.14 20:02	J	1
Iron	7439-89-6	0.818	0.200	0.0283	mg/L	05.23.14 20:02		1
Manganese	7439-96-5	1.02	0.0200	0.00316	mg/L	05.23.14 20:02		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941827

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.19.14 19:20	U	5



Certificate of Analytical Results

485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-11

Matrix: Water

Sample Depth:

Lab Sample Id: 485741-003

Date Collected: 05.19.14 15.20

Date Received: 05.19.14 16.55

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941633

Date Prep: 05.21.14 16.00

Prep seq: 655905

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.22.14 02:03	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.22.14 02:03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.22.14 02:03	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.22.14 02:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	116	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941712

Date Prep: 05.22.14 07.00

Prep seq: 655912

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 19:20	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 19:20	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 19:20	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 19:20	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 19:20	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 19:20	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 19:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	95	80 - 120	%		
4-Bromofluorobenzene	100	80 - 120	%		



Certificate of Analytical Results

485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-10**

Matrix: Water

Sample Depth:

Lab Sample Id: 485741-004

Date Collected: 05.19.14 16.15

Date Received: 05.19.14 16.55

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3310	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941625

Date Prep: 05.21.14 15.21

Subcontractor: SUB: E871002

Prep seq: 655844

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1030	100	2.80	mg/L	05.21.14 15:21		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.23.14 20:09	U	1
Chromium	7440-47-3	0.00147	0.0100	0.000811	mg/L	05.23.14 20:09	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 20:09	U	1
Manganese	7439-96-5	10.1	0.0200	0.00316	mg/L	05.23.14 20:09		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941827

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.19.14 19:20	U	5



Certificate of Analytical Results

485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-10**

Matrix: Water

Sample Depth:

Lab Sample Id: 485741-004

Date Collected: 05.19.14 16.15

Date Received: 05.19.14 16.55

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941633

Date Prep: 05.21.14 16.00

Prep seq: 655905

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.22.14 02:27	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.22.14 02:27	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.22.14 02:27	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.22.14 02:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	115	70 - 135	%		
o-Terphenyl	115	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941712

Date Prep: 05.22.14 07.00

Prep seq: 655912

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 19:36	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 19:36	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 19:36	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 19:36	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 19:36	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 19:36	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 19:36	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK** Matrix: Water Sample Depth:
Lab Sample Id: 485741-005 Date Collected: 05.19.14 00.00 Date Received: 05.19.14 16.55
Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
Analyst: ARM % Moist: Tech: ARM
Seq Number: 941712 Date Prep: 05.22.14 07.00
Prep seq: 655912

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 13:44	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 13:44	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 13:44	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 13:44	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 13:44	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 13:44	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 13:44	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		

Sample Id: **655844-1-BLK** Matrix: Water Sample Depth:
Lab Sample Id: 655844-1-BLK Date Collected: Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: RKO % Moist: Tech: RKO
Seq Number: 941625 Date Prep: 05.21.14 09.07
Subcontractor: SUB: E871002 Prep seq: 655844

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.21.14 09:07	U	1



Certificate of Analytical Results

485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655905-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655905-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941633

Date Prep: 05.21.14 16.00

Prep seq: 655905

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.21.14 19:43	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.21.14 19:43	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.21.14 19:43	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.21.14 19:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	114	70 - 135	%		
o-Terphenyl	124	70 - 135	%		

Sample Id: 655912-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655912-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941712

Date Prep: 05.22.14 07.00

Prep seq: 655912

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 09:25	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 09:25	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 09:25	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 09:25	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 09:25	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

485741



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655975-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655975-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941785

Date Prep: 05.23.14 11.10

Subcontractor: SUB: E871002

Prep seq: 655975

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.23.14 17:26	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.23.14 17:26	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.23.14 17:26	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.23.14 17:26	U	1

Sample Id: 941636-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 941636-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.22.14 15:07	U	1

Sample Id: 941827-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 941827-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941827

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.19.14 19:20	U	5

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485741,

Project ID: 073018

Lab Batch #: 941712

Sample: 655912-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/22/14 09:25

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	80-120	
4-Bromofluorobenzene	0.0284	0.0300	95	80-120	

Lab Batch #: 941712

Sample: 655912-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/22/14 09:42

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0346	0.0300	115	80-120	

Lab Batch #: 941712

Sample: 655912-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/22/14 09:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0334	0.0300	111	80-120	

Lab Batch #: 941712

Sample: 485426-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/22/14 10:15

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0336	0.0300	112	80-120	

Lab Batch #: 941712

Sample: 485426-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/22/14 10:31

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0351	0.0300	117	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485741,

Project ID: 073018

Lab Batch #: 941633

Sample: 655905-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 19:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.3	9.87	114	70-135	
o-Terphenyl	6.14	4.94	124	70-135	

Lab Batch #: 941633

Sample: 655905-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 20:08

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.6	9.87	107	70-135	
o-Terphenyl	4.46	4.94	90	70-135	

Lab Batch #: 941633

Sample: 655905-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 20:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.8	9.88	119	70-135	
o-Terphenyl	4.54	4.94	92	70-135	

Lab Batch #: 941633

Sample: 485610-009 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/21/14 21:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.2	9.88	123	70-135	
o-Terphenyl	5.00	4.94	101	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 485741

Project ID:

073018

Lab Batch #: 941827

Sample: 941827-1-BKS

Matrix: Water

Date Analyzed: 05/19/2014

Date Prepared: 05/19/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.0250	0.200	0.190	95	80-120	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 485741

Project ID: 073018

Analyst: ARM

Date Prepared: 05/22/2014

Date Analyzed: 05/22/2014

Lab Batch ID: 941712

Sample: 655912-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.105	105	0.100	0.0993	99	6	70-125	25	
Toluene	<0.00100	0.100	0.106	106	0.100	0.0995	100	6	70-125	25	
Ethylbenzene	<0.000800	0.100	0.114	114	0.100	0.107	107	6	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.234	117	0.200	0.220	110	6	70-131	25	
o-Xylene	<0.000700	0.100	0.117	117	0.100	0.110	110	6	71-133	25	

Analyst: MKO

Date Prepared: 05/23/2014

Date Analyzed: 05/23/2014

Lab Batch ID: 941785

Sample: 655975-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.03	103	1.00	1.06	106	3	80-120	20	
Chromium	<0.000811	1.00	1.08	108	1.00	1.12	112	4	80-120	20	
Iron	<0.0283	5.00	5.31	106	5.00	5.49	110	3	80-120	20	
Manganese	<0.00316	1.00	1.06	106	1.00	1.09	109	3	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 485741

Project ID: 073018

Analyst: RKO

Date Prepared: 05/21/2014

Date Analyzed: 05/21/2014

Lab Batch ID: 941625

Sample: 655844-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	26.1	104	25.0	24.7	99	6	80-120	20	

Analyst: ANS

Date Prepared: 05/22/2014

Date Analyzed: 05/22/2014

Lab Batch ID: 941636

Sample: 941636-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1140	114	1000	1060	106	7	80-120	10	

Analyst: ARM

Date Prepared: 05/21/2014

Date Analyzed: 05/21/2014

Lab Batch ID: 941633

Sample: 655905-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	93.2	94	98.8	106	107	13	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.7	107	108	98.8	109	110	2	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 485741

Lab Batch #: 941625

Date Analyzed: 05/21/2014

QC- Sample ID: 485531-010 S

Reporting Units: mg/L

Date Prepared: 05/21/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	167	250	420	101	80-120	

Lab Batch #: 941625

Date Analyzed: 05/21/2014

QC- Sample ID: 485741-004 S

Reporting Units: mg/L

Date Prepared: 05/21/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	1030	2500	3470	98	80-120	

Lab Batch #: 941633

Date Analyzed: 05/21/2014

QC- Sample ID: 485610-009 S

Reporting Units: mg/L

Date Prepared: 05/21/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.977	98.8	113	114	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.977	98.8	109	110	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 485741

Project ID: 073018

Lab Batch ID: 941712

QC- Sample ID: 485426-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/22/2014

Date Prepared: 05/22/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.101	101	0.100	0.103	103	2	70-125	25	
Toluene	<0.00100	0.100	0.102	102	0.100	0.104	104	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.110	110	0.100	0.112	112	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.227	114	0.200	0.230	115	1	70-131	25	
o-Xylene	<0.000700	0.100	0.113	113	0.100	0.115	115	2	71-133	25	

Lab Batch ID: 941827

QC- Sample ID: 485741-002 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/19/2014

Date Prepared: 05/19/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	<0.00500	0.200	0.198	99	0.200	0.200	100	1	80-120	20	

Lab Batch ID: 941785

QC- Sample ID: 486028-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	0.00968	1.00	1.09	108	1.00	1.07	106	2	75-125	20	
Chromium	0.00258	1.00	1.11	111	1.00	1.09	109	2	75-125	20	
Iron	2.14	5.00	7.96	116	5.00	7.76	112	3	75-125	20	
Manganese	0.195	1.00	1.29	110	1.00	1.27	108	2	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 485741

Lab Batch #: 941636

Project ID: 073018

Date Analyzed: 05/22/2014 15:07

Date Prepared: 05/22/2014

Analyst: ANS

QC- Sample ID: 485610-004 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1810	1750	3	10	

Lab Batch #: 941636

Date Analyzed: 05/22/2014 15:07

Date Prepared: 05/22/2014

Analyst: ANS

QC- Sample ID: 485741-003 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3200	3490	9	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



CHAIN OF CUSTODY RECORD

You can put an address here

Page 1 of 1

LAB W.O. #:

485711

Field billable Hrs.:

Company: CRA - Midland Phone: 432-68-0086

Address: Fax:

City: St: Zip: 0

PM/Attn: M. Mc Menzieck@earthlink.net

Project ID/ Location: 073018 N. Eunice

Invoice To: Quote #:

TAT Work Days = D Need results by:

Time:

Std (5-7D) Same Day 1D 2D 3D 4D 5D 7D 10D 14D Other

ANALYSES REQUESTED

Example Volatiles by 8260
Dissolved Metals
TDS SM2540C
Chlorides E300
TPH G-RO+DRD 8015 Mod.
BTEX .8021B
Hexachlor 766A

* Container Type Codes	
VA Vial Amber	ES Encore Sampler
VC Vial Clear	TS TerraCore Sam
VP Vial Pre-preserved	AC Air Canister
GA Glass Amber	TB Tedlar Bag
GC Glass Clear	ZB Zip Lock Bag
PA Plastic Amber	PC Plastic Clear
PO Plastic Clear	
Other	
Size(s): 2oz, 4oz, 8oz, 16oz, 32oz, 1Gal	
40mL, 125 mL, 250 mL, 500 mL, 1L, Other	
** Preservative Type Code	
A. None	E. HCL
B. HNO ₃	F. MeOH
C. H ₂ SO ₄	G. Na ₂ S ₂ O ₃
D. NaOH	H. NaHSO ₃
	I. Ice
	J. MCAA
	K. ZnAc2/NaOH
	L. Ascorbic Acid/NaOH

Matrix Type Codes	
GW Ground Water	S
Soil/Sediment/Solid	W Wipe
WW Waste Water	A Air
DW Drinking Water	O Oil
SW Surface Water	T Tissue
OW Ocean/Sea Water	U Urine
PL Product-Liquid	B Blood
PS Product-Solid	
Sl Sludge	

REMARKS

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Field Filtered	Depth	Total # of containers	# Cont	Lab Only	Hold Sample (CALL) on Highest TPH	Run PAH Only if
1	IW-14	6/16/04	11:35	GW	X	6"	2		X		
2	IW-13	6/16/04	12:50	GW					X		
3	IW-11		15:20						X		
4	IW-10		16:15						X		
5	TELE BLANK	5/19/04		W			2		X		
6											
7											
8											
9											
0											
Reg. Program / Clean-up Std		STATE for Certs & Regs		QA/QC Level & Certification		EDDs		COC & Labels		Coolers Temp °C	
CTLs	TRRP DW NPDES LPST DryCh	FL TX GA NC SC NJ PA OK	LA AL NM Other:	1 2 3 4 CLP AFCEE QAPP	NEIAC DoD-EIAP Other:	ADAPT SEDD ERPIMS	XLS Other:	Match Incomplete	Affiliation	1 2 3	Time
1											
2											
3											
4											

Lab Use Only	
Non-Conformances found?	YES NO
Samples inhaled upon arrival?	
Received on Vial?	
Labelled with proper preservative?	
Received within holding time?	
Custody seals intact?	
VOCs rec'd w/o headspace?	
Proper containers used?	
pH verified-acceptable, exci VOCs?	
Received on time to meet HHS?	

C.O.C. Serial #

B&A Laboratories: Hobbs 575-392-7550 Dallas 214-902-0300 Houston 281-242-4200 Odessa 432-563-1800 San Antonio 210-509-3334 Phoenix 602-437-0330
FTS Service Centers: Atlanta 770-449-8800 Lakeland 863-646-8526 Tampa 803-543-8099 Philadelphia 610-955-5649 South Carolina 803-543-8099

Execution of this document by client creates a legal and binding agreement between client and Xenco for analytical and testing services provided by Xenco to client under Xenco's standard terms and conditions unless previously agreed in writing. Terms of payment are Net 30 and all past due amounts shall accrue interest at 1.5% per month until paid in full. All laboratory analytical data and reports generated by Xenco remain the exclusive property of Xenco until invoices for such data are paid in full.
Revision Date: Nov 12, 2009



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/19/2014 04:55:00 PM

Work Order #: 485741

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/20/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/20/2014

Analytical Report 485906

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

30-MAY-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



30-MAY-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485906**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485906. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485906 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-935A 052114	W	05-21-14 09:10		485906-001
MW-915A 052114	W	05-21-14 10:45		485906-002
IW-21 052114	W	05-21-14 11:35		485906-003
IW-22 052114	W	05-21-14 12:20		485906-004
IW-23 052114	W	05-21-14 13:25		485906-005
MW-4 052114	W	05-21-14 14:20		485906-006
MW-4A 052114	W	05-21-14 15:25		485906-007
DUP 9 052114	W	05-21-14 00:00		485906-008
Trip Blank	W	05-21-14 00:00		485906-009



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 485906

Report Date: 30-MAY-14
Date Received: 05/21/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-942058 Dissolved Metals per ICP by SW846 6010B

Iron detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples affected are: 485906-007, -001, -002, -003, -004, -005, -006, -008.



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-935A 052114**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-001

Date Collected: 05.21.14 09.10

Date Received: 05.21.14 16.17

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1360	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	485	100	2.80	mg/L	05.28.14 17:43		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 22:08	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.28.14 22:08	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 22:08	U	1
Manganese	7439-96-5	0.0102	0.0200	0.00316	mg/L	05.28.14 22:08	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941913

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.21.14 19:00	U	1

Certificate of Analytical Results

485906

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-935A 052114**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-001

Date Collected: 05.21.14 09.10

Date Received: 05.21.14 16.17

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.29.14 10:51	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.29.14 10:51	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.29.14 10:51	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.29.14 10:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	129	70 - 135	%		
o-Terphenyl	107	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 22:38	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 22:38	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 22:38	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 22:38	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 22:38	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 22:38	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 22:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	100	80 - 120	%		



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-915A 052114**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-002

Date Collected: 05.21.14 10.45

Date Received: 05.21.14 16.17

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1780	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	422	100	2.80	mg/L	05.28.14 18:34		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 22:15	U	1
Chromium	7440-47-3	0.120	0.0100	0.000811	mg/L	05.28.14 22:15		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 22:15	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.28.14 22:15	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941913

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.124	0.0100	0.00500	mg/L	05.21.14 19:00		1



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-915A 052114**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-002

Date Collected: 05.21.14 10.45

Date Received: 05.21.14 16.17

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.29.14 11:43	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.29.14 11:43	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.29.14 11:43	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.29.14 11:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	85	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 22:54	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 22:54	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 22:54	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 22:54	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 22:54	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 22:54	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 22:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-21 052114

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-003

Date Collected: 05.21.14 11.35

Date Received: 05.21.14 16.17

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2270	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	545	100	2.80	mg/L	05.28.14 18:51		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 22:22	U	1
Chromium	7440-47-3	0.00181	0.0100	0.000811	mg/L	05.28.14 22:22	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 22:22	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.28.14 22:22	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941913

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.21.14 19:00	U	1



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-21 052114

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-003

Date Collected: 05.21.14 11.35

Date Received: 05.21.14 16.17

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.29.14 12:09	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.29.14 12:09	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.29.14 12:09	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.29.14 12:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	86	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 23:11	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 23:11	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 23:11	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 23:11	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 23:11	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 23:11	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 23:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-22 052114

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-004

Date Collected: 05.21.14 12.20

Date Received: 05.21.14 16.17

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2220	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	454	100	2.80	mg/L	05.28.14 19:08		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 22:41	U	1
Chromium	7440-47-3	0.0384	0.0100	0.000811	mg/L	05.28.14 22:41		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 22:41	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.28.14 22:41	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941913

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0350	0.0100	0.00500	mg/L	05.21.14 19:00		1



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-22 052114

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-004

Date Collected: 05.21.14 12.20

Date Received: 05.21.14 16.17

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.29.14 12:35	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.29.14 12:35	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.29.14 12:35	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.29.14 12:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	111	70 - 135	%		
o-Terphenyl	89	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 23:28	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 23:28	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 23:28	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 23:28	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 23:28	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 23:28	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 23:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-23 052114

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-005

Date Collected: 05.21.14 13.25

Date Received: 05.21.14 16.17

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2190	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	586	100	2.80	mg/L	05.28.14 19:25		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00892	0.0200	0.00550	mg/L	05.28.14 22:48	J	1
Chromium	7440-47-3	0.0189	0.0100	0.000811	mg/L	05.28.14 22:48		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 22:48	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.28.14 22:48	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941913

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0177	0.0100	0.00500	mg/L	05.21.14 19:00		1



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-23 052114

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-005

Date Collected: 05.21.14 13.25

Date Received: 05.21.14 16.17

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.29.14 16:25	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.29.14 16:25	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.29.14 16:25	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.29.14 16:25	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	130	70 - 135	%		
o-Terphenyl	113	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 23:44	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 23:44	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 23:44	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 23:44	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 23:44	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.22.14 23:44	U	
Total BTEX		ND		0.000700	mg/L	05.22.14 23:44	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-4 052114**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-006

Date Collected: 05.21.14 14.20

Date Received: 05.21.14 16.17

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2800	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	571	100	2.80	mg/L	05.28.14 19:42		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 22:54	U	1
Chromium	7440-47-3	0.277	0.0100	0.000811	mg/L	05.28.14 22:54		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 22:54	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.28.14 22:54	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941913

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.277	0.0100	0.00500	mg/L	05.21.14 19:00		1



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-4 052114**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-006

Date Collected: 05.21.14 14.20

Date Received: 05.21.14 16.17

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.29.14 17:31	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	1.25	1.48	0.975	mg/L	05.29.14 17:31	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.29.14 17:31	U	1
Total TPH	PHCG635	1.25		0.975	mg/L	05.29.14 17:31	J	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	90	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 00:01	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 00:01	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 00:01	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 00:01	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 00:01	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 00:01	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 00:01	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-4A 052114**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-007

Date Collected: 05.21.14 15.25

Date Received: 05.21.14 16.17

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2630	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	606	100	2.80	mg/L	05.28.14 20:00		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0131	0.0200	0.00550	mg/L	05.28.14 23:01	J	1
Chromium	7440-47-3	0.403	0.0100	0.000811	mg/L	05.28.14 23:01		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 23:01	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.28.14 23:01	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941913

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.431	0.0100	0.00500	mg/L	05.21.14 19:00		1



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-4A 052114**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-007

Date Collected: 05.21.14 15.25

Date Received: 05.21.14 16.17

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.29.14 17:58	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.29.14 17:58	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.29.14 17:58	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.29.14 17:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	114	70 - 135	%		
o-Terphenyl	92	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 00:17	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 00:17	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 00:17	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 00:17	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 00:17	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 00:17	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 00:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP 9 052114**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-008

Date Collected: 05.21.14 00.00

Date Received: 05.21.14 16.17

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2470	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	588	100	2.80	mg/L	05.28.14 20:17		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 23:07	U	1
Chromium	7440-47-3	0.0161	0.0100	0.000811	mg/L	05.28.14 23:07		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 23:07	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.28.14 23:07	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941913

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0181	0.0100	0.00500	mg/L	05.21.14 19:00		1



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP 9 052114**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-008

Date Collected: 05.21.14 00.00

Date Received: 05.21.14 16.17

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.29.14 18:23	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.29.14 18:23	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.29.14 18:23	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.29.14 18:23	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	126	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 00:34	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 00:34	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 00:34	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 00:34	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 00:34	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 00:34	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 00:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **Trip Blank**

Matrix: Water

Sample Depth:

Lab Sample Id: 485906-009

Date Collected: 05.21.14 00.00

Date Received: 05.21.14 16.17

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941718

Date Prep: 05.22.14 16.00

Prep seq: 655961

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 07:41	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 07:41	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 07:41	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 07:41	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 07:41	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 07:41	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 07:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		

Sample Id: **655958-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655958-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 20:58	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 20:58	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 20:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 20:58	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 20:58	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655961-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655961-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941718

Date Prep: 05.22.14 16.00

Prep seq: 655961

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 05:47	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 05:47	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 05:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 05:47	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 05:47	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		

Sample Id: 656124-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656124-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 20:05	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.28.14 20:05	U	1
Iron	7439-89-6	0.0645	0.200	0.0283	mg/L	05.28.14 20:05	J	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.28.14 20:05	U	1



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 656165-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656165-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.27.14 18:31	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.27.14 18:31	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.27.14 18:31	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.27.14 18:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Sample Id: 656169-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656169-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.28.14 17:09	U	1

Sample Id: 941819-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 941819-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.27.14 11:49	U	1



Certificate of Analytical Results

485906



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **941913-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 941913-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941913

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.21.14 19:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485906,

Project ID: 073018

Lab Batch #: 941717

Sample: 655958-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/22/14 20:58		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0269	0.0300	90	80-120
4-Bromofluorobenzene		0.0279	0.0300	93	80-120

Lab Batch #: 941717

Sample: 655958-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/22/14 21:15		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0284	0.0300	95	80-120
4-Bromofluorobenzene		0.0343	0.0300	114	80-120

Lab Batch #: 941717

Sample: 655958-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/22/14 21:31		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0285	0.0300	95	80-120
4-Bromofluorobenzene		0.0336	0.0300	112	80-120

Lab Batch #: 941717

Sample: 485906-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/22/14 21:48		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0284	0.0300	95	80-120
4-Bromofluorobenzene		0.0340	0.0300	113	80-120

Lab Batch #: 941717

Sample: 485906-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/22/14 22:04		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0283	0.0300	94	80-120
4-Bromofluorobenzene		0.0336	0.0300	112	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485906,

Project ID: 073018

Lab Batch #: 941718

Sample: 655961-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/23/14 05:47

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 941718

Sample: 655961-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/23/14 06:03

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0345	0.0300	115	80-120	

Lab Batch #: 941718

Sample: 655961-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/23/14 06:20

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0344	0.0300	115	80-120	

Lab Batch #: 941718

Sample: 485621-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/23/14 06:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0340	0.0300	113	80-120	

Lab Batch #: 941718

Sample: 485621-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/23/14 06:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0333	0.0300	111	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485906,

Project ID: 073018

Lab Batch #: 942055

Sample: 656165-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/27/14 18:31

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.98	9.87	101	70-135	
o-Terphenyl	4.49	4.94	91	70-135	

Lab Batch #: 942055

Sample: 656165-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/27/14 18:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.4	9.87	116	70-135	
o-Terphenyl	6.06	4.94	123	70-135	

Lab Batch #: 942055

Sample: 656165-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/27/14 19:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.9	9.87	121	70-135	
o-Terphenyl	6.24	4.94	126	70-135	

Lab Batch #: 942055

Sample: 485906-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/29/14 11:17

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.1	9.88	102	70-135	
o-Terphenyl	4.76	4.94	96	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 485906

Project ID:

073018

Lab Batch #: 941913

Sample: 941913-1-BKS

Matrix: Water

Date Analyzed: 05/21/2014

Date Prepared: 05/21/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0390	98	80-120	

Lab Batch #: 942062

Sample: 656169-1-BKS

Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<0.0280	10.0	10.0	100	80-120	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 485906

Project ID: 073018

Analyst: ARM

Date Prepared: 05/22/2014

Date Analyzed: 05/22/2014

Lab Batch ID: 941717

Sample: 655958-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0997	100	0.100	0.0968	97	3	70-125	25	
Toluene	<0.00100	0.100	0.0998	100	0.100	0.0969	97	3	70-125	25	
Ethylbenzene	<0.000800	0.100	0.106	106	0.100	0.104	104	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.218	109	0.200	0.212	106	3	70-131	25	
o-Xylene	<0.000700	0.100	0.110	110	0.100	0.107	107	3	71-133	25	

Analyst: ARM

Date Prepared: 05/22/2014

Date Analyzed: 05/23/2014

Lab Batch ID: 941718

Sample: 655961-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0972	97	0.100	0.0956	96	2	70-125	25	
Toluene	<0.00100	0.100	0.0967	97	0.100	0.0946	95	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.103	103	0.100	0.0998	100	3	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.210	105	0.200	0.203	102	3	70-131	25	
o-Xylene	<0.000700	0.100	0.107	107	0.100	0.104	104	3	71-133	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 485906

Project ID: 073018

Analyst: MKO

Date Prepared: 05/28/2014

Date Analyzed: 05/28/2014

Lab Batch ID: 942058

Sample: 656124-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.887	89	1.00	0.899	90	1	80-120	20	
Chromium	<0.000811	1.00	0.934	93	1.00	0.948	95	1	80-120	20	
Iron	0.0645	5.00	4.81	96	5.00	4.89	98	2	80-120	20	
Manganese	<0.00316	1.00	0.917	92	1.00	0.946	95	3	80-120	20	

Analyst: ANS

Date Prepared: 05/27/2014

Date Analyzed: 05/27/2014

Lab Batch ID: 941819

Sample: 941819-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1050	105	1000	1070	107	2	80-120	10	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 485906

Project ID: 073018

Analyst: ARM

Date Prepared: 05/27/2014

Date Analyzed: 05/27/2014

Lab Batch ID: 942055

Sample: 656165-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	93.6	95	98.7	94.1	95	1	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	98.2	99	98.7	98.6	100	0	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 485906

Lab Batch #: 942055

Date Analyzed: 05/29/2014

QC- Sample ID: 485906-001 S

Reporting Units: mg/L

Date Prepared: 05/27/2014

Batch #: 1

Project ID: 073018

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	94.9	96	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	90.6	92	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485906

Project ID: 073018

Lab Batch ID: 941717

QC- Sample ID: 485906-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/22/2014

Date Prepared: 05/22/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.0993	99	0.100	0.0998	100	1	70-125	25	
Toluene	<0.00100	0.100	0.0997	100	0.100	0.0997	100	0	70-125	25	
Ethylbenzene	<0.000800	0.100	0.108	108	0.100	0.108	108	0	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.221	111	0.200	0.220	110	0	70-131	25	
o-Xylene	<0.000700	0.100	0.110	110	0.100	0.110	110	0	71-133	25	

Lab Batch ID: 941718

QC- Sample ID: 485621-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/23/2014

Date Prepared: 05/22/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.00104	0.100	0.0971	96	0.100	0.0940	93	3	70-125	25	
Toluene	<0.00100	0.100	0.0958	96	0.100	0.0926	93	3	70-125	25	
Ethylbenzene	<0.000800	0.100	0.101	101	0.100	0.0977	98	3	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.206	103	0.200	0.199	100	3	70-131	25	
o-Xylene	<0.000700	0.100	0.105	105	0.100	0.101	101	4	71-133	25	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference RPD = $200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery [G] = $100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485906

Project ID: 073018

Lab Batch ID: 941913

QC- Sample ID: 485893-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/21/2014

Date Prepared: 05/21/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	0.00940	0.200	0.210	100	0.200	0.205	98	2	80-120	20	

Lab Batch ID: 942058

QC- Sample ID: 485795-007 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.00653	1.00	0.928	92	1.00	0.955	95	3	75-125	20	
Chromium	0.00193	1.00	0.929	93	1.00	0.957	96	3	75-125	20	
Iron	<0.0283	5.00	4.22	84	5.00	4.39	88	4	75-125	20	
Manganese	0.348	1.00	1.26	91	1.00	1.30	95	3	75-125	20	

Lab Batch ID: 942062

QC- Sample ID: 485906-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	485	1000	1460	98	1000	1480	100	1	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485906

Project ID: 073018

Lab Batch ID: 942062

QC- Sample ID: 485996-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	341	1000	1340	100	1000	1330	99	1	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 485906

Lab Batch #: 941819

Project ID: 073018

Date Analyzed: 05/27/2014 11:49

Date Prepared: 05/27/2014

Analyst: ANS

QC- Sample ID: 485795-003 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3160	3410	8	10	

Lab Batch #: 941819

Date Analyzed: 05/27/2014 11:49

Date Prepared: 05/27/2014

Analyst: ANS

QC- Sample ID: 485906-002 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1780	1780	0	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

☐ 4143 Greenbrier Drive, Stafford, TX 77477 281-240-4200
☐ 5332, Blackberry Drive, San Antonio, TX 78238 210-509-3334

☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300
☐ 12600 West 1-20 East, Odessa, TX 79765 432-563-1800

Serial #: 329774 Page 1 of 1

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

Company City CRA-Midland		Phone 432-686-0086																																	
Project Name-Location N. Eunice, NM		Previously done at XENCO Project ID 073018																																	
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other		Proj. Manager (PM) Mike Wisniewski																																	
E-mail Results to mwisniewski@cracorelab.com		Fax No: 432-686-0186																																	
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O. Bill to:																																			
Quote/Pricing:		P.O. No:																																	
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP		☐ Call for P.O.																																	
GAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:																																			
Special DLS (GW DW GAPP MDLs RLS See Lab PM Included Call PM)																																			
Sampler Name Chris Evans		Signature Chris Evans																																	
Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List BTEX-MTBE ETOH Oxyg VOHS VOAs	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	Dissolved Metals 6010B	TDS 5M2540C	Chlorides E300	TPH GRO + DRO 8015med	BTEX 8021B	Hexchrom 7196A	TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Remarks					
1 MW-935A 052114	5-21-14	0910		W	X	6															X	X	X	X	X	X	X								
2 MW-915A 052114	5-21-14	1045		W	X	6															X	X	X	X	X	X	X								
3 MW-21 052114	5-21-14	1135		W	X	6															X	X	X	X	X	X	X								
4 MW-22 052114	5-21-14	1220		W	X	6															X	X	X	X	X	X	X								
5 MW-23 052114	5-21-14	1325		W	X	6															X	X	X	X	X	X	X								
6 MW-4 052114	5-21-14	1420		W	X	6															X	X	X	X	X	X	X								
7 MW-4A 052114	5-21-14	1525		W	X	6															X	X	X	X	X	X	X								
8 Dup-9 052114	5-21-14	—		W	X	6															X	X	X	X	X	X	X								
9 Trip blank	5-21-14	—		W	X	6															X	X	X	X	X	X	X								
10 Trip blank	5-21-14	—		W	X	6															X	X	X	X	X	X	X								
Relinquished by (Initials and Sign) Chris Evans		Date & Time 5-21-14 16:14		Relinquished to (Initials and Sign) Jillian Martinez		Date & Time 5-21-14 16:17		Total Containers per COC:		Cooler Temp: °C																									

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asph Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)
 Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)
 Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)
 Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/21/2014 04:17:00 PM

Work Order #: 485906

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 05/22/2014

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 05/23/2014

Analytical Report 485795

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

02-JUN-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



02-JUN-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485795**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485795. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485795 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
IW-9-052014	W	05-20-14 09:40		485795-001
IW-8 052014	W	05-20-14 10:35		485795-002
IW-4 052014	W	05-20-14 11:45		485795-003
IW-3 052014	W	05-20-14 12:30		485795-004
IW-15 052014	W	05-20-14 13:10		485795-005
IW-16 052014	W	05-20-14 13:45		485795-006
IW-18 052014	W	05-20-14 14:45		485795-007
MW-44 052014	W	05-20-14 15:25		485795-008
IW-19 052014	W	05-20-14 16:10		485795-009
DUP-8 052014	W	05-20-14 00:00		485795-010
TRIP BLANK	W	05-20-14 00:00		485795-011



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018

Work Order Number(s): 485795

Report Date: 02-JUN-14

Date Received: 05/20/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-942058 Dissolved Metals per ICP by SW846 6010B

Iron detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Samples affected are: 485795-007, -003, -006, -004, -005, -001, -008, -010, -009, -002.



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-9-052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-001

Date Collected: 05.20.14 09.40

Date Received: 05.20.14 16.16

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4350	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941916

Date Prep: 05.23.14 10.41

Subcontractor: SUB: E871002

Prep seq: 655995

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	709	100	2.80	mg/L	05.23.14 15:21		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0186	0.0200	0.00550	mg/L	05.28.14 20:57	J	1
Chromium	7440-47-3	0.00746	0.0100	0.000811	mg/L	05.28.14 20:57	J	1
Iron	7439-89-6	1.61	0.200	0.0283	mg/L	05.28.14 20:57		1
Manganese	7439-96-5	5.23	0.0200	0.00316	mg/L	05.28.14 20:57		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.20.14 19:25	U	5



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-9-052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-001

Date Collected: 05.20.14 09.40

Date Received: 05.20.14 16.16

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	6.94	1.48	0.975	mg/L	05.27.14 20:14		1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	8.52	1.48	0.975	mg/L	05.27.14 20:14		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	5.36	1.48	0.975	mg/L	05.27.14 20:14		1
Total TPH	PHCG635	20.8		0.975	mg/L	05.27.14 20:14		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	129	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 01:57	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 01:57	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 01:57	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 01:57	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 01:57	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 01:57	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 01:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-8 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-002

Date Collected: 05.20.14 10.35

Date Received: 05.20.14 16.16

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2550	5.00	5.00	mg/L	05.22.14 15:07		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941927

Date Prep: 05.23.14 16.40

Subcontractor: SUB: E871002

Prep seq: 655994

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	530	100	2.80	mg/L	05.24.14 00:33		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00642	0.0200	0.00550	mg/L	05.28.14 21:03	J	1
Chromium	7440-47-3	0.00377	0.0100	0.000811	mg/L	05.28.14 21:03	J	1
Iron	7439-89-6	0.232	0.200	0.0283	mg/L	05.28.14 21:03	B	1
Manganese	7439-96-5	2.21	0.0200	0.00316	mg/L	05.28.14 21:03		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.20.14 19:25	U	5



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-8 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-002

Date Collected: 05.20.14 10.35

Date Received: 05.20.14 16.16

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.27.14 20:40	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.27.14 20:40	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.27.14 20:40	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.27.14 20:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	96	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 02:14	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 02:14	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 02:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 02:14	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 02:14	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 02:14	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 02:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	101	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-4 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-003

Date Collected: 05.20.14 11.45

Date Received: 05.20.14 16.16

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3160	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941927

Date Prep: 05.23.14 16.40

Subcontractor: SUB: E871002

Prep seq: 655994

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	972	100	2.80	mg/L	05.24.14 01:28		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 21:23	U	1
Chromium	7440-47-3	0.0108	0.0100	0.000811	mg/L	05.28.14 21:23		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 21:23	U	1
Manganese	7439-96-5	3.47	0.0200	0.00316	mg/L	05.28.14 21:23		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.20.14 19:25	U	5



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-4 052014

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-003

Date Collected: 05.20.14 11.45

Date Received: 05.20.14 16.16

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.27.14 21:05	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.27.14 21:05	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.27.14 21:05	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.27.14 21:05	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	86	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 02:30	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 02:30	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 02:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 02:30	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 02:30	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 02:30	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 02:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-3 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-004

Date Collected: 05.20.14 12.30

Date Received: 05.20.14 16.16

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3640	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941927

Date Prep: 05.23.14 16.40

Subcontractor: SUB: E871002

Prep seq: 655994

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1070	100	2.80	mg/L	05.24.14 01:47		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0183	0.0200	0.00550	mg/L	05.28.14 21:29	J	1
Chromium	7440-47-3	0.00673	0.0100	0.000811	mg/L	05.28.14 21:29	J	1
Iron	7439-89-6	2.22	0.200	0.0283	mg/L	05.28.14 21:29		1
Manganese	7439-96-5	8.57	0.0200	0.00316	mg/L	05.28.14 21:29		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.20.14 19:25	U	5



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-3 052014

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-004

Date Collected: 05.20.14 12.30

Date Received: 05.20.14 16.16

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.977	mg/L	05.27.14 21:30	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.977	mg/L	05.27.14 21:30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.977	mg/L	05.27.14 21:30	U	1
Total TPH	PHCG635	ND		0.977	mg/L	05.27.14 21:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	95	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 02:47	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 02:47	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 02:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 02:47	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 02:47	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 02:47	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 02:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	91	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-15 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-005

Date Collected: 05.20.14 13.10

Date Received: 05.20.14 16.16

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2760	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941927

Date Prep: 05.23.14 16.40

Subcontractor: SUB: E871002

Prep seq: 655994

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1030	100	2.80	mg/L	05.24.14 02:05		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0237	0.0200	0.00550	mg/L	05.28.14 21:36		1
Chromium	7440-47-3	0.0153	0.0100	0.000811	mg/L	05.28.14 21:36		1
Iron	7439-89-6	0.617	0.200	0.0283	mg/L	05.28.14 21:36		1
Manganese	7439-96-5	0.0939	0.0200	0.00316	mg/L	05.28.14 21:36		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.20.14 19:25	U	5



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-15 052014

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-005

Date Collected: 05.20.14 13.10

Date Received: 05.20.14 16.16

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.27.14 21:58	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.27.14 21:58	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.27.14 21:58	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.27.14 21:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	130	70 - 135	%		
o-Terphenyl	113	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 03:03	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 03:03	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 03:03	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 03:03	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 03:03	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 03:03	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 03:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	102	80 - 120	%		
4-Bromofluorobenzene	101	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-16 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-006

Date Collected: 05.20.14 13.45

Date Received: 05.20.14 16.16

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1660	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941927

Date Prep: 05.23.14 16.40

Subcontractor: SUB: E871002

Prep seq: 655994

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	478	100	2.80	mg/L	05.24.14 02:23		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00577	0.0200	0.00550	mg/L	05.28.14 21:42	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.28.14 21:42	U	1
Iron	7439-89-6	0.226	0.200	0.0283	mg/L	05.28.14 21:42	B	1
Manganese	7439-96-5	0.225	0.0200	0.00316	mg/L	05.28.14 21:42		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.20.14 19:25	U	5



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-16 052014

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-006

Date Collected: 05.20.14 13.45

Date Received: 05.20.14 16.16

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	06.02.14 10:53	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	06.02.14 10:53	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	06.02.14 10:53	U	1
Total TPH	PHCG635	ND		0.975	mg/L	06.02.14 10:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	119	70 - 135	%		
o-Terphenyl	129	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 03:20	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 03:20	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 03:20	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 03:20	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 03:20	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 03:20	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 03:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	93	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-18 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-007

Date Collected: 05.20.14 14.45

Date Received: 05.20.14 16.16

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1640	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941927

Date Prep: 05.23.14 16.40

Subcontractor: SUB: E871002

Prep seq: 655994

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	532	100	2.80	mg/L	05.24.14 02:42		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00653	0.0200	0.00550	mg/L	05.28.14 20:25	J	1
Chromium	7440-47-3	0.00193	0.0100	0.000811	mg/L	05.28.14 20:25	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 20:25	U	1
Manganese	7439-96-5	0.348	0.0200	0.00316	mg/L	05.28.14 20:25		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.20.14 19:25	U	1



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-18 052014

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-007

Date Collected: 05.20.14 14.45

Date Received: 05.20.14 16.16

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.28.14 07:52	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.28.14 07:52	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.28.14 07:52	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.28.14 07:52	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	87	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 03:37	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 03:37	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 03:37	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 03:37	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 03:37	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 03:37	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 03:37	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	104	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-44 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-008

Date Collected: 05.20.14 15.25

Date Received: 05.20.14 16.16

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1910	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941927

Date Prep: 05.23.14 16.40

Subcontractor: SUB: E871002

Prep seq: 655994

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	668	100	2.80	mg/L	05.24.14 03:00		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 21:49	U	1
Chromium	7440-47-3	0.00323	0.0100	0.000811	mg/L	05.28.14 21:49	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 21:49	U	1
Manganese	7439-96-5	0.235	0.0200	0.00316	mg/L	05.28.14 21:49		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.20.14 19:25	U	1



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-44 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-008

Date Collected: 05.20.14 15.25

Date Received: 05.20.14 16.16

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.28.14 08:20	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.28.14 08:20	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.28.14 08:20	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.28.14 08:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	106	70 - 135	%		
o-Terphenyl	93	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 03:52	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 03:52	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 03:52	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 03:52	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 03:52	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 03:52	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 03:52	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-19 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-009

Date Collected: 05.20.14 16.10

Date Received: 05.20.14 16.16

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1580	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941927

Date Prep: 05.23.14 16.40

Subcontractor: SUB: E871002

Prep seq: 655994

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	484	100	2.80	mg/L	05.24.14 03:19		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 21:55	U	1
Chromium	7440-47-3	0.00194	0.0100	0.000811	mg/L	05.28.14 21:55	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.28.14 21:55	U	1
Manganese	7439-96-5	0.0419	0.0200	0.00316	mg/L	05.28.14 21:55		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.20.14 19:25	U	1



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-19 052014

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-009

Date Collected: 05.20.14 16.10

Date Received: 05.20.14 16.16

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.28.14 08:46	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.28.14 08:46	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.28.14 08:46	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.28.14 08:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	94	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 04:09	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 04:09	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 04:09	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 04:09	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 04:09	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 04:09	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 04:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	101	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-8 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-010

Date Collected: 05.20.14 00.00

Date Received: 05.20.14 16.16

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2250	5.00	5.00	mg/L	05.27.14 11:49		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941927

Date Prep: 05.23.14 16.40

Subcontractor: SUB: E871002

Prep seq: 655994

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	530	100	2.80	mg/L	05.24.14 04:14		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00756	0.0200	0.00550	mg/L	05.28.14 22:02	J	1
Chromium	7440-47-3	0.00383	0.0100	0.000811	mg/L	05.28.14 22:02	J	1
Iron	7439-89-6	0.190	0.200	0.0283	mg/L	05.28.14 22:02	BJ	1
Manganese	7439-96-5	2.24	0.0200	0.00316	mg/L	05.28.14 22:02		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.20.14 19:25	U	5



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-8 052014**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-010

Date Collected: 05.20.14 00.00

Date Received: 05.20.14 16.16

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.29.14 09:58	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.29.14 09:58	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.29.14 09:58	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.29.14 09:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	81	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 04:25	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 04:25	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 04:25	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 04:25	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 04:25	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 04:25	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 04:25	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	97	80 - 120	%		
4-Bromofluorobenzene	101	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 485795-011

Date Collected: 05.20.14 00.00

Date Received: 05.20.14 16.16

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941718

Date Prep: 05.22.14 16.00

Prep seq: 655961

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 07:25	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 07:25	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 07:25	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 07:25	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 07:25	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.23.14 07:25	U	
Total BTEX		ND		0.000700	mg/L	05.23.14 07:25	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		

Sample Id: **655958-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 655958-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941717

Date Prep: 05.22.14 14.00

Prep seq: 655958

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.22.14 20:58	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.22.14 20:58	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.22.14 20:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.22.14 20:58	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.22.14 20:58	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655961-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655961-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941718

Date Prep: 05.22.14 16.00

Prep seq: 655961

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.23.14 05:47	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.23.14 05:47	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.23.14 05:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.23.14 05:47	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.23.14 05:47	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		

Sample Id: 655994-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655994-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941927

Date Prep: 05.23.14 16.40

Subcontractor: SUB: E871002

Prep seq: 655994

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.23.14 23:19	U	1

Sample Id: 655995-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655995-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 941916

Date Prep: 05.23.14 10.41

Subcontractor: SUB: E871002

Prep seq: 655995

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.23.14 10:26	U	1
Nitrite as N	14797-65-0	ND	0.0300	0.00800	mg/L	05.23.14 10:26	U	1
Nitrate as N	14797-55-8	ND	0.0230	0.00400	mg/L	05.23.14 10:26	U	1



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 656124-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656124-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942058

Date Prep: 05.28.14 11.00

Subcontractor: SUB: E871002

Prep seq: 656124

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.28.14 20:05	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.28.14 20:05	U	1
Iron	7439-89-6	0.0645	0.200	0.0283	mg/L	05.28.14 20:05	J	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.28.14 20:05	U	1

Sample Id: 656165-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656165-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942055

Date Prep: 05.27.14 14.00

Prep seq: 656165

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.27.14 18:31	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.27.14 18:31	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.27.14 18:31	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.27.14 18:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Sample Id: 941636-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 941636-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941636

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.22.14 15:07	U	1



Certificate of Analytical Results

485795



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **941819-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 941819-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941819

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.27.14 11:49	U	1

Sample Id: **941832-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 941832-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941832

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.20.14 19:25	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Sample Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485795,

Project ID: 073018

Lab Batch #: 941717

Sample: 655958-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/22/14 20:58		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0269	0.0300	90	80-120
4-Bromofluorobenzene		0.0279	0.0300	93	80-120

Lab Batch #: 941717

Sample: 655958-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/22/14 21:15		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0284	0.0300	95	80-120
4-Bromofluorobenzene		0.0343	0.0300	114	80-120

Lab Batch #: 941717

Sample: 655958-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/22/14 21:31		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0285	0.0300	95	80-120
4-Bromofluorobenzene		0.0336	0.0300	112	80-120

Lab Batch #: 941717

Sample: 485906-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/22/14 21:48		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0284	0.0300	95	80-120
4-Bromofluorobenzene		0.0340	0.0300	113	80-120

Lab Batch #: 941717

Sample: 485906-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/22/14 22:04		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0283	0.0300	94	80-120
4-Bromofluorobenzene		0.0336	0.0300	112	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485795,

Project ID: 073018

Lab Batch #: 941718

Sample: 655961-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/23/14 05:47	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0273	0.0300	91	80-120
4-Bromofluorobenzene		0.0290	0.0300	97	80-120

Lab Batch #: 941718

Sample: 655961-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/23/14 06:03	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0284	0.0300	95	80-120
4-Bromofluorobenzene		0.0345	0.0300	115	80-120

Lab Batch #: 941718

Sample: 655961-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/23/14 06:20	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0284	0.0300	95	80-120
4-Bromofluorobenzene		0.0344	0.0300	115	80-120

Lab Batch #: 941718

Sample: 485621-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/23/14 06:37	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0283	0.0300	94	80-120
4-Bromofluorobenzene		0.0340	0.0300	113	80-120

Lab Batch #: 941718

Sample: 485621-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/23/14 06:52	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0283	0.0300	94	80-120
4-Bromofluorobenzene		0.0333	0.0300	111	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485795,

Project ID: 073018

Lab Batch #: 942055

Sample: 656165-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/27/14 18:31		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.98	9.87	101	70-135
o-Terphenyl		4.49	4.94	91	70-135

Lab Batch #: 942055

Sample: 656165-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/27/14 18:58		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.4	9.87	116	70-135
o-Terphenyl		6.06	4.94	123	70-135

Lab Batch #: 942055

Sample: 656165-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/27/14 19:25		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		11.9	9.87	121	70-135
o-Terphenyl		6.24	4.94	126	70-135

Lab Batch #: 942055

Sample: 485906-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/29/14 11:17		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.1	9.88	102	70-135
o-Terphenyl		4.76	4.94	96	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 485795

Project ID:

073018

Lab Batch #: 941832

Sample: 941832-1-BKS

Matrix: Water

Date Analyzed: 05/20/2014

Date Prepared: 05/20/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0380	95	80-120	

Lab Batch #: 941916

Sample: 655995-1-BKS

Matrix: Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	<0.0280	10.0	9.84	98	80-120	

Lab Batch #: 941927

Sample: 655994-1-BKS

Matrix: Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	<0.0280	10.0	10.4	104	80-120	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 485795

Project ID: 073018

Analyst: ARM

Date Prepared: 05/22/2014

Date Analyzed: 05/22/2014

Lab Batch ID: 941717

Sample: 655958-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0997	100	0.100	0.0968	97	3	70-125	25	
Toluene	<0.00100	0.100	0.0998	100	0.100	0.0969	97	3	70-125	25	
Ethylbenzene	<0.000800	0.100	0.106	106	0.100	0.104	104	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.218	109	0.200	0.212	106	3	70-131	25	
o-Xylene	<0.000700	0.100	0.110	110	0.100	0.107	107	3	71-133	25	

Analyst: ARM

Date Prepared: 05/22/2014

Date Analyzed: 05/23/2014

Lab Batch ID: 941718

Sample: 655961-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0972	97	0.100	0.0956	96	2	70-125	25	
Toluene	<0.00100	0.100	0.0967	97	0.100	0.0946	95	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.103	103	0.100	0.0998	100	3	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.210	105	0.200	0.203	102	3	70-131	25	
o-Xylene	<0.000700	0.100	0.107	107	0.100	0.104	104	3	71-133	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 485795

Project ID: 073018

Analyst: MKO

Date Prepared: 05/28/2014

Date Analyzed: 05/28/2014

Lab Batch ID: 942058

Sample: 656124-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.887	89	1.00	0.899	90	1	80-120	20	
Chromium	<0.000811	1.00	0.934	93	1.00	0.948	95	1	80-120	20	
Iron	0.0645	5.00	4.81	96	5.00	4.89	98	2	80-120	20	
Manganese	<0.00316	1.00	0.917	92	1.00	0.946	95	3	80-120	20	

Analyst: ANS

Date Prepared: 05/22/2014

Date Analyzed: 05/22/2014

Lab Batch ID: 941636

Sample: 941636-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1140	114	1000	1060	106	7	80-120	10	

Analyst: ANS

Date Prepared: 05/27/2014

Date Analyzed: 05/27/2014

Lab Batch ID: 941819

Sample: 941819-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1050	105	1000	1070	107	2	80-120	10	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 485795

Project ID: 073018

Analyst: ARM

Date Prepared: 05/27/2014

Date Analyzed: 05/27/2014

Lab Batch ID: 942055

Sample: 656165-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	93.6	95	98.7	94.1	95	1	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	98.2	99	98.7	98.6	100	0	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 485795

Lab Batch #: 942055

Date Analyzed: 05/29/2014

QC- Sample ID: 485906-001 S

Reporting Units: mg/L

Date Prepared: 05/27/2014

Batch #: 1

Project ID: 073018

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	94.9	96	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	90.6	92	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 485795

Project ID: 073018

Lab Batch ID: 941717

QC- Sample ID: 485906-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/22/2014

Date Prepared: 05/22/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.0993	99	0.100	0.0998	100	1	70-125	25	
Toluene	<0.00100	0.100	0.0997	100	0.100	0.0997	100	0	70-125	25	
Ethylbenzene	<0.000800	0.100	0.108	108	0.100	0.108	108	0	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.221	111	0.200	0.220	110	0	70-131	25	
o-Xylene	<0.000700	0.100	0.110	110	0.100	0.110	110	0	71-133	25	

Lab Batch ID: 941718

QC- Sample ID: 485621-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/23/2014

Date Prepared: 05/22/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.00104	0.100	0.0971	96	0.100	0.0940	93	3	70-125	25	
Toluene	<0.00100	0.100	0.0958	96	0.100	0.0926	93	3	70-125	25	
Ethylbenzene	<0.000800	0.100	0.101	101	0.100	0.0977	98	3	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.206	103	0.200	0.199	100	3	70-131	25	
o-Xylene	<0.000700	0.100	0.105	105	0.100	0.101	101	4	71-133	25	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference RPD = $200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery [G] = $100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 485795

Project ID: 073018

Lab Batch ID: 941832

QC- Sample ID: 485795-009 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/20/2014

Date Prepared: 05/20/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	<0.00500	0.200	0.203	102	0.200	0.205	103	1	80-120	20	

Lab Batch ID: 942058

QC- Sample ID: 485795-007 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.00653	1.00	0.928	92	1.00	0.955	95	3	75-125	20	
Chromium	0.00193	1.00	0.929	93	1.00	0.957	96	3	75-125	20	
Iron	<0.0283	5.00	4.22	84	5.00	4.39	88	4	75-125	20	
Manganese	0.348	1.00	1.26	91	1.00	1.30	95	3	75-125	20	

Lab Batch ID: 941916

QC- Sample ID: 485940-001 S

Batch #: 1 Matrix: Waste Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	31.0	10.0	41.7	107	10.0	42.0	110	1	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485795

Project ID: 073018

Lab Batch ID: 941916

QC- Sample ID: 486077-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	198	200	396	99	200	397	100	0	80-120	20	

Lab Batch ID: 941927

QC- Sample ID: 485795-002 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/24/2014

Date Prepared: 05/23/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	530	1000	1550	102	1000	1550	102	0	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 485795

Lab Batch #: 941636

Project ID: 073018

Date Analyzed: 05/22/2014 15:07

Date Prepared: 05/22/2014

Analyst: ANS

QC- Sample ID: 485610-004 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1810	1750	3	10	

Lab Batch #: 941636

Date Analyzed: 05/22/2014 15:07

Date Prepared: 05/22/2014

Analyst: ANS

QC- Sample ID: 485741-003 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3200	3490	9	10	

Lab Batch #: 941819

Date Analyzed: 05/27/2014 11:49

Date Prepared: 05/27/2014

Analyst: ANS

QC- Sample ID: 485795-003 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3160	3410	8	10	

Lab Batch #: 941819

Date Analyzed: 05/27/2014 11:49

Date Prepared: 05/27/2014

Analyst: ANS

QC- Sample ID: 485906-002 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1780	1780	0	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

Final 1.000



ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

☐ 4143 Greenbrier Drive, Stafford, TX 77477 281-240-4200
☐ 5332, Blackberry Drive, San Antonio, TX 78238 210-509-3334
☐ 9701 Harry Hines Blvd., Dallas, TX 75220 214-902-0300
☐ 12800 West I-20 East, Odessa, TX 79765 432-563-1800
Serial #: 329775 Page 2 of 2

Company-City: CRA-Midland Phone: 432-686-0886
Project Name-Location: N. Eunice, NM Previously done at XENCO Project ID: 073018
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other: Mike Wiskowicki
E-mail Results to: mwiskowicki@cravworld.com Fax No: 432-686-0886
Invoice to: ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.
Bill to:
Quote/Pricing: P.O. No: ☐ Call for P.O.
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:
Special DLS (GW DW QAPP MDLs RLS See Lab PM Included Call PM)

Lab Only: TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific.
It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.

Remarks: Addn: PAH above mg/L W, mg/Kg S Highest Hit
Hold Samples (Surcharges will apply and are pre-approved)
Sample Clean-ups are pre-approved as needed

Sample Name: Chris Evans Signature: [Signature]
Sample ID: 5-20-14 Sampling Date: 5-20-14 Time: 1:00 PM
Depth ft' in" m: 1 Matrix: W Composite: Grab: # Containers: 2 Container Size: Container Type: Preservatives: VOA: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs
VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other: PAHs SIM 8310 8270
TX-1005 DRO GRO MA EPH MA VPH
SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL
OC Pesticides PCBs Herbicides OP Pesticides
Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx2
SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)
EDB / DBCP
X BTEX 8021B
TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d
Addn: Date Rcv. by: From:

Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List	VOA: PP	PAHs	TX-1005	SVOCs: Full-List	OC Pesticides	Metals: RCRA-8	SPLP - TCLP	EDB / DBCP	TATASAP	Addn:	Hold Samples	Sample Clean-ups	Remarks
1	5-20-14	1:00 PM	1	W			2																	
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
1	5-20-14	1:00 PM	1	W			2																	
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)
Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)
Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.
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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/20/2014 04:16:00 PM

Work Order #: 485795

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/21/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/21/2014

Analytical Report 486065

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

02-JUN-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



02-JUN-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **486065**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 486065. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 486065 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Certified and approved by numerous States and Agencies.

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 486065



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-37-052314	W	05-23-14 09:00		486065-001
MW-46 052314	W	05-23-14 08:40		486065-002
TRIP BLANK	W	05-23-14 00:00		486065-003



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 486065

Report Date: 02-JUN-14
Date Received: 05/23/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-942204 Dissolved Metals per ICP by SW846 6010B

Manganese detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Samples affected are: 486065-002, -001.



Certificate of Analytical Results

486065



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-37-052314**

Matrix: Water

Sample Depth:

Lab Sample Id: 486065-001

Date Collected: 05.23.14 09:00

Date Received: 05.23.14 11:00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 942076

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2120	5.00	5.00	mg/L	05.29.14 14:33		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942149

Date Prep: 05.29.14 14:35

Subcontractor: SUB: E871002

Prep seq: 656229

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	679	100	2.80	mg/L	05.29.14 16:21		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10:00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0225	0.0200	0.00550	mg/L	05.29.14 20:14		1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.29.14 20:14	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 20:14	U	1
Manganese	7439-96-5	0.108	0.0200	0.00316	mg/L	05.29.14 20:14		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942033

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.23.14 09:20	U	5



Certificate of Analytical Results

486065



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-37-052314**

Matrix: Water

Sample Depth:

Lab Sample Id: 486065-001

Date Collected: 05.23.14 09.00

Date Received: 05.23.14 11.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	1.86	1.48	0.976	mg/L	05.31.14 18:17		1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	1.25	1.48	0.976	mg/L	05.31.14 18:17	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 18:17	U	1
Total TPH	PHCG635	3.11		0.976	mg/L	05.31.14 18:17		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	84	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.996	0.00500	0.00400	mg/L	05.30.14 10:15		5
Toluene	108-88-3	ND	0.0100	0.00500	mg/L	05.30.14 10:15	U	5
Ethylbenzene	100-41-4	0.113	0.00500	0.00400	mg/L	05.30.14 10:15		5
m,p-Xylenes	179601-23-1	ND	0.0100	0.00700	mg/L	05.30.14 10:15	U	5
o-Xylene	95-47-6	ND	0.00500	0.00350	mg/L	05.30.14 10:15	U	5
Total Xylenes	1330-20-7	ND		0.00350	mg/L	05.30.14 10:15	U	
Total BTEX		1.11		0.00350	mg/L	05.30.14 10:15		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

486065



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-46 052314**

Matrix: Water

Sample Depth:

Lab Sample Id: 486065-002

Date Collected: 05.23.14 08.40

Date Received: 05.23.14 11.00

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 942076

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1290	5.00	5.00	mg/L	05.29.14 14:33		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942149

Date Prep: 05.29.14 14.35

Subcontractor: SUB: E871002

Prep seq: 656229

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	177	10.0	0.280	mg/L	05.30.14 12:03		10

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0247	0.0200	0.00550	mg/L	05.29.14 20:33		1
Chromium	7440-47-3	0.00165	0.0100	0.000811	mg/L	05.29.14 20:33	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 20:33	U	1
Manganese	7439-96-5	0.568	0.0200	0.00316	mg/L	05.29.14 20:33		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942033

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0100	0.0100	0.00500	mg/L	05.23.14 09:20	J	1



Certificate of Analytical Results

486065



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-46 052314**

Matrix: Water

Sample Depth:

Lab Sample Id: 486065-002

Date Collected: 05.23.14 08.40

Date Received: 05.23.14 11.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	2.30	1.48	0.976	mg/L	05.31.14 18:41		1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	1.41	1.48	0.976	mg/L	05.31.14 18:41	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 18:41	U	1
Total TPH	PHCG635	3.71		0.976	mg/L	05.31.14 18:41		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	82	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0692	0.00100	0.000800	mg/L	05.30.14 03:38		1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 03:38	U	1
Ethylbenzene	100-41-4	0.117	0.00100	0.000800	mg/L	05.30.14 03:38		1
m,p-Xylenes	179601-23-1	0.00973	0.00200	0.00140	mg/L	05.30.14 03:38		1
o-Xylene	95-47-6	0.0157	0.00100	0.000700	mg/L	05.30.14 03:38		1
Total Xylenes	1330-20-7	0.0254		0.000700	mg/L	05.30.14 03:38		
Total BTEX		0.212		0.000700	mg/L	05.30.14 03:38		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	109	80 - 120	%		



Certificate of Analytical Results

486065



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 486065-003

Date Collected: 05.23.14 00.00

Date Received: 05.23.14 11.00

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 22:42	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 22:42	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 22:42	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 22:42	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 22:42	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 22:42	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 22:42	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		

Sample Id: **656172-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 656172-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.29.14 17:57	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.29.14 17:57	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 17:57	U	1
Manganese	7439-96-5	0.00500	0.0200	0.00316	mg/L	05.29.14 17:57	J	1

Sample Id: **656229-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 656229-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942149

Date Prep: 05.29.14 14.35

Subcontractor: SUB: E871002

Prep seq: 656229

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.29.14 15:23	U	1



Certificate of Analytical Results

486065



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 656230-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656230-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 20:31	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 20:31	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 20:31	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 20:31	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 20:31	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		

Sample Id: 656307-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656307-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	82	70 - 135	%		



Certificate of Analytical Results

486065



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **942033-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 942033-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942033

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.23.14 09:20	U	1

Sample Id: **942076-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 942076-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 942076

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.29.14 14:33	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 486065,

Project ID: 073018

Lab Batch #: 942152

Sample: 656230-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/29/14 20:31	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0260	0.0300	87	80-120
4-Bromofluorobenzene		0.0278	0.0300	93	80-120

Lab Batch #: 942152

Sample: 656230-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/29/14 20:47	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0269	0.0300	90	80-120
4-Bromofluorobenzene		0.0324	0.0300	108	80-120

Lab Batch #: 942152

Sample: 656230-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/29/14 21:03	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0269	0.0300	90	80-120
4-Bromofluorobenzene		0.0326	0.0300	109	80-120

Lab Batch #: 942152

Sample: 486062-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/29/14 21:20	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0275	0.0300	92	80-120
4-Bromofluorobenzene		0.0331	0.0300	110	80-120

Lab Batch #: 942152

Sample: 486062-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/29/14 21:36	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0275	0.0300	92	80-120
4-Bromofluorobenzene		0.0319	0.0300	106	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 486065,

Project ID: 073018

Lab Batch #: 942305

Sample: 656307-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.86	9.88	100	70-135	
o-Terphenyl	4.05	4.94	82	70-135	

Lab Batch #: 942305

Sample: 656307-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.73	9.88	78	70-135	
o-Terphenyl	4.06	4.94	82	70-135	

Lab Batch #: 942305

Sample: 656307-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.96	9.88	81	70-135	
o-Terphenyl	3.94	4.94	80	70-135	

Lab Batch #: 942305

Sample: 486227-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 23:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.8	9.88	109	70-135	
o-Terphenyl	5.51	4.94	112	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 486065

Project ID:

073018

Lab Batch #: 942033

Sample: 942033-1-BKS

Matrix: Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0383	96	80-120	

Lab Batch #: 942149

Sample: 656229-1-BKS

Matrix: Water

Date Analyzed: 05/29/2014

Date Prepared: 05/29/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	<0.0280	10.0	9.92	99	80-120	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 486065

Project ID: 073018

Analyst: ARM

Date Prepared: 05/29/2014

Date Analyzed: 05/29/2014

Lab Batch ID: 942152

Sample: 656230-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0997	100	0.100	0.100	100	0	70-125	25	
Toluene	<0.00100	0.100	0.0992	99	0.100	0.100	100	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.107	107	0.100	0.108	108	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.220	110	0.200	0.222	111	1	70-131	25	
o-Xylene	<0.000700	0.100	0.110	110	0.100	0.111	111	1	71-133	25	

Analyst: MKO

Date Prepared: 05/29/2014

Date Analyzed: 05/29/2014

Lab Batch ID: 942204

Sample: 656172-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.967	97	1.00	0.932	93	4	80-120	20	
Chromium	<0.000811	1.00	1.03	103	1.00	0.990	99	4	80-120	20	
Iron	<0.0283	5.00	5.17	103	5.00	4.96	99	4	80-120	20	
Manganese	0.00500	1.00	0.996	100	1.00	0.960	96	4	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 486065

Project ID: 073018

Analyst: ANS

Date Prepared: 05/29/2014

Date Analyzed: 05/29/2014

Lab Batch ID: 942076

Sample: 942076-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1050	105	1000	1050	105	0	80-120	10	

Analyst: ARM

Date Prepared: 05/30/2014

Date Analyzed: 05/31/2014

Lab Batch ID: 942305

Sample: 656307-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	85.8	87	98.8	89.7	91	4	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	92.8	94	98.8	91.6	93	1	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 486065

Lab Batch #: 942305

Date Analyzed: 05/31/2014

QC- Sample ID: 486227-001 S

Reporting Units: mg/L

Date Prepared: 05/30/2014

Batch #: 1

Project ID: 073018

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	88.1	89	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	86.6	88	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 486065

Project ID: 073018

Lab Batch ID: 942152

QC- Sample ID: 486062-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/29/2014

Date Prepared: 05/29/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.104	104	0.100	0.0960	96	8	70-125	25	
Toluene	<0.00100	0.100	0.103	103	0.100	0.0948	95	8	70-125	25	
Ethylbenzene	<0.000800	0.100	0.111	111	0.100	0.102	102	8	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.229	115	0.200	0.210	105	9	70-131	25	
o-Xylene	<0.000700	0.100	0.115	115	0.100	0.106	106	8	71-133	25	

Lab Batch ID: 942033

QC- Sample ID: 485996-011 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	0.306	0.200	0.500	97	0.200	0.502	98	0	80-120	20	

Lab Batch ID: 942204

QC- Sample ID: 485996-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/29/2014

Date Prepared: 05/29/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.0108	1.00	0.966	96	1.00	1.03	102	6	75-125	20	
Chromium	0.0207	1.00	0.996	98	1.00	1.06	104	6	75-125	20	
Iron	<0.0283	5.00	4.57	91	5.00	4.90	98	7	75-125	20	
Manganese	0.00779	1.00	0.958	95	1.00	1.03	102	7	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 486065

Project ID: 073018

Lab Batch ID: 942149

QC- Sample ID: 485993-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/29/2014

Date Prepared: 05/29/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	146	100	240	94	100	243	97	1	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 486065

Lab Batch #: 942076

Project ID: 073018

Date Analyzed: 05/29/2014 14:33

Date Prepared: 05/29/2014

Analyst: ANS

QC- Sample ID: 486065-001 D

Batch #: 1

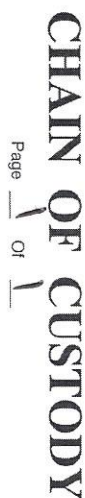
Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	2120	2090	1	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

4700

[illegible]

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns. XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/23/2014 11:00:00 AM

Work Order #: 486065

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	0
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/23/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/23/2014

Analytical Report 485470

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

03-JUN-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



03-JUN-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485470**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485470. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485470 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-57SA 051414	W	05-14-14 10:25		485470-001
MW-55SA 051414	W	05-14-14 11:10		485470-002
MW-74SA 051414	W	05-14-14 13:00		485470-003
MW-75SA 051414	W	05-14-14 13:50		485470-004
MW-76SA 051414	W	05-14-14 14:30		485470-005
MW-65SA 051414	W	05-14-14 12:30		485470-006
MW-83SA 051414	W	05-14-14 13:45		485470-007
MW-86SA 051414	W	05-14-14 16:15		485470-008
MW-85SA 051414	W	05-14-14 14:45		485470-009
MW-85SA 051414	W	05-14-14 16:00		485470-010
DUP-5 051414	W	05-14-14 00:00		485470-011
TRIP BLANK	W	05-14-14 00:00		485470-012



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018

Work Order Number(s): 485470

Report Date: 03-JUN-14

Date Received: 05/14/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-941107 Inorganic Anions by EPA 300/300.1

Chloride recovered below QC limits in the Matrix Spike. Samples affected are: 485396-001.

The Laboratory Control Sample for Chloride is within laboratory Control Limits

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-57SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-001

Date Collected: 05.14.14 10.25

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 20.19

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	61.9	5.00	0.140	mg/L	05.15.14 20:19		5

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	565	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0249	0.0200	0.00550	mg/L	05.21.14 21:14		1
Chromium	7440-47-3	0.000825	0.0100	0.000811	mg/L	05.21.14 21:14	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 21:14	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.21.14 21:14	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941494

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.14.14 19:15	U	1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-57SA 051414

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-001

Date Collected: 05.14.14 10.25

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 06:51	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 06:51	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 06:51	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 06:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	106	70 - 135	%		
o-Terphenyl	115	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 14:07	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 14:07	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 14:07	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 14:07	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 14:07	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 14:07	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 14:07	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	83	80 - 120	%		
4-Bromofluorobenzene	86	80 - 120	%		

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-55SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-002

Date Collected: 05.14.14 11.10

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 20.41

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	602	10.0	0.280	mg/L	05.15.14 20:41	X	10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2480	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0172	0.0200	0.00550	mg/L	05.21.14 21:46	J	1
Chromium	7440-47-3	0.278	0.0100	0.000811	mg/L	05.21.14 21:46		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 21:46	U	1
Manganese	7439-96-5	0.00419	0.0200	0.00316	mg/L	05.21.14 21:46	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941494

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.241	0.0100	0.00500	mg/L	05.14.14 19:15		1

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-55SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-002

Date Collected: 05.14.14 11.10

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.20.14 07:46	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.20.14 07:46	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.20.14 07:46	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.20.14 07:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	117	70 - 135	%		
o-Terphenyl	127	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 14:23	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 14:23	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 14:23	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 14:23	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 14:23	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 14:23	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 14:23	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	83	80 - 120	%		
4-Bromofluorobenzene	86	80 - 120	%		

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-74SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-003

Date Collected: 05.14.14 13.00

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 21.27

Prep seq: 655485

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	596	10.0	0.280	mg/L	05.15.14 21:27		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2150	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0199	0.0200	0.00550	mg/L	05.21.14 21:53	J	1
Chromium	7440-47-3	0.00988	0.0100	0.000811	mg/L	05.21.14 21:53	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 21:53	U	1
Manganese	7439-96-5	0.00841	0.0200	0.00316	mg/L	05.21.14 21:53	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941494

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.14.14 19:15	U	1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-74SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-003

Date Collected: 05.14.14 13.00

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.20.14 08:35	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.20.14 08:35	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.20.14 08:35	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.20.14 08:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	119	70 - 135	%		
o-Terphenyl	127	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 14:40	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 14:40	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 14:40	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 14:40	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 14:40	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 14:40	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 14:40	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	82	80 - 120	%		
4-Bromofluorobenzene	86	80 - 120	%		

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-75SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-004

Date Collected: 05.14.14 13.50

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 21.49

Prep seq: 655485

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	444	10.0	0.280	mg/L	05.15.14 21:49		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2090	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0217	0.0200	0.00550	mg/L	05.21.14 22:12		1
Chromium	7440-47-3	0.00211	0.0100	0.000811	mg/L	05.21.14 22:12	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 22:12	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.21.14 22:12	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941494

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.14.14 19:15	U	1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-75SA 051414

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-004

Date Collected: 05.14.14 13.50

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.20.14 09:00	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.20.14 09:00	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.20.14 09:00	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.20.14 09:00	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	122	70 - 135	%		
o-Terphenyl	127	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 14:57	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 14:57	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 14:57	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 14:57	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 14:57	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 14:57	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 14:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	83	80 - 120	%		
4-Bromofluorobenzene	87	80 - 120	%		

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-76SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-005

Date Collected: 05.14.14 14.30

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 22.12

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	397	10.0	0.280	mg/L	05.15.14 22:12		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1940	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0193	0.0200	0.00550	mg/L	05.21.14 22:19	J	1
Chromium	7440-47-3	0.00211	0.0100	0.000811	mg/L	05.21.14 22:19	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 22:19	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.21.14 22:19	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941494

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.14.14 19:15	U	1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-76SA 051414

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-005

Date Collected: 05.14.14 14.30

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 09:24	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 09:24	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 09:24	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 09:24	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	113	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 15:13	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 15:13	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 15:13	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 15:13	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 15:13	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 15:13	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 15:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-65SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-006

Date Collected: 05.14.14 12.30

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 22.35

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1050	20.0	0.560	mg/L	05.15.14 22:35		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3290	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0162	0.0200	0.00550	mg/L	05.21.14 22:25	J	1
Chromium	7440-47-3	0.0355	0.0100	0.000811	mg/L	05.21.14 22:25		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 22:25	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.21.14 22:25	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941494

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0273	0.0100	0.00500	mg/L	05.14.14 19:15		1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-65SA 051414

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-006

Date Collected: 05.14.14 12.30

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 09:49	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 09:49	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 09:49	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 09:49	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	125	70 - 135	%		
o-Terphenyl	127	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 15:30	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 15:30	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 15:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 15:30	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 15:30	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 15:30	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 15:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	84	80 - 120	%		
4-Bromofluorobenzene	90	80 - 120	%		

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-83SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-007

Date Collected: 05.14.14 13.45

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 22.57

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1060	20.0	0.560	mg/L	05.15.14 22:57		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3430	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0167	0.0200	0.00550	mg/L	05.21.14 22:31	J	1
Chromium	7440-47-3	0.00157	0.0100	0.000811	mg/L	05.21.14 22:31	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 22:31	U	1
Manganese	7439-96-5	0.0454	0.0200	0.00316	mg/L	05.21.14 22:31		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941494

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.14.14 19:15	U	1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-83SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-007

Date Collected: 05.14.14 13.45

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 10:13	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 10:13	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 10:13	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 10:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	108	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 16:18	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 16:18	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 16:18	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 16:18	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 16:18	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 16:18	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 16:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	80 - 120	%		
4-Bromofluorobenzene	86	80 - 120	%		

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-86SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-008

Date Collected: 05.14.14 16.15

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 23.20

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	605	10.0	0.280	mg/L	05.15.14 23:20		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2090	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0137	0.0200	0.00550	mg/L	05.21.14 22:38	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.21.14 22:38	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 22:38	U	1
Manganese	7439-96-5	0.00416	0.0200	0.00316	mg/L	05.21.14 22:38	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941494

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.14.14 19:15	U	1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-86SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-008

Date Collected: 05.14.14 16.15

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.20.14 10:38	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.20.14 10:38	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.20.14 10:38	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.20.14 10:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 16:35	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 16:35	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 16:35	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 16:35	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 16:35	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 16:35	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 16:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	80 - 120	%		
4-Bromofluorobenzene	87	80 - 120	%		

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-85SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-009

Date Collected: 05.14.14 14.45

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.15.14 23.43

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	812	20.0	0.560	mg/L	05.15.14 23:43		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2880	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0138	0.0200	0.00550	mg/L	05.21.14 22:45	J	1
Chromium	7440-47-3	0.00238	0.0100	0.000811	mg/L	05.21.14 22:45	J	1
Iron	7439-89-6	0.0537	0.200	0.0283	mg/L	05.21.14 22:45	J	1
Manganese	7439-96-5	0.388	0.0200	0.00316	mg/L	05.21.14 22:45		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941495

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.14.14 19:14	U	1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-85SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-009

Date Collected: 05.14.14 14.45

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.20.14 11:03	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.20.14 11:03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.20.14 11:03	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.20.14 11:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	113	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 16:52	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 16:52	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 16:52	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 16:52	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 16:52	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 16:52	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 16:52	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-85SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-010

Date Collected: 05.14.14 16.00

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.16.14 00.51

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1070	20.0	0.560	mg/L	05.16.14 00:51		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3070	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0164	0.0200	0.00550	mg/L	06.03.14 00:29	J	1
Chromium	7440-47-3	0.0241	0.0100	0.000811	mg/L	05.21.14 22:51		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 22:51	U	1
Manganese	7439-96-5	0.00379	0.0200	0.00316	mg/L	05.21.14 22:51	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941495

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0186	0.0100	0.00500	mg/L	05.14.14 19:14		1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-85SA 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-010

Date Collected: 05.14.14 16.00

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.20.14 11:27	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.20.14 11:27	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.20.14 11:27	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.20.14 11:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 17:08	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 17:08	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 17:08	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 17:08	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 17:08	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 17:08	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 17:08	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-5 051414**

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-011

Date Collected: 05.14.14 00.00

Date Received: 05.14.14 17.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941107

Date Prep: 05.16.14 01.13

Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	413	10.0	0.280	mg/L	05.16.14 01:13		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 941363

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2080	5.00	5.00	mg/L	05.20.14 13:32		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 941624

Date Prep: 05.20.14 10.20

Subcontractor: SUB: E871002

Prep seq: 655766

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0185	0.0200	0.00550	mg/L	05.21.14 22:58	J	1
Chromium	7440-47-3	0.00233	0.0100	0.000811	mg/L	05.21.14 22:58	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 22:58	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.21.14 22:58	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 941495

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.14.14 19:14	U	1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: DUP-5 051414

Matrix: Water

Sample Depth:

Lab Sample Id: 485470-011

Date Collected: 05.14.14 00.00

Date Received: 05.14.14 17.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.20.14 13:07	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 13:07	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 13:07	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.20.14 13:07	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 17:25	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 17:25	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 17:25	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 17:25	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 17:25	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 17:25	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 17:25	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	90	80 - 120	%		



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK** Matrix: Water Sample Depth:
Lab Sample Id: 485470-012 Date Collected: 05.14.14 00.00 Date Received: 05.14.14 17.00
Analytical Method: BTEX by EPA 8021B Prep Method: 5030B
Analyst: ARM % Moist: Tech: ARM
Seq Number: 941291 Date Prep: 05.19.14 09.00
Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 13:50	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 13:50	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 13:50	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 13:50	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 13:50	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.19.14 13:50	U	
Total BTEX		ND		0.000700	mg/L	05.19.14 13:50	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	89	80 - 120	%		

Sample Id: **655485-1-BLK** Matrix: Water Sample Depth:
Lab Sample Id: 655485-1-BLK Date Collected: Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1 Prep Method: E300P
Analyst: RKO % Moist: Tech: RKO
Seq Number: 941107 Date Prep: 05.15.14 13.54
Prep seq: 655485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.15.14 13:54	U	1



Certificate of Analytical Results

485470



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655687-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655687-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941291

Date Prep: 05.19.14 09.00

Prep seq: 655687

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.19.14 11:06	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.19.14 11:06	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.19.14 11:06	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.19.14 11:06	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.19.14 11:06	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	84	80 - 120	%		
4-Bromofluorobenzene	88	80 - 120	%		

Sample Id: 655709-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 655709-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 941446

Date Prep: 05.19.14 14.00

Prep seq: 655709

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	05.20.14 05:35	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.20.14 05:35	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.20.14 05:35	U	1
Total TPH	PHC635	ND		0.975	mg/L	05.20.14 05:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	107	70 - 135	%		

Certificate of Analytical Results

485470

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 655766-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 655766-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: MKO	% Moist:	Tech: MKO
Seq Number: 941624	Date Prep: 05.20.14 10.20	
Subcontractor: SUB: E871002	Prep seq: 655766	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	06.03.14 00:22	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.21.14 20:54	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.21.14 20:54	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.21.14 20:54	U	1

Sample Id: 941363-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 941363-1-BLK	Date Collected:	Date Received:
Analytical Method: TDS by SM2540C		Prep Method:
Analyst: RKO	% Moist:	Tech: RKO
Seq Number: 941363	Date Prep:	
	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.20.14 13:32	U	1

Sample Id: 941495-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 941495-1-BLK	Date Collected:	Date Received:
Analytical Method: Chromium, Hexavalent by SW 7196A		Prep Method:
Analyst: WRU	% Moist:	Tech: WRU
Seq Number: 941495	Date Prep:	
	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.14.14 19:14	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485470,

Project ID: 073018

Lab Batch #: 941291

Sample: 655687-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/19/14 11:06

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0251	0.0300	84	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 941291

Sample: 655687-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/19/14 11:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 941291

Sample: 655687-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/19/14 11:39

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0330	0.0300	110	80-120	

Lab Batch #: 941291

Sample: 485470-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/19/14 11:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0265	0.0300	88	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 941291

Sample: 485470-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/19/14 12:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0256	0.0300	85	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 485470,

Project ID: 073018

Lab Batch #: 941446

Sample: 655709-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/20/14 05:35

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.0	9.87	101	70-135	
o-Terphenyl	5.30	4.94	107	70-135	

Lab Batch #: 941446

Sample: 655709-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/20/14 05:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.5	9.87	127	70-135	
o-Terphenyl	6.25	4.93	127	70-135	

Lab Batch #: 941446

Sample: 485470-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/20/14 07:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.1	9.87	112	70-135	
o-Terphenyl	4.62	4.94	94	70-135	

Lab Batch #: 941446

Sample: 655709-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/20/14 11:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.2	9.87	124	70-135	
o-Terphenyl	5.97	4.94	121	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 485470

Project ID:

073018

Lab Batch #: 941495

Sample: 941495-1-BKS

Matrix: Water

Date Analyzed: 05/14/2014

Date Prepared: 05/14/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0390	98	80-120	

Lab Batch #: 941363

Sample: 941363-1-BKS

Matrix: Water

Date Analyzed: 05/20/2014

Date Prepared: 05/20/2014

Analyst: RKO

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Total dissolved solids	<5.00	1000	944	94	80-120	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 485470

Project ID: 073018

Analyst: ARM

Date Prepared: 05/19/2014

Date Analyzed: 05/19/2014

Lab Batch ID: 941291

Sample: 655687-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0983	98	0.100	0.102	102	4	70-125	25	
Toluene	<0.00100	0.100	0.0985	99	0.100	0.102	102	3	70-125	25	
Ethylbenzene	<0.000800	0.100	0.105	105	0.100	0.110	110	5	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.217	109	0.200	0.227	114	5	70-131	25	
o-Xylene	<0.000700	0.100	0.108	108	0.100	0.113	113	5	71-133	25	

Analyst: MKO

Date Prepared: 05/20/2014

Date Analyzed: 05/21/2014

Lab Batch ID: 941624

Sample: 655766-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.982	98	1.00	1.01	101	3	80-120	20	
Chromium	<0.000811	1.00	1.02	102	1.00	1.05	105	3	80-120	20	
Iron	<0.0283	5.00	5.17	103	5.00	5.33	107	3	80-120	20	
Manganese	<0.00316	1.00	1.03	103	1.00	1.06	106	3	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 485470

Project ID: 073018

Analyst: RKO

Date Prepared: 05/15/2014

Date Analyzed: 05/15/2014

Lab Batch ID: 941107

Sample: 655485-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	25.5	102	25.0	23.8	95	7	80-120	20	

Analyst: ARM

Date Prepared: 05/19/2014

Date Analyzed: 05/20/2014

Lab Batch ID: 941446

Sample: 655709-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	116	118	98.7	106	107	9	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	114	116	98.7	107	108	6	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Work Order #: 485470

Lab Batch #: 941107

Date Analyzed: 05/15/2014

QC- Sample ID: 485396-001 S

Reporting Units: mg/L

Date Prepared: 05/15/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	208	125	298	72	80-120	X

Lab Batch #: 941107

Date Analyzed: 05/15/2014

QC- Sample ID: 485470-002 S

Reporting Units: mg/L

Date Prepared: 05/15/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	602	250	737	54	80-120	X

Lab Batch #: 941446

Date Analyzed: 05/20/2014

QC- Sample ID: 485470-001 S

Reporting Units: mg/L

Date Prepared: 05/19/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	91.1	92	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.7	95.0	96	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485470

Project ID: 073018

Lab Batch ID: 941291

QC- Sample ID: 485470-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/19/2014

Date Prepared: 05/19/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.0953	95	0.100	0.0904	90	5	70-125	25	
Toluene	<0.00100	0.100	0.0954	95	0.100	0.0903	90	5	70-125	25	
Ethylbenzene	<0.000800	0.100	0.102	102	0.100	0.0959	96	6	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.209	105	0.200	0.197	99	6	70-131	25	
o-Xylene	<0.000700	0.100	0.105	105	0.100	0.0984	98	6	71-133	25	

Lab Batch ID: 941494

QC- Sample ID: 485396-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/14/2014

Date Prepared: 05/14/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	<0.00500	0.200	0.200	100	0.200	0.202	101	1	80-120	20	

Lab Batch ID: 941495

QC- Sample ID: 485470-009 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/14/2014

Date Prepared: 05/14/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	<0.00500	0.200	0.189	95	0.200	0.185	93	2	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 485470

Project ID: 073018

Lab Batch ID: 941624

QC- Sample ID: 485470-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/21/2014

Date Prepared: 05/20/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.0249	1.00	1.00	98	1.00	0.981	96	2	75-125	20	
Chromium	0.000825	1.00	0.996	100	1.00	0.970	97	3	75-125	20	
Iron	<0.0283	5.00	4.92	98	5.00	4.85	97	1	75-125	20	
Manganese	<0.00316	1.00	1.02	102	1.00	1.00	100	2	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 485470

Lab Batch #: 941363

Project ID: 073018

Date Analyzed: 05/20/2014 13:32

Date Prepared: 05/20/2014

Analyst: RKO

QC- Sample ID: 485461-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	247000	236000	5	10	

Lab Batch #: 941363

Date Analyzed: 05/20/2014 13:32

Date Prepared: 05/20/2014

Analyst: RKO

QC- Sample ID: 485470-010 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3070	3230	5	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

Company-City CRA - Midland Phone 432-686-0086				Lab Only: 485470																																	
Project Name-Location N. Eunice, NM ☐ Previously done at XENCO Project ID				TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.																																	
Proj. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other				Proj. Manager (PM) Mike Wisniowiecki																																	
E-mail Results to ☒ PM and mw:sniewiecki@craworld.com Fax No: 432-686-0186																																					
Invoice to ☐ Accounting ☐ Inc. Invoice with Final Report ☐ Invoice must have a P.O.																																					
Bill to:																																					
Quote/Pricing: P.O. No: ☐ Call for P.O.																																					
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP																																					
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:																																					
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)																																					
Sampler Name Chris Evans Signature ChrEun																																					
Sample ID	Sampling Date	Time	Depth ft' in" m	Matrix	Composite	Grab	# Containers	Container Size	Container Type	Preservatives	VOA: Full-List BTEX-MTBE EtOH Oxyg VOA's	VOA: PP TCL DW Appdx-1 Appdx-2 CALL Other:	PAHs SIM 8310 8270	TX-1005 DRO GRO MA EPH MA VPH	SVOCs: Full-List DW BN&AE TCLP PP Appdx-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13PP 23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	Dissolved Metals 6010B	TDS 5M 2540C	Chlorides E300	TPH GRO + DRO 8015 mod	BTEX 8021B	Hexchrom 7196A	TATASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Addn:	Date	Rev. by:	From:				
1 MW-57SA 051414	5-14-14	1025		W		X	6													X	X	X	X	X	X												
2 MW-56SA 051414	5-14-14	1110		W		X	6													X	X	X	X	X	X												
3 MW-74SA 051414	5-14-14	1300		W		X	6													X	X	X	X	X	X												
4 MW-75SA 051414	5-14-14	1350		W		X	6													X	X	X	X	X	X												
5 MW-76SA 051414	5-14-14	1430		W		X	6													X	X	X	X	X	X												
6 MW-65SA 051414	5-14-14	1230		W		X	6													X	X	X	X	X	X												
7 MW-83SA 051414	5-14-14	1345		W		X	6													X	X	X	X	X	X												
8 MW-86SA 051414	5-14-14	1615		W		X	6													X	X	X	X	X	X												
9 MW-85SA 051414	5-14-14	1445		W		X	6													X	X	X	X	X	X												
10 MW-84SA 051414	5-14-14	1600		W		X	6													X	X	X	X	X	X												
Relinquished by (Initials and Sign)		Date & Time		Relinquished to (Initials and Sign)		Date & Time		Total Containers per COC:		Cooler Temp: °C																											
1) CE ChrEun		5-14-14 / 1700		2) Jolion Martinez		5-14-14 17:00						Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.																									
3)				4)																																	
5)				6)																																	

Preservatives: Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)
Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

XENCO
Laboratories

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☐ 12600 West I-20 East, Odessa, TX 79765 **432-563-1800**

Serial #: 329771 Page 2 of 2

[illegible]

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/14/2014 05:00:00 PM

Work Order #: 485470

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/15/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/15/2014

Analytical Report 486180

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

03-JUN-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



03-JUN-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **486180**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 486180. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 486180 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-39A-052714	W	05-27-14 11:20		486180-001
MW-36-052714	W	05-27-14 12:25		486180-002
MW-9A-052714	W	05-27-14 13:20		486180-003
MW-89-052714	W	05-27-14 14:05		486180-004
MW-47-052714	W	05-27-14 15:40		486180-005
DUP-11-052714	W	05-27-14 00:00		486180-006
Trip Blank	W	05-27-14 00:00		486180-007



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 486180

Report Date: 03-JUN-14
Date Received: 05/27/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-39A-052714**

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-001

Date Collected: 05.27.14 11.20

Date Received: 05.27.14 16.57

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 942207

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	927	5.00	5.00	mg/L	05.30.14 15:02		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942103

Date Prep: 05.28.14 19.29

Prep seq: 656113

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	202	20.0	0.560	mg/L	05.28.14 19:29		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0187	0.0200	0.00550	mg/L	06.03.14 01:08	J	1
Chromium	7440-47-3	0.102	0.0100	0.000811	mg/L	06.03.14 01:08		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 01:08	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	06.03.14 01:08	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942035

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0948	0.0100	0.00500	mg/L	05.28.14 09:00		1



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-39A-052714

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-001

Date Collected: 05.27.14 11.20

Date Received: 05.27.14 16.57

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.31.14 19:56	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 19:56	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 19:56	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.31.14 19:56	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	96	70 - 135	%		
o-Terphenyl	76	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 00:20	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 00:20	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 00:20	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 00:20	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 00:20	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.30.14 00:20	U	
Total BTEX		ND		0.000700	mg/L	05.30.14 00:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-36-052714**

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-002

Date Collected: 05.27.14 12.25

Date Received: 05.27.14 16.57

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 942207

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1000	5.00	5.00	mg/L	05.30.14 15:02		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942103

Date Prep: 05.28.14 19.52

Prep seq: 656113

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	199	20.0	0.560	mg/L	05.28.14 19:52		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0226	0.0200	0.00550	mg/L	06.03.14 01:40		1
Chromium	7440-47-3	0.000905	0.0100	0.000811	mg/L	06.03.14 01:40	J	1
Iron	7439-89-6	1.91	0.200	0.0283	mg/L	06.03.14 01:40		1
Manganese	7439-96-5	0.363	0.0200	0.00316	mg/L	06.03.14 01:40		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942035

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.28.14 09:00	U	5



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-36-052714

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-002

Date Collected: 05.27.14 12.25

Date Received: 05.27.14 16.57

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	4.81	1.48	0.976	mg/L	05.31.14 20:21		1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	0.981	1.48	0.976	mg/L	05.31.14 20:21	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 20:21	U	1
Total TPH	PHCG635	5.79		0.976	mg/L	05.31.14 20:21		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	80	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0832	0.00100	0.000800	mg/L	05.30.14 03:05		1
Toluene	108-88-3	0.00128	0.00200	0.00100	mg/L	05.30.14 03:05	J	1
Ethylbenzene	100-41-4	0.0606	0.00100	0.000800	mg/L	05.30.14 03:05		1
m,p-Xylenes	179601-23-1	0.615	0.00200	0.00140	mg/L	05.30.14 03:05		1
o-Xylene	95-47-6	0.0212	0.00100	0.000700	mg/L	05.30.14 03:05		1
Total Xylenes	1330-20-7	0.636		0.000700	mg/L	05.30.14 03:05		
Total BTEX		0.781		0.000700	mg/L	05.30.14 03:05		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	84	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-9A-052714**

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-003

Date Collected: 05.27.14 13.20

Date Received: 05.27.14 16.57

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 942207

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1890	5.00	5.00	mg/L	05.30.14 15:02		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942103

Date Prep: 05.28.14 21.00

Prep seq: 656113

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	497	20.0	0.560	mg/L	05.28.14 21:00		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0102	0.0200	0.00550	mg/L	06.03.14 01:47	J	1
Chromium	7440-47-3	0.204	0.0100	0.000811	mg/L	06.03.14 01:47		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 01:47	U	1
Manganese	7439-96-5	0.312	0.0200	0.00316	mg/L	06.03.14 01:47		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942035

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.176	0.0100	0.00500	mg/L	05.28.14 09:00		1



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-9A-052714**

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-003

Date Collected: 05.27.14 13.20

Date Received: 05.27.14 16.57

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.31.14 20:46	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 20:46	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 20:46	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.31.14 20:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	79	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 01:43	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 01:43	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 01:43	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 01:43	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 01:43	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.30.14 01:43	U	
Total BTEX		ND		0.000700	mg/L	05.30.14 01:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-89-052714**

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-004

Date Collected: 05.27.14 14.05

Date Received: 05.27.14 16.57

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 942207

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1150	5.00	5.00	mg/L	05.30.14 15:02		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942103

Date Prep: 05.28.14 21.22

Prep seq: 656113

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	170	20.0	0.560	mg/L	05.28.14 21:22		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	06.03.14 02:06	U	1
Chromium	7440-47-3	0.0261	0.0100	0.000811	mg/L	06.03.14 02:06		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 02:06	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	06.03.14 02:06	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942035

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0220	0.0100	0.00500	mg/L	05.28.14 09:00		1



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-89-052714**

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-004

Date Collected: 05.27.14 14.05

Date Received: 05.27.14 16.57

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.31.14 21:11	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 21:11	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 21:11	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.31.14 21:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	70 - 135	%		
o-Terphenyl	79	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 01:59	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 01:59	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 01:59	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 01:59	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 01:59	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.30.14 01:59	U	
Total BTEX		ND		0.000700	mg/L	05.30.14 01:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-47-052714**

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-005

Date Collected: 05.27.14 15.40

Date Received: 05.27.14 16.57

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 942207

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1730	5.00	5.00	mg/L	05.30.14 15:02		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942103

Date Prep: 05.28.14 21.45

Prep seq: 656113

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	285	20.0	0.560	mg/L	05.28.14 21:45		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00563	0.0200	0.00550	mg/L	06.03.14 02:13	J	1
Chromium	7440-47-3	0.0518	0.0100	0.000811	mg/L	06.03.14 02:13		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 02:13	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	06.03.14 02:13	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942035

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0441	0.0100	0.00500	mg/L	05.28.14 09:00		1



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-47-052714**

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-005

Date Collected: 05.27.14 15.40

Date Received: 05.27.14 16.57

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	05.31.14 21:36	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 21:36	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 21:36	U	1
Total TPH	PHCG635	ND		0.976	mg/L	05.31.14 21:36	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	80	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 02:16	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 02:16	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 02:16	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 02:16	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 02:16	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.30.14 02:16	U	
Total BTEX		ND		0.000700	mg/L	05.30.14 02:16	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		

Certificate of Analytical Results

486180

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-11-052714**

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-006

Date Collected: 05.27.14 00.00

Date Received: 05.27.14 16.57

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 942207

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1150	5.00	5.00	mg/L	05.30.14 15:02		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942103

Date Prep: 05.28.14 22.08

Prep seq: 656113

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	169	20.0	0.560	mg/L	05.28.14 22:08		20

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	06.03.14 02:19	U	1
Chromium	7440-47-3	0.0261	0.0100	0.000811	mg/L	06.03.14 02:19		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 02:19	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	06.03.14 02:19	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942035

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0216	0.0100	0.00500	mg/L	05.28.14 09:00		1



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: DUP-11-052714

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-006

Date Collected: 05.27.14 00.00

Date Received: 05.27.14 16.57

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	05.31.14 22:01	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.31.14 22:01	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.31.14 22:01	U	1
Total TPH	PHCG635	ND		0.975	mg/L	05.31.14 22:01	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	86	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 02:32	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 02:32	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 02:32	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 02:32	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 02:32	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.30.14 02:32	U	
Total BTEX		ND		0.000700	mg/L	05.30.14 02:32	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **Trip Blank**

Matrix: Water

Sample Depth:

Lab Sample Id: 486180-007

Date Collected: 05.27.14 00.00

Date Received: 05.27.14 16.57

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 22:59	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 22:59	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 22:59	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 22:59	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 22:59	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 22:59	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 22:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		

Sample Id: **656113-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 656113-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942103

Date Prep: 05.28.14 13.19

Prep seq: 656113

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.28.14 13:19	U	1



Certificate of Analytical Results

486180



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 656230-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656230-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942152

Date Prep: 05.29.14 17.00

Prep seq: 656230

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 20:31	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 20:31	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 20:31	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 20:31	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 20:31	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		

Sample Id: 656307-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656307-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	82	70 - 135	%		

Certificate of Analytical Results

486180

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 656346-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 656346-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: MKO	% Moist:	Tech: MKO
Seq Number: 942392	Date Prep: 06.02.14 13.10	
Subcontractor: SUB: E871002	Prep seq: 656346	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	06.03.14 00:48	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	06.03.14 00:48	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 00:48	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	06.03.14 00:48	U	1

Sample Id: 942035-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 942035-1-BLK	Date Collected:	Date Received:
Analytical Method: Chromium, Hexavalent by SW 7196A		Prep Method:
Analyst: JUM	% Moist:	Tech: JUM
Seq Number: 942035	Date Prep:	
	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.28.14 09:00	U	1

Sample Id: 942207-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 942207-1-BLK	Date Collected:	Date Received:
Analytical Method: TDS by SM2540C		Prep Method:
Analyst: ANS	% Moist:	Tech: ANS
Seq Number: 942207	Date Prep:	
Subcontractor: SUB: E871002	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.30.14 15:02	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 486180,

Project ID: 073018

Lab Batch #: 942152

Sample: 656230-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/29/14 20:31	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0260	0.0300	87	80-120
4-Bromofluorobenzene		0.0278	0.0300	93	80-120

Lab Batch #: 942152

Sample: 656230-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/29/14 20:47	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0269	0.0300	90	80-120
4-Bromofluorobenzene		0.0324	0.0300	108	80-120

Lab Batch #: 942152

Sample: 656230-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/29/14 21:03	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0269	0.0300	90	80-120
4-Bromofluorobenzene		0.0326	0.0300	109	80-120

Lab Batch #: 942152

Sample: 486062-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/29/14 21:20	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0275	0.0300	92	80-120
4-Bromofluorobenzene		0.0331	0.0300	110	80-120

Lab Batch #: 942152

Sample: 486062-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/29/14 21:36	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0275	0.0300	92	80-120
4-Bromofluorobenzene		0.0319	0.0300	106	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 486180,

Project ID: 073018

Lab Batch #: 942305

Sample: 656307-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.86	9.88	100	70-135	
o-Terphenyl	4.05	4.94	82	70-135	

Lab Batch #: 942305

Sample: 656307-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.73	9.88	78	70-135	
o-Terphenyl	4.06	4.94	82	70-135	

Lab Batch #: 942305

Sample: 656307-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.96	9.88	81	70-135	
o-Terphenyl	3.94	4.94	80	70-135	

Lab Batch #: 942305

Sample: 486227-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 23:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.8	9.88	109	70-135	
o-Terphenyl	5.51	4.94	112	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 486180

Project ID:

073018

Lab Batch #: 942035

Sample: 942035-1-BKS

Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0400	100	80-120	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 486180

Project ID: 073018

Analyst: ARM

Date Prepared: 05/29/2014

Date Analyzed: 05/29/2014

Lab Batch ID: 942152

Sample: 656230-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0997	100	0.100	0.100	100	0	70-125	25	
Toluene	<0.00100	0.100	0.0992	99	0.100	0.100	100	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.107	107	0.100	0.108	108	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.220	110	0.200	0.222	111	1	70-131	25	
o-Xylene	<0.000700	0.100	0.110	110	0.100	0.111	111	1	71-133	25	

Analyst: MKO

Date Prepared: 06/02/2014

Date Analyzed: 06/03/2014

Lab Batch ID: 942392

Sample: 656346-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.03	103	1.00	1.05	105	2	80-120	20	
Chromium	<0.000811	1.00	1.06	106	1.00	1.09	109	3	80-120	20	
Iron	<0.0283	5.00	5.21	104	5.00	5.32	106	2	80-120	20	
Manganese	<0.00316	1.00	1.03	103	1.00	1.06	106	3	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 486180

Project ID: 073018

Analyst: RKO

Date Prepared: 05/28/2014

Date Analyzed: 05/28/2014

Lab Batch ID: 942103

Sample: 656113-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	24.6	98	25.0	25.0	100	2	80-120	20	

Analyst: ANS

Date Prepared: 05/30/2014

Date Analyzed: 05/30/2014

Lab Batch ID: 942207

Sample: 942207-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	1030	103	1000	1030	103	0	80-120	10	

Analyst: ARM

Date Prepared: 05/30/2014

Date Analyzed: 05/31/2014

Lab Batch ID: 942305

Sample: 656307-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	85.8	87	98.8	89.7	91	4	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	92.8	94	98.8	91.6	93	1	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 486180

Lab Batch #: 942103

Date Analyzed: 05/28/2014

QC- Sample ID: 486062-001 S

Reporting Units: mg/L

Date Prepared: 05/28/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	152	500	642	98	80-120	

Lab Batch #: 942103

Date Analyzed: 05/28/2014

QC- Sample ID: 486214-001 S

Reporting Units: mg/L

Date Prepared: 05/28/2014

Batch #: 1

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	194	250	462	107	80-120	

Lab Batch #: 942305

Date Analyzed: 05/31/2014

QC- Sample ID: 486227-001 S

Reporting Units: mg/L

Date Prepared: 05/30/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	88.1	89	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	86.6	88	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 486180

Project ID: 073018

Lab Batch ID: 942152

QC- Sample ID: 486062-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/29/2014

Date Prepared: 05/29/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.104	104	0.100	0.0960	96	8	70-125	25	
Toluene	<0.00100	0.100	0.103	103	0.100	0.0948	95	8	70-125	25	
Ethylbenzene	<0.000800	0.100	0.111	111	0.100	0.102	102	8	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.229	115	0.200	0.210	105	9	70-131	25	
o-Xylene	<0.000700	0.100	0.115	115	0.100	0.106	106	8	71-133	25	

Lab Batch ID: 942035

QC- Sample ID: 486180-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: JUM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	0.0948	0.00800	0.102	90	0.00800	0.103	103	1	80-120	20	

Lab Batch ID: 942392

QC- Sample ID: 486180-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 06/03/2014

Date Prepared: 06/02/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.0187	1.00	1.08	106	1.00	1.06	104	2	75-125	20	
Chromium	0.102	1.00	1.16	106	1.00	1.14	104	2	75-125	20	
Iron	<0.0283	5.00	4.77	95	5.00	4.73	95	1	75-125	20	
Manganese	<0.00316	1.00	1.06	106	1.00	1.03	103	3	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 486180

Lab Batch #: 942207

Project ID: 073018

Date Analyzed: 05/30/2014 15:02

Date Prepared: 05/30/2014

Analyst: ANS

QC- Sample ID: 485538-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	5640	5600	1	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



Setting the Standard since 1990

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Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 1 Of 1

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Odessa, Texas (432-563-1800)

Lakeland, Florida (863-646-8526)

Norcross, Georgia (770-449-8800)

Tampa, Florida (813-620-2000)

Xenco Quote # Xenco Job # 486180

Client / Reporting Information		Project Information		Analytical Information										Matrix Codes			
Company Name / Branch:		Project Name/Number:															
Company Address:		Project Location:															
Email:		Phone No:		Invoice To:													
Project Contact:		PO Number:															
Samplers's Name:																	
No.	Field ID / Point of Collection	Collection	Number of preserved bottles										Field Comments				
		Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE			
1	MW39A-052714		5/27/14	1120	W	6									X		
2	MW-36-052714			1225											X		
3	MW-9A-052714			1320											X		
4	MW-89-052714			1405											X		
5	MW-47-052714			1540											X		
6	Dup-11-052714			-													
7	Trip Blank			-		2											
8																	
9																	
10																	

Turnaround Time (Business days) ☐ Same Day TAT ☐ 5 Day TAT ☐ Next Day EMERGENCY ☐ 7 Day TAT ☐ 2 Day EMERGENCY ☒ Contract TAT ☐ 3 Day EMERGENCY

Data Deliverable Information ☐ Level II Std QC ☐ Level III Std QC+ Forms ☐ Level 3 (CLP Forms) ☐ Level IV (Full Data Pkg /raw data) ☐ TRRP Level IV ☐ UST / RG -411 ☐ TRRP Checklist

TAT Starts Day received by Lab, if received by 3:00 pm

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY					
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [Signature] 5-27-14	5-27-14	1 Julian Martinez	2	5-27-14	2
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3	16:57	3	4	16:57	4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice
5		5			

Thermo. Corr. Factor

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/27/2014 04:57:00 PM

Work Order #: 486180

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	No
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by:

Kelsey Brooks

Date: 05/28/2014

Checklist reviewed by:

Kelsey Brooks

Date: 05/28/2014

Analytical Report 486279

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

04-JUN-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



04-JUN-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **486279**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 486279. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 486279 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-12M-052814	W	05-28-14 09:20		486279-001
MW-12-052814	W	05-28-14 10:20		486279-002
MW-12A-052814	W	05-28-14 11:30		486279-003
IW-002-052814	W	05-28-14 15:50		486279-004
RW-003-0528/14	W	05-28-14 14:40		486279-005
Trip Blank	W	05-28-14 00:00		486279-006



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 486279

Report Date: 04-JUN-14
Date Received: 05/28/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results

486279

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-12M-052814	Matrix: Water	Sample Depth:
Lab Sample Id: 486279-001	Date Collected: 05.28.14 09.20	Date Received: 05.28.14 16.30
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: RKO	% Moist:	Tech: RKO
Seq Number: 942347	Date Prep: 05.30.14 14.33	
	Prep seq: 656200	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	779	100	2.80	mg/L	05.30.14 14:33		100

Analytical Method: TDS by SM2540C	Prep Method:
Analyst: WRU	Tech: WRU
Seq Number: 942283	
	% Moist:
	Date Prep:
	Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	5220	5.00	5.00	mg/L	05.29.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B	Prep Method: 3010A
Analyst: MKO	Tech: MKO
Seq Number: 942392	
	% Moist:
	Date Prep: 06.02.14 13.10
Subcontractor: SUB: E871002	Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0880	0.0200	0.00550	mg/L	06.03.14 02:26		1
Chromium	7440-47-3	0.0429	0.0100	0.000811	mg/L	06.03.14 02:26		1
Iron	7439-89-6	9.14	0.200	0.0283	mg/L	06.03.14 02:26		1
Manganese	7439-96-5	0.119	0.0200	0.00316	mg/L	06.03.14 02:26		1

Analytical Method: Chromium, Hexavalent by SW 7196A	Prep Method:
Analyst: JUM	Tech: JUM
Seq Number: 942120	
	% Moist:
	Date Prep:
	Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.100	0.0500	mg/L	05.28.14 19:30	U	10



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-12M-052814

Matrix: Water

Sample Depth:

Lab Sample Id: 486279-001

Date Collected: 05.28.14 09.20

Date Received: 05.28.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	06.01.14 00:53	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	06.01.14 00:53	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	06.01.14 00:53	U	1
Total TPH	PHCG635	ND		0.976	mg/L	06.01.14 00:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	128	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942522

Date Prep: 06.02.14 16.00

Prep seq: 656405

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	06.03.14 19:10	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	06.03.14 19:10	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	06.03.14 19:10	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	06.03.14 19:10	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	06.03.14 19:10	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	06.03.14 19:10	U	
Total BTEX		ND		0.000700	mg/L	06.03.14 19:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	84	80 - 120	%		



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-12-052814**

Matrix: Water

Sample Depth:

Lab Sample Id: 486279-002

Date Collected: 05.28.14 10.20

Date Received: 05.28.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942347

Date Prep: 05.30.14 15.18

Prep seq: 656200

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	446	50.0	1.40	mg/L	05.30.14 15:18		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942283

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1980	5.00	5.00	mg/L	05.29.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	06.03.14 02:32	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	06.03.14 02:32	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 02:32	U	1
Manganese	7439-96-5	1.73	0.0200	0.00316	mg/L	06.03.14 02:32		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942120

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.28.14 19:30	U	1



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-12-052814**

Matrix: Water

Sample Depth:

Lab Sample Id: 486279-002

Date Collected: 05.28.14 10.20

Date Received: 05.28.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	06.01.14 01:17	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	06.01.14 01:17	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	06.01.14 01:17	U	1
Total TPH	PHCG635	ND		0.975	mg/L	06.01.14 01:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	130	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942522

Date Prep: 06.02.14 16.00

Prep seq: 656405

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	06.03.14 18:54	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	06.03.14 18:54	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	06.03.14 18:54	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	06.03.14 18:54	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	06.03.14 18:54	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	06.03.14 18:54	U	
Total BTEX		ND		0.000700	mg/L	06.03.14 18:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		

Certificate of Analytical Results

486279

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-12A-052814**

Matrix: Water

Sample Depth:

Lab Sample Id: 486279-003

Date Collected: 05.28.14 11.30

Date Received: 05.28.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942347

Date Prep: 05.30.14 15.41

Prep seq: 656200

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	90.8	10.0	0.280	mg/L	05.30.14 15:41		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942283

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	562	5.00	5.00	mg/L	05.29.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0193	0.0200	0.00550	mg/L	06.03.14 02:39	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	06.03.14 02:39	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 02:39	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	06.03.14 02:39	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942120

Date Prep:

Prep seq:

Parameter	CAS Number	Result	ML	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.28.14 19:30	U	1



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-12A-052814

Matrix: Water

Sample Depth:

Lab Sample Id: 486279-003

Date Collected: 05.28.14 11.30

Date Received: 05.28.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	06.01.14 01:41	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	06.01.14 01:41	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	06.01.14 01:41	U	1
Total TPH	PHCG635	ND		0.976	mg/L	06.01.14 01:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	77	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942522

Date Prep: 06.02.14 16.00

Prep seq: 656405

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	06.03.14 19:27	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	06.03.14 19:27	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	06.03.14 19:27	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	06.03.14 19:27	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	06.03.14 19:27	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	06.03.14 19:27	U	
Total BTEX		ND		0.000700	mg/L	06.03.14 19:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **IW-002-052814**

Matrix: Water

Sample Depth:

Lab Sample Id: 486279-004

Date Collected: 05.28.14 15.50

Date Received: 05.28.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942347

Date Prep: 05.30.14 16.03

Prep seq: 656200

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	582	100	2.80	mg/L	05.30.14 16:03		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942283

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3850	5.00	5.00	mg/L	05.29.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0105	0.0200	0.00550	mg/L	06.03.14 02:45	J	1
Chromium	7440-47-3	0.00643	0.0100	0.000811	mg/L	06.03.14 02:45	J	1
Iron	7439-89-6	3.29	0.200	0.0283	mg/L	06.03.14 02:45		1
Manganese	7439-96-5	0.737	0.0200	0.00316	mg/L	06.03.14 02:45		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942120

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.28.14 19:30	U	5



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW-002-052814

Matrix: Water

Sample Depth:

Lab Sample Id: 486279-004

Date Collected: 05.28.14 15:50

Date Received: 05.28.14 16:30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14:00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	06.02.14 14:04	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	06.02.14 14:04	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	06.02.14 14:04	U	1
Total TPH	PHCG635	ND		0.975	mg/L	06.02.14 14:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	120	70 - 135	%		
o-Terphenyl	128	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942522

Date Prep: 06.02.14 16:00

Prep seq: 656405

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	06.03.14 19:43	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	06.03.14 19:43	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	06.03.14 19:43	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	06.03.14 19:43	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	06.03.14 19:43	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	06.03.14 19:43	U	
Total BTEX		ND		0.000700	mg/L	06.03.14 19:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	97	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		

Certificate of Analytical Results

486279

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **RW-003-0528/14**

Matrix: Water

Sample Depth:

Lab Sample Id: 486279-005

Date Collected: 05.28.14 14.40

Date Received: 05.28.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942347

Date Prep: 05.30.14 16.26

Prep seq: 656200

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	474	50.0	1.40	mg/L	05.30.14 16:26		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942283

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1970	5.00	5.00	mg/L	05.29.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00909	0.0200	0.00550	mg/L	06.03.14 02:52	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	06.03.14 02:52	U	1
Iron	7439-89-6	0.154	0.200	0.0283	mg/L	06.03.14 02:52	J	1
Manganese	7439-96-5	0.622	0.0200	0.00316	mg/L	06.03.14 02:52		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942120

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.28.14 19:30	U	5



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **RW-003-0528/14**

Matrix: Water

Sample Depth:

Lab Sample Id: 486279-005

Date Collected: 05.28.14 14.40

Date Received: 05.28.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.976	mg/L	06.01.14 02:29	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	06.01.14 02:29	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	06.01.14 02:29	U	1
Total TPH	PHCG635	ND		0.976	mg/L	06.01.14 02:29	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	77	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942157

Date Prep: 05.29.14 17.00

Prep seq: 656235

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 08:20	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 08:20	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 08:20	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 08:20	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 08:20	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.30.14 08:20	U	
Total BTEX		ND		0.000700	mg/L	05.30.14 08:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **Trip Blank**

Matrix: Water

Sample Depth:

Lab Sample Id: 486279-006

Date Collected: 05.28.14 00.00

Date Received: 05.28.14 16.30

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942157

Date Prep: 05.29.14 17.00

Prep seq: 656235

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 07:10	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 07:10	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 07:10	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 07:10	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 07:10	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.30.14 07:10	U	
Total BTEX		ND		0.000700	mg/L	05.30.14 07:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		

Sample Id: **656200-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 656200-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942347

Date Prep: 05.30.14 13.24

Prep seq: 656200

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.30.14 13:24	U	1



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 656235-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656235-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942157

Date Prep: 05.29.14 17.00

Prep seq: 656235

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 05:33	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 05:33	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 05:33	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 05:33	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 05:33	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		

Sample Id: 656307-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656307-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	82	70 - 135	%		



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 656346-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656346-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	06.03.14 00:48	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	06.03.14 00:48	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 00:48	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	06.03.14 00:48	U	1

Sample Id: 656405-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656405-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942522

Date Prep: 06.02.14 16.00

Prep seq: 656405

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	06.03.14 09:42	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	06.03.14 09:42	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	06.03.14 09:42	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	06.03.14 09:42	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	06.03.14 09:42	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		

Sample Id: 942120-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 942120-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942120

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.28.14 19:30	U	1



Certificate of Analytical Results

486279



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 942283-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 942283-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942283

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.29.14 12:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 486279,

Project ID: 073018

Lab Batch #: 942157

Sample: 656235-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/30/14 05:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0256	0.0300	85	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 942157

Sample: 656235-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/30/14 05:50

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0328	0.0300	109	80-120	

Lab Batch #: 942157

Sample: 656235-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/30/14 06:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

Lab Batch #: 942157

Sample: 486227-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/30/14 06:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0276	0.0300	92	80-120	
4-Bromofluorobenzene	0.0337	0.0300	112	80-120	

Lab Batch #: 942157

Sample: 486227-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/30/14 06:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0336	0.0300	112	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 486279,

Project ID: 073018

Lab Batch #: 942522

Sample: 656405-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 06/03/14 09:42		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0255	0.0300	85	80-120
4-Bromofluorobenzene		0.0291	0.0300	97	80-120

Lab Batch #: 942522

Sample: 656405-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 06/03/14 09:59		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0268	0.0300	89	80-120
4-Bromofluorobenzene		0.0340	0.0300	113	80-120

Lab Batch #: 942522

Sample: 656405-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 06/03/14 10:15		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0272	0.0300	91	80-120
4-Bromofluorobenzene		0.0333	0.0300	111	80-120

Lab Batch #: 942522

Sample: 486493-005 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 06/03/14 10:32		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0267	0.0300	89	80-120
4-Bromofluorobenzene		0.0338	0.0300	113	80-120

Lab Batch #: 942522

Sample: 486493-005 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 06/03/14 10:49		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0268	0.0300	89	80-120
4-Bromofluorobenzene		0.0342	0.0300	114	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 486279,

Project ID: 073018

Lab Batch #: 942305

Sample: 656307-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.86	9.88	100	70-135	
o-Terphenyl	4.05	4.94	82	70-135	

Lab Batch #: 942305

Sample: 656307-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.73	9.88	78	70-135	
o-Terphenyl	4.06	4.94	82	70-135	

Lab Batch #: 942305

Sample: 656307-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.96	9.88	81	70-135	
o-Terphenyl	3.94	4.94	80	70-135	

Lab Batch #: 942305

Sample: 486227-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 23:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.8	9.88	109	70-135	
o-Terphenyl	5.51	4.94	112	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 486279

Project ID:

073018

Lab Batch #: 942120

Sample: 942120-1-BKS

Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0393	98	80-120	

Lab Batch #: 942283

Sample: 942283-1-BKS

Matrix: Water

Date Analyzed: 05/29/2014

Date Prepared: 05/29/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Total dissolved solids	<5.00	1000	947	95	80-120	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 486279

Project ID: 073018

Analyst: ARM

Date Prepared: 05/29/2014

Date Analyzed: 05/30/2014

Lab Batch ID: 942157

Sample: 656235-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0970	97	0.100	0.0957	96	1	70-125	25	
Toluene	<0.00100	0.100	0.0959	96	0.100	0.0949	95	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.102	102	0.100	0.101	101	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.209	105	0.200	0.207	104	1	70-131	25	
o-Xylene	<0.000700	0.100	0.107	107	0.100	0.105	105	2	71-133	25	

Analyst: ARM

Date Prepared: 06/02/2014

Date Analyzed: 06/03/2014

Lab Batch ID: 942522

Sample: 656405-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.102	102	0.100	0.0937	94	8	70-125	25	
Toluene	<0.00100	0.100	0.103	103	0.100	0.0926	93	11	70-125	25	
Ethylbenzene	<0.000800	0.100	0.112	112	0.100	0.0984	98	13	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.230	115	0.200	0.202	101	13	70-131	25	
o-Xylene	<0.000700	0.100	0.115	115	0.100	0.103	103	11	71-133	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 486279

Project ID: 073018

Analyst: MKO

Date Prepared: 06/02/2014

Date Analyzed: 06/03/2014

Lab Batch ID: 942392

Sample: 656346-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.03	103	1.00	1.05	105	2	80-120	20	
Chromium	<0.000811	1.00	1.06	106	1.00	1.09	109	3	80-120	20	
Iron	<0.0283	5.00	5.21	104	5.00	5.32	106	2	80-120	20	
Manganese	<0.00316	1.00	1.03	103	1.00	1.06	106	3	80-120	20	

Analyst: RKO

Date Prepared: 05/30/2014

Date Analyzed: 05/30/2014

Lab Batch ID: 942347

Sample: 656200-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	23.9	96	25.0	22.5	90	6	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 486279

Project ID: 073018

Analyst: ARM

Date Prepared: 05/30/2014

Date Analyzed: 05/31/2014

Lab Batch ID: 942305

Sample: 656307-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	85.8	87	98.8	89.7	91	4	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	92.8	94	98.8	91.6	93	1	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 486279

Lab Batch #: 942347

Date Analyzed: 05/30/2014

QC- Sample ID: 486279-001 S

Reporting Units: mg/L

Date Prepared: 05/30/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	779	2500	3080	92	80-120	

Lab Batch #: 942305

Date Analyzed: 05/31/2014

QC- Sample ID: 486227-001 S

Reporting Units: mg/L

Date Prepared: 05/30/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	88.1	89	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	86.6	88	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 486279

Project ID: 073018

Lab Batch ID: 942157

QC- Sample ID: 486227-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/30/2014

Date Prepared: 05/29/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.101	101	0.100	0.102	102	1	70-125	25	
Toluene	<0.00100	0.100	0.100	100	0.100	0.101	101	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.107	107	0.100	0.108	108	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.219	110	0.200	0.221	111	1	70-131	25	
o-Xylene	<0.000700	0.100	0.111	111	0.100	0.112	112	1	71-133	25	

Lab Batch ID: 942522

QC- Sample ID: 486493-005 S

Batch #: 1 Matrix: Water

Date Analyzed: 06/03/2014

Date Prepared: 06/02/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.0990	99	0.100	0.0993	99	0	70-125	25	
Toluene	<0.00100	0.100	0.0977	98	0.100	0.0981	98	0	70-125	25	
Ethylbenzene	<0.000800	0.100	0.104	104	0.100	0.104	104	0	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.213	107	0.200	0.214	107	0	70-131	25	
o-Xylene	<0.000700	0.100	0.108	108	0.100	0.109	109	1	71-133	25	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 486279

Project ID: 073018

Lab Batch ID: 942120

QC- Sample ID: 486279-002 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: JUM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	<0.00500	0.200	0.200	100	0.200	0.200	100	0	80-120	20	

Lab Batch ID: 942392

QC- Sample ID: 486180-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 06/03/2014

Date Prepared: 06/02/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.0187	1.00	1.08	106	1.00	1.06	104	2	75-125	20	
Chromium	0.102	1.00	1.16	106	1.00	1.14	104	2	75-125	20	
Iron	<0.0283	5.00	4.77	95	5.00	4.73	95	1	75-125	20	
Manganese	<0.00316	1.00	1.06	106	1.00	1.03	103	3	75-125	20	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference RPD = $200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery [G] = $100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 486279

Lab Batch #: 942283

Project ID: 073018

Date Analyzed: 05/29/2014 12:00

Date Prepared: 05/29/2014

Analyst: WRU

QC- Sample ID: 486279-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	5220	5680	8	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



Setting the Standard since 1990

Stafford, Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

Page 1 Of 1

www.xenco.com

Odessa, Texas (432-563-1800)

Lakeland, Florida (863-646-8526)

Norcross, Georgia (770-449-8800)

Tampa, Florida (813-620-2000)

Xenco Quote # _____ Xenco Job # 486279

Client / Reporting Information		Project Information		Analytical Information												Matrix Codes															
Company Name / Branch: <u>CRA Midland</u>		Project Name/Number: <u>N-Euice 07308</u>		<u>BTX 8021B</u> <u>TPH - GCOT PRO SW 805.50</u> <u>Total Metals 601013</u> <u>Hex chrom SW 7196.4</u> <u>Chlorides E 300.0</u> <u>TDS SW 2540c</u>												A = Air S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge WW = Waste Water W = Wipe O = Oil WW = Waste Water															
Company Address: <u>2135 S. Loop 250 W</u>		Project Location: <u>N-Euice NM</u>																													
Email: <u>mwisniewiecki@crasw.com</u>		Phone No: <u>432-686-0088</u>																													
Project Contact: <u>Mike Wisniewiecki</u>		Invoice To:																													
Samplers Name: <u>Justin Nixon</u>		PO Number:																													
No.	Field ID / Point of Collection	Collection			# of bottles	Number of preserved bottles												Field Comments													
		Sample Depth	Date	Time		Matrix	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE																	
1	<u>mw-12M-052814</u>		<u>5-28-14</u>	<u>920</u>	<u>W</u>	<u>6</u>												X	X	X	X	X	X								
2	<u>mw-12-052814</u>			<u>1020</u>																											
3	<u>mw-12A-052814</u>			<u>1130</u>																											
4	<u>Iw-002-052814</u>			<u>1550</u>																											
5	<u>Rw-003-052814</u>			<u>1440</u>																											
6	<u>Trip Blank</u>																														
7																															
8																															
9																															
10																															
Turnaround Time (Business days)		Data Deliverable Information																		Notes:											
☐ Same Day TAT		☐ 5 Day TAT		☐ Level II Std QC		☐ Level IV (Full Data Pkg /raw data)																									
☒ Next Day EMERGENCY		☐ 7 Day TAT		☐ Level III Std QC+ Forms		☐ TRRP Level IV																									
☐ 2 Day EMERGENCY		☒ Contract TAT		☐ Level 3 (CLP Forms)		☐ UST / RG -411																									
☐ 3 Day EMERGENCY				☐ TRRP Checklist																											
TAT Starts Day received by Lab, if received by 3:00 pm				FED-EX / UPS: Tracking #																											
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY																															
Relinquished by Sampler:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:																					
1 <u>Justin Nixon</u>		<u>5-28-14 16:30</u>		<u>Julian Mart. 222</u>				<u>5-28-14 16:30</u>																							
Relinquished by:		Date Time:		Received By:		Relinquished By:		Date Time:		Received By:																					
3				3		4				4																					
Relinquished by:		Date Time:		Received By:		Custody Seal #		Preserved where applicable		On Ice		Cooler Temp.		Thermo. Corr. Factor																	
5				5																											

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/28/2014 04:30:00 PM

Work Order #: 486279

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	No
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by:


Kelsey Brooks

Date: 05/29/2014

Checklist reviewed by:


Kelsey Brooks

Date: 05/30/2014

Analytical Report 486340

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

04-JUN-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



04-JUN-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **486340**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 486340. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 486340 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 486340



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Woodell WW-052914	W	05-29-14 10:40		486340-001
IW 007-052914	W	05-29-14 09:30		486340-002
Trip Blank	W	05-29-14 00:00		486340-003



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 486340

Report Date: 04-JUN-14
Date Received: 05/29/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

486340



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **Woodell WW-052914**

Matrix: Water

Sample Depth:

Lab Sample Id: 486340-001

Date Collected: 05.29.14 10.40

Date Received: 05.29.14 13.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942347

Date Prep: 05.30.14 16.49

Prep seq: 656200

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	580	50.0	1.40	mg/L	05.30.14 16:49		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942283

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2400	5.00	5.00	mg/L	05.29.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00857	0.0200	0.00550	mg/L	06.03.14 02:59	J	1
Chromium	7440-47-3	0.0446	0.0100	0.000811	mg/L	06.03.14 02:59		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 02:59	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	06.03.14 02:59	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942432

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0341	0.0100	0.00500	mg/L	05.29.14 19:00		1



Certificate of Analytical Results

486340



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **Woodell WW-052914**

Matrix: Water

Sample Depth:

Lab Sample Id: 486340-001

Date Collected: 05.29.14 10.40

Date Received: 05.29.14 13.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	06.01.14 02:53	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	06.01.14 02:53	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	06.01.14 02:53	U	1
Total TPH	PHCG635	ND		0.975	mg/L	06.01.14 02:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	127	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942157

Date Prep: 05.29.14 17.00

Prep seq: 656235

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 08:37	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 08:37	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 08:37	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 08:37	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 08:37	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.30.14 08:37	U	
Total BTEX		ND		0.000700	mg/L	05.30.14 08:37	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	86	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

486340



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW 007-052914

Matrix: Water

Sample Depth:

Lab Sample Id: 486340-002

Date Collected: 05.29.14 09.30

Date Received: 05.29.14 13.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942347

Date Prep: 05.30.14 17.11

Prep seq: 656200

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	835	50.0	1.40	mg/L	05.30.14 17:11		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942283

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4490	5.00	5.00	mg/L	05.29.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942392

Date Prep: 06.02.14 13.10

Subcontractor: SUB: E871002

Prep seq: 656346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0423	0.0200	0.00550	mg/L	06.03.14 03:05		1
Chromium	7440-47-3	0.0253	0.0100	0.000811	mg/L	06.03.14 03:05		1
Iron	7439-89-6	9.32	0.200	0.0283	mg/L	06.03.14 03:05		1
Manganese	7439-96-5	4.25	0.0200	0.00316	mg/L	06.03.14 03:05		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 942432

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.100	0.0500	mg/L	05.29.14 19:00	U	10



Certificate of Analytical Results

486340



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: IW 007-052914

Matrix: Water

Sample Depth:

Lab Sample Id: 486340-002

Date Collected: 05.29.14 09.30

Date Received: 05.29.14 13.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHCG12	ND	1.48	0.975	mg/L	06.02.14 13:10	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	06.02.14 13:10	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	06.02.14 13:10	U	1
Total TPH	PHCG635	ND		0.975	mg/L	06.02.14 13:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	111	70 - 135	%		
o-Terphenyl	122	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942157

Date Prep: 05.29.14 17.00

Prep seq: 656235

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 08:53	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 08:53	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 08:53	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 08:53	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 08:53	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.30.14 08:53	U	
Total BTEX		ND		0.000700	mg/L	05.30.14 08:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	117	80 - 120	%		
4-Bromofluorobenzene	91	80 - 120	%		



Certificate of Analytical Results

486340



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **Trip Blank**

Matrix: Water

Sample Depth:

Lab Sample Id: 486340-003

Date Collected: 05.29.14 00.00

Date Received: 05.29.14 13.30

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942157

Date Prep: 05.29.14 17.00

Prep seq: 656235

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 07:26	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 07:26	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 07:26	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 07:26	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 07:26	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.30.14 07:26	U	
Total BTEX		ND		0.000700	mg/L	05.30.14 07:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		

Sample Id: **656200-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 656200-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: RKO

% Moist:

Tech: RKO

Seq Number: 942347

Date Prep: 05.30.14 13.24

Prep seq: 656200

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.30.14 13:24	U	1



Certificate of Analytical Results

486340



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 656235-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656235-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942157

Date Prep: 05.29.14 17.00

Prep seq: 656235

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.30.14 05:33	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.30.14 05:33	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.30.14 05:33	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.30.14 05:33	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.30.14 05:33	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	85	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		

Sample Id: 656307-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656307-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942305

Date Prep: 05.30.14 14.00

Prep seq: 656307

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 17:03	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	82	70 - 135	%		

Certificate of Analytical Results

486340

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 656346-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 656346-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: MKO	% Moist:	Tech: MKO
Seq Number: 942392	Date Prep: 06.02.14 13.10	
Subcontractor: SUB: E871002	Prep seq: 656346	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	06.03.14 00:48	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	06.03.14 00:48	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	06.03.14 00:48	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	06.03.14 00:48	U	1

Sample Id: 942283-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 942283-1-BLK	Date Collected:	Date Received:
Analytical Method: TDS by SM2540C		Prep Method:
Analyst: WRU	% Moist:	Tech: WRU
Seq Number: 942283	Date Prep:	
	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.29.14 12:00	U	1

Sample Id: 942432-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 942432-1-BLK	Date Collected:	Date Received:
Analytical Method: Chromium, Hexavalent by SW 7196A		Prep Method:
Analyst: JUM	% Moist:	Tech: JUM
Seq Number: 942432	Date Prep:	
	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.29.14 19:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 486340,

Project ID: 073018

Lab Batch #: 942157

Sample: 656235-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/30/14 05:33	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0256	0.0300	85	80-120
4-Bromofluorobenzene		0.0286	0.0300	95	80-120

Lab Batch #: 942157

Sample: 656235-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/30/14 05:50	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0270	0.0300	90	80-120
4-Bromofluorobenzene		0.0328	0.0300	109	80-120

Lab Batch #: 942157

Sample: 656235-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/30/14 06:05	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0269	0.0300	90	80-120
4-Bromofluorobenzene		0.0319	0.0300	106	80-120

Lab Batch #: 942157

Sample: 486227-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/30/14 06:21	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0276	0.0300	92	80-120
4-Bromofluorobenzene		0.0337	0.0300	112	80-120

Lab Batch #: 942157

Sample: 486227-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 05/30/14 06:37	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0277	0.0300	92	80-120
4-Bromofluorobenzene		0.0336	0.0300	112	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 486340,

Project ID: 073018

Lab Batch #: 942305

Sample: 656307-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:03

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.86	9.88	100	70-135	
o-Terphenyl	4.05	4.94	82	70-135	

Lab Batch #: 942305

Sample: 656307-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.73	9.88	78	70-135	
o-Terphenyl	4.06	4.94	82	70-135	

Lab Batch #: 942305

Sample: 656307-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 17:52

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.96	9.88	81	70-135	
o-Terphenyl	3.94	4.94	80	70-135	

Lab Batch #: 942305

Sample: 486227-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/31/14 23:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.8	9.88	109	70-135	
o-Terphenyl	5.51	4.94	112	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 486340

Project ID:

073018

Lab Batch #: 942432

Sample: 942432-1-BKS

Matrix: Water

Date Analyzed: 05/29/2014

Date Prepared: 05/29/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0365	91	80-120	

Lab Batch #: 942283

Sample: 942283-1-BKS

Matrix: Water

Date Analyzed: 05/29/2014

Date Prepared: 05/29/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Total dissolved solids	<5.00	1000	947	95	80-120	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 486340

Project ID: 073018

Analyst: ARM

Date Prepared: 05/29/2014

Date Analyzed: 05/30/2014

Lab Batch ID: 942157

Sample: 656235-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0970	97	0.100	0.0957	96	1	70-125	25	
Toluene	<0.00100	0.100	0.0959	96	0.100	0.0949	95	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.102	102	0.100	0.101	101	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.209	105	0.200	0.207	104	1	70-131	25	
o-Xylene	<0.000700	0.100	0.107	107	0.100	0.105	105	2	71-133	25	

Analyst: MKO

Date Prepared: 06/02/2014

Date Analyzed: 06/03/2014

Lab Batch ID: 942392

Sample: 656346-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.03	103	1.00	1.05	105	2	80-120	20	
Chromium	<0.000811	1.00	1.06	106	1.00	1.09	109	3	80-120	20	
Iron	<0.0283	5.00	5.21	104	5.00	5.32	106	2	80-120	20	
Manganese	<0.00316	1.00	1.03	103	1.00	1.06	106	3	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 486340

Project ID: 073018

Analyst: RKO

Date Prepared: 05/30/2014

Date Analyzed: 05/30/2014

Lab Batch ID: 942347

Sample: 656200-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	23.9	96	25.0	22.5	90	6	80-120	20	

Analyst: ARM

Date Prepared: 05/30/2014

Date Analyzed: 05/31/2014

Lab Batch ID: 942305

Sample: 656307-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	85.8	87	98.8	89.7	91	4	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	92.8	94	98.8	91.6	93	1	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 486340

Lab Batch #: 942347

Date Analyzed: 05/30/2014

QC- Sample ID: 486279-001 S

Reporting Units: mg/L

Date Prepared: 05/30/2014

Batch #: 1

Project ID: 073018

Analyst: RKO

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	779	2500	3080	92	80-120	

Lab Batch #: 942305

Date Analyzed: 05/31/2014

QC- Sample ID: 486227-001 S

Reporting Units: mg/L

Date Prepared: 05/30/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	88.1	89	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	86.6	88	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 486340

Project ID: 073018

Lab Batch ID: 942157

QC- Sample ID: 486227-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/30/2014

Date Prepared: 05/29/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.101	101	0.100	0.102	102	1	70-125	25	
Toluene	<0.00100	0.100	0.100	100	0.100	0.101	101	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.107	107	0.100	0.108	108	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.219	110	0.200	0.221	111	1	70-131	25	
o-Xylene	<0.000700	0.100	0.111	111	0.100	0.112	112	1	71-133	25	

Lab Batch ID: 942432

QC- Sample ID: 486340-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/29/2014

Date Prepared: 05/29/2014

Analyst: JUM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.0341	0.200	0.228	97	0.200	0.227	96	0	80-120	20	

Lab Batch ID: 942392

QC- Sample ID: 486180-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 06/03/2014

Date Prepared: 06/02/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	0.0187	1.00	1.08	106	1.00	1.06	104	2	75-125	20	
Chromium	0.102	1.00	1.16	106	1.00	1.14	104	2	75-125	20	
Iron	<0.0283	5.00	4.77	95	5.00	4.73	95	1	75-125	20	
Manganese	<0.00316	1.00	1.06	106	1.00	1.03	103	3	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 486340

Lab Batch #: 942283

Project ID: 073018

Date Analyzed: 05/29/2014 12:00

Date Prepared: 05/29/2014

Analyst: WRU

QC- Sample ID: 486279-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	5220	5680	8	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



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1803A0

A = Air
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW = Waste Water
W = Wipe
O = Oil
WW = Waste Water



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/29/2014 01:30:00 PM

Work Order #: 486340

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	No
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by: Kelsey Brooks
Kelsey Brooks

Date: 05/29/2014

Checklist reviewed by: Kelsey Brooks
Kelsey Brooks

Date: 05/29/2014

Analytical Report 485996

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

Eunice NM

073018

12-JUN-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-16-TX), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



12-JUN-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **485996**

Eunice NM

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 485996. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 485996 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Sample Cross Reference 485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-2A 052214	W	05-22-14 09:30		485996-001
IW-28 052214	W	05-22-14 10:05		485996-002
MW-2 052214	W	05-22-14 10:30		485996-003
IW-27 052214	W	05-22-14 11:00		485996-004
MW-42A 052214	W	05-22-14 11:20		485996-005
MW90SA 052214	W	05-22-14 11:45		485996-006
MW-45 052214	W	05-22-14 14:30		485996-007
IW-26 052214	W	05-22-14 14:35		485996-008
IW-25 052214	W	05-22-14 14:45		485996-009
MW-46A 052214	W	05-22-14 16:00		485996-010
IW-24 052214	W	05-22-14 16:40		485996-011
DUP-10 052214	W	05-22-14 00:00		485996-012
TRIP BLK	W	05-22-14 00:00		485996-013



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *Eunice NM*

Project ID: 073018
Work Order Number(s): 485996

Report Date: 12-JUN-14
Date Received: 05/22/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-942125 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 485665-001 S, 485665-001 SD.

Batch: LBA-942204 Dissolved Metals per ICP by SW846 6010B

Manganese detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Samples affected are: 485996-004, -005, -001, -006, -002, -008, -011, -007, -012, -003, -009, -010.



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: MW-2A 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-001

Date Collected: 05.22.14 09.30

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1090	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	341	100	2.80	mg/L	05.28.14 21:42		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0108	0.0200	0.00550	mg/L	05.29.14 18:16	J	1
Chromium	7440-47-3	0.0207	0.0100	0.000811	mg/L	05.29.14 18:16		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 18:16	U	1
Manganese	7439-96-5	0.00779	0.0200	0.00316	mg/L	05.29.14 18:16	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0161	0.0100	0.00500	mg/L	05.23.14 09:20		1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: MW-2A 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-001

Date Collected: 05.22.14 09.30

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	05.31.14 05:57	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.31.14 05:57	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.31.14 05:57	U	1
Total TPH	PHC635	ND		0.975	mg/L	05.31.14 05:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	113	70 - 135	%		
o-Terphenyl	93	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942125

Date Prep: 05.28.14 14.00

Prep seq: 656179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 03:32	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 03:32	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 03:32	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 03:32	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 03:32	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 03:32	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 03:32	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **IW-28 052214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-002

Date Collected: 05.22.14 10.05

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1350	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	201	100	2.80	mg/L	05.28.14 21:08		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.29.14 18:49	U	1
Chromium	7440-47-3	0.0369	0.0100	0.000811	mg/L	05.29.14 18:49		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 18:49	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.29.14 18:49	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0341	0.0100	0.00500	mg/L	05.23.14 09:20		1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: IW-28 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-002

Date Collected: 05.22.14 10.05

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 06:51	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 06:51	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 06:51	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.31.14 06:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	113	70 - 135	%		
o-Terphenyl	93	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942125

Date Prep: 05.28.14 14.00

Prep seq: 656179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 03:48	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 03:48	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 03:48	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 03:48	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 03:48	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 03:48	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 03:48	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	102	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **MW-2 052214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-003

Date Collected: 05.22.14 10.30

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3180	5.00	5.00	mg/L	06.06.14 12:42		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	912	100	2.80	mg/L	05.28.14 21:25		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00951	0.0200	0.00550	mg/L	05.29.14 18:55	J	1
Chromium	7440-47-3	0.0382	0.0100	0.000811	mg/L	05.29.14 18:55		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 18:55	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.29.14 18:55	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0364	0.0100	0.00500	mg/L	05.23.14 09:20		1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: MW-2 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-003

Date Collected: 05.22.14 10.30

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 07:18	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 07:18	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 07:18	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.31.14 07:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	73	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942125

Date Prep: 05.28.14 14.00

Prep seq: 656179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 04:04	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 04:04	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 04:04	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 04:04	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 04:04	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 04:04	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 04:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	102	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: IW-27 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-004

Date Collected: 05.22.14 11.00

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1660	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	167	100	2.80	mg/L	05.28.14 22:33		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00784	0.0200	0.00550	mg/L	05.29.14 19:15	J	1
Chromium	7440-47-3	0.0139	0.0100	0.000811	mg/L	05.29.14 19:15		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 19:15	U	1
Manganese	7439-96-5	0.00718	0.0200	0.00316	mg/L	05.29.14 19:15	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0103	0.0100	0.00500	mg/L	05.23.14 09:20		1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: IW-27 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-004

Date Collected: 05.22.14 11.00

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 07:45	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 07:45	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 07:45	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.31.14 07:45	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	117	70 - 135	%		
o-Terphenyl	95	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942125

Date Prep: 05.28.14 14.00

Prep seq: 656179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 04:21	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 04:21	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 04:21	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 04:21	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 04:21	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 04:21	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 04:21	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	101	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **MW-42A 052214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-005

Date Collected: 05.22.14 11.20

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1160	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	418	100	2.80	mg/L	05.28.14 22:51		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.29.14 19:21	U	1
Chromium	7440-47-3	0.0348	0.0100	0.000811	mg/L	05.29.14 19:21		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 19:21	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.29.14 19:21	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0337	0.0100	0.00500	mg/L	05.23.14 09:20		1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: MW-42A 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-005

Date Collected: 05.22.14 11.20

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 08:11	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 08:11	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 08:11	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.31.14 08:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	87	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942125

Date Prep: 05.28.14 14.00

Prep seq: 656179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 04:37	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 04:37	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 04:37	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 04:37	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 04:37	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 04:37	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 04:37	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **MW90SA 052214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-006

Date Collected: 05.22.14 11.45

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1950	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	281	100	2.80	mg/L	05.28.14 23:08		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.29.14 19:28	U	1
Chromium	7440-47-3	0.00579	0.0100	0.000811	mg/L	05.29.14 19:28	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 19:28	U	1
Manganese	7439-96-5	0.00331	0.0200	0.00316	mg/L	05.29.14 19:28	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.23.14 09:20	U	1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: MW90SA 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-006

Date Collected: 05.22.14 11.45

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 08:36	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 08:36	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 08:36	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.31.14 08:36	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	89	70 - 135	%		
o-Terphenyl	72	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942125

Date Prep: 05.28.14 14.00

Prep seq: 656179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 04:54	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 04:54	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 04:54	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 04:54	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 04:54	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 04:54	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 04:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	100	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: MW-45 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-007

Date Collected: 05.22.14 14.30

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1130	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	168	100	2.80	mg/L	05.28.14 23:25		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00641	0.0200	0.00550	mg/L	05.29.14 19:35	J	1
Chromium	7440-47-3	0.00701	0.0100	0.000811	mg/L	05.29.14 19:35	J	1
Iron	7439-89-6	0.146	0.200	0.0283	mg/L	05.29.14 19:35	J	1
Manganese	7439-96-5	0.289	0.0200	0.00316	mg/L	05.29.14 19:35		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0500	0.0250	mg/L	05.23.14 09:20	U	5



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: MW-45 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-007

Date Collected: 05.22.14 14.30

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	1.69	1.48	0.975	mg/L	05.31.14 09:02		1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	1.15	1.48	0.975	mg/L	05.31.14 09:02	J	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.31.14 09:02	U	1
Total TPH	PHC635	2.84		0.975	mg/L	05.31.14 09:02		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	83	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942131

Date Prep: 05.28.14 14.00

Prep seq: 656182

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	0.0135	0.00100	0.000800	mg/L	05.29.14 13:05		1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 13:05	U	1
Ethylbenzene	100-41-4	0.0722	0.00100	0.000800	mg/L	05.29.14 13:05		1
m,p-Xylenes	179601-23-1	0.0173	0.00200	0.00140	mg/L	05.29.14 13:05		1
o-Xylene	95-47-6	0.0303	0.00100	0.000700	mg/L	05.29.14 13:05		1
Total Xylenes	1330-20-7	0.0476		0.000700	mg/L	05.29.14 13:05		
Total BTEX		0.133		0.000700	mg/L	05.29.14 13:05		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	88	80 - 120	%		
4-Bromofluorobenzene	112	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: IW-26 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-008

Date Collected: 05.22.14 14.35

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2750	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	593	100	2.80	mg/L	05.28.14 23:42		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00624	0.0200	0.00550	mg/L	05.29.14 19:41	J	1
Chromium	7440-47-3	0.114	0.0100	0.000811	mg/L	05.29.14 19:41		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 19:41	U	1
Manganese	7439-96-5	0.0121	0.0200	0.00316	mg/L	05.29.14 19:41	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.117	0.0100	0.00500	mg/L	05.23.14 09:20		1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **IW-26 052214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-008

Date Collected: 05.22.14 14.35

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 09:27	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 09:27	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 09:27	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.31.14 09:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	85	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942131

Date Prep: 05.28.14 14.00

Prep seq: 656182

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 11:58	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 11:58	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 11:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 11:58	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 11:58	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 11:58	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 11:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: IW-25 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-009

Date Collected: 05.22.14 14.45

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2730	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	680	100	2.80	mg/L	05.29.14 00:33		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.29.14 19:48	U	1
Chromium	7440-47-3	0.0595	0.0100	0.000811	mg/L	05.29.14 19:48		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 19:48	U	1
Manganese	7439-96-5	0.345	0.0200	0.00316	mg/L	05.29.14 19:48		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.23.14 09:20	U	1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: IW-25 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-009

Date Collected: 05.22.14 14.45

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	05.31.14 09:52	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	05.31.14 09:52	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	05.31.14 09:52	U	1
Total TPH	PHC635	ND		0.975	mg/L	05.31.14 09:52	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	117	70 - 135	%		
o-Terphenyl	97	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942131

Date Prep: 05.28.14 14.00

Prep seq: 656182

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 12:48	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 12:48	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 12:48	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 12:48	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 12:48	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 12:48	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 12:48	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	103	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **MW-46A 052214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-010

Date Collected: 05.22.14 16.00

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1430	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	333	100	2.80	mg/L	05.29.14 00:50		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00714	0.0200	0.00550	mg/L	05.29.14 19:54	J	1
Chromium	7440-47-3	0.0627	0.0100	0.000811	mg/L	05.29.14 19:54		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 19:54	U	1
Manganese	7439-96-5	0.00484	0.0200	0.00316	mg/L	05.29.14 19:54	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0585	0.0100	0.00500	mg/L	05.23.14 09:20		1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **MW-46A 052214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-010

Date Collected: 05.22.14 16.00

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 10:20	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 10:20	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 10:20	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.31.14 10:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	110	70 - 135	%		
o-Terphenyl	89	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942131

Date Prep: 05.28.14 14.00

Prep seq: 656182

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 12:15	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 12:15	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 12:15	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 12:15	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 12:15	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 12:15	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 12:15	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	102	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: IW-24 052214

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-011

Date Collected: 05.22.14 16.40

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3190	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	724	100	2.80	mg/L	05.29.14 01:07		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.29.14 20:01	U	1
Chromium	7440-47-3	0.321	0.0100	0.000811	mg/L	05.29.14 20:01		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 20:01	U	1
Manganese	7439-96-5	0.00925	0.0200	0.00316	mg/L	05.29.14 20:01	BJ	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942033

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.306	0.0100	0.00500	mg/L	05.23.14 09:20		1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **IW-24 052214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-011

Date Collected: 05.22.14 16.40

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	06.02.14 13:37	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	2.16	1.48	0.975	mg/L	06.02.14 13:37		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	06.02.14 13:37	U	1
Total TPH	PHC635	2.16		0.975	mg/L	06.02.14 13:37		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	126	70 - 135	%		
o-Terphenyl	126	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942131

Date Prep: 05.28.14 14.00

Prep seq: 656182

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 12:32	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 12:32	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 12:32	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 12:32	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 12:32	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 12:32	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 12:32	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	92	80 - 120	%		
4-Bromofluorobenzene	105	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **DUP-10 052214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-012

Date Collected: 05.22.14 00.00

Date Received: 05.22.14 18.20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1400	5.00	5.00	mg/L	05.28.14 15:44		1

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: DEP

% Moist:

Tech: DEP

Seq Number: 942062

Date Prep: 05.28.14 12.58

Subcontractor: SUB: E871002

Prep seq: 656169

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	334	100	2.80	mg/L	05.29.14 01:24		100

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: MKO

% Moist:

Tech: MKO

Seq Number: 942204

Date Prep: 05.29.14 10.00

Subcontractor: SUB: E871002

Prep seq: 656172

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.29.14 20:07	U	1
Chromium	7440-47-3	0.0612	0.0100	0.000811	mg/L	05.29.14 20:07		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 20:07	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	05.29.14 20:07	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942033

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0580	0.0100	0.00500	mg/L	05.23.14 09:20		1



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **DUP-10 052214**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-012

Date Collected: 05.22.14 00.00

Date Received: 05.22.14 18.20

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 12:13	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 12:13	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 12:13	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.31.14 12:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	92	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942131

Date Prep: 05.28.14 14.00

Prep seq: 656182

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 15:34	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 15:34	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 15:34	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 15:34	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 15:34	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 15:34	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 15:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	101	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **TRIP BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 485996-013

Date Collected: 05.22.14 00.00

Date Received: 05.22.14 18.20

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942131

Date Prep: 05.28.14 14.00

Prep seq: 656182

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 15:18	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 15:18	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 15:18	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 15:18	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 15:18	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	05.29.14 15:18	U	
Total BTEX		ND		0.000700	mg/L	05.29.14 15:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	91	80 - 120	%		
4-Bromofluorobenzene	103	80 - 120	%		

Certificate of Analytical Results

485996

Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: 656169-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 656169-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: DEP	% Moist:	Tech: DEP
Seq Number: 942062	Date Prep: 05.28.14 12.58	
Subcontractor: SUB: E871002	Prep seq: 656169	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	05.28.14 17:09	U	1

Sample Id: 656172-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 656172-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: MKO	% Moist:	Tech: MKO
Seq Number: 942204	Date Prep: 05.29.14 10.00	
Subcontractor: SUB: E871002	Prep seq: 656172	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	05.29.14 17:57	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	05.29.14 17:57	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	05.29.14 17:57	U	1
Manganese	7439-96-5	0.00500	0.0200	0.00316	mg/L	05.29.14 17:57	J	1

Sample Id: 656179-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 656179-1-BLK	Date Collected:	Date Received:
Analytical Method: BTEX by EPA 8021B		Prep Method: 5030B
Analyst: ARM	% Moist:	Tech: ARM
Seq Number: 942125	Date Prep: 05.28.14 14.00	
	Prep seq: 656179	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.28.14 21:30	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.28.14 21:30	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.28.14 21:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.28.14 21:30	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.28.14 21:30	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	89	80 - 120	%		
4-Bromofluorobenzene	102	80 - 120	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: 656182-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656182-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942131

Date Prep: 05.28.14 14.00

Prep seq: 656182

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	05.29.14 06:16	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	05.29.14 06:16	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	05.29.14 06:16	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	05.29.14 06:16	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	05.29.14 06:16	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	90	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		

Sample Id: 656306-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 656306-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 942303

Date Prep: 05.30.14 14.00

Prep seq: 656306

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	05.31.14 04:38	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	05.31.14 04:38	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	05.31.14 04:38	U	1
Total TPH	PHC635	ND		0.976	mg/L	05.31.14 04:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	93	70 - 135	%		



Certificate of Analytical Results

485996



Conestoga Rovers & Associates, Midland, TX

Eunice NM

Sample Id: **941963-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 941963-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 941963

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	05.28.14 15:44	U	1

Sample Id: **942031-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 942031-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942031

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.23.14 09:20	U	1

Sample Id: **942033-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 942033-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 942033

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	05.23.14 09:20	U	1

Sample Id: **942750-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 942750-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: ANS

% Moist:

Tech: ANS

Seq Number: 942750

Date Prep:

Subcontractor: SUB: E871002

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	06.06.14 12:42	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Sample Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: Eunice NM

Work Orders : 485996,

Project ID: 073018

Lab Batch #: 942125

Sample: 656179-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/28/14 21:30		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0267	0.0300	89	80-120
4-Bromofluorobenzene		0.0306	0.0300	102	80-120

Lab Batch #: 942125

Sample: 656179-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/28/14 21:46		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0287	0.0300	96	80-120
4-Bromofluorobenzene		0.0354	0.0300	118	80-120

Lab Batch #: 942125

Sample: 656179-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/28/14 22:03		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0278	0.0300	93	80-120
4-Bromofluorobenzene		0.0341	0.0300	114	80-120

Lab Batch #: 942125

Sample: 485665-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/28/14 22:19		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0498	0.0300	166	80-120 **
4-Bromofluorobenzene		0.0258	0.0300	86	80-120

Lab Batch #: 942125

Sample: 485665-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 05/28/14 22:35		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					Flags
1,4-Difluorobenzene		0.0489	0.0300	163	80-120 **
4-Bromofluorobenzene		0.0249	0.0300	83	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Eunice NM

Work Orders : 485996,

Project ID: 073018

Lab Batch #: 942131

Sample: 656182-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/29/14 06:16

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 942131

Sample: 656182-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/29/14 06:32

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0335	0.0300	112	80-120	

Lab Batch #: 942131

Sample: 656182-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/29/14 06:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0287	0.0300	96	80-120	
4-Bromofluorobenzene	0.0325	0.0300	108	80-120	

Lab Batch #: 942131

Sample: 485643-002 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/29/14 07:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0278	0.0300	93	80-120	
4-Bromofluorobenzene	0.0346	0.0300	115	80-120	

Lab Batch #: 942131

Sample: 485643-002 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 05/29/14 07:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: Eunice NM

Work Orders : 485996,

Project ID: 073018

Lab Batch #: 942303

Sample: 656306-1-BLK / BLK

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 05/31/14 04:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.4	9.87	105	70-135	
o-Terphenyl	4.58	4.94	93	70-135	

Lab Batch #: 942303

Sample: 656306-1-BKS / BKS

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 05/31/14 05:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	8.18	9.88	83	70-135	
o-Terphenyl	4.56	4.94	92	70-135	

Lab Batch #: 942303

Sample: 656306-1-BSD / BSD

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 05/31/14 05:30

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	7.46	9.88	76	70-135	
o-Terphenyl	3.53	4.94	71	70-135	

Lab Batch #: 942303

Sample: 485996-001 S / MS

Batch: 1 **Matrix:** Water

Units: mg/L

Date Analyzed: 05/31/14 06:24

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.0	9.87	122	70-135	
o-Terphenyl	6.06	4.93	123	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: Eunice NM

Work Order #: 485996

Project ID:

073018

Lab Batch #: 942031

Sample: 942031-1-BKS

Matrix: Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0388	97	80-120	

Lab Batch #: 942033

Sample: 942033-1-BKS

Matrix: Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0383	96	80-120	

Lab Batch #: 942062

Sample: 656169-1-BKS

Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: DEP

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloride	<0.0280	10.0	10.0	100	80-120	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: Eunice NM

Work Order #: 485996

Project ID: 073018

Analyst: ARM

Date Prepared: 05/28/2014

Date Analyzed: 05/28/2014

Lab Batch ID: 942125

Sample: 656179-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0984	98	0.100	0.0963	96	2	70-125	25	
Toluene	<0.00100	0.100	0.0982	98	0.100	0.0964	96	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.106	106	0.100	0.104	104	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.220	110	0.200	0.215	108	2	70-131	25	
o-Xylene	<0.000700	0.100	0.109	109	0.100	0.107	107	2	71-133	25	

Analyst: ARM

Date Prepared: 05/28/2014

Date Analyzed: 05/29/2014

Lab Batch ID: 942131

Sample: 656182-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0940	94	0.100	0.0937	94	0	70-125	25	
Toluene	<0.00100	0.100	0.0929	93	0.100	0.0916	92	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0980	98	0.100	0.0961	96	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.201	101	0.200	0.197	99	2	70-131	25	
o-Xylene	<0.000700	0.100	0.102	102	0.100	0.0999	100	2	71-133	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: Eunice NM

Work Order #: 485996

Project ID: 073018

Analyst: MKO

Date Prepared: 05/29/2014

Date Analyzed: 05/29/2014

Lab Batch ID: 942204

Sample: 656172-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.967	97	1.00	0.932	93	4	80-120	20	
Chromium	<0.000811	1.00	1.03	103	1.00	0.990	99	4	80-120	20	
Iron	<0.0283	5.00	5.17	103	5.00	4.96	99	4	80-120	20	
Manganese	0.00500	1.00	0.996	100	1.00	0.960	96	4	80-120	20	

Analyst: ANS

Date Prepared: 05/28/2014

Date Analyzed: 05/28/2014

Lab Batch ID: 941963

Sample: 941963-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	970	97	1000	975	98	1	80-120	10	

Analyst: ANS

Date Prepared: 06/06/2014

Date Analyzed: 06/06/2014

Lab Batch ID: 942750

Sample: 942750-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TDS by SM2540C	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Total dissolved solids	<5.00	1000	979	98	1000	994	99	2	80-120	10	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: Eunice NM

Work Order #: 485996

Project ID: 073018

Analyst: ARM

Date Prepared: 05/30/2014

Date Analyzed: 05/31/2014

Lab Batch ID: 942303

Sample: 656306-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.8	95.2	96	98.8	79.1	80	18	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.8	102	103	98.8	79.4	80	25	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Eunice NM



Work Order #: 485996

Lab Batch #: 942303

Date Analyzed: 05/31/2014

QC- Sample ID: 485996-001 S

Reporting Units: mg/L

Date Prepared: 05/30/2014

Batch #: 1

Project ID: 073018

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	108	109	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	107	108	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: Eunice NM

Work Order # : 485996

Project ID: 073018

Lab Batch ID: 942125

QC- Sample ID: 485665-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.0949	95	0.100	0.0931	93	2	70-125	25	
Toluene	0.00715	0.100	0.0869	80	0.100	0.0841	77	3	70-125	25	
Ethylbenzene	0.280	0.100	0.194	0	0.100	0.198	0	2	71-129	25	X
m,p-Xylenes	1.55	0.200	0.840	0	0.200	0.884	0	5	70-131	25	X
o-Xylene	0.396	0.100	0.260	0	0.100	0.265	0	2	71-133	25	X

Lab Batch ID: 942131

QC- Sample ID: 485643-002 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/29/2014

Date Prepared: 05/28/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.00987	0.100	0.0907	81	0.100	0.0961	86	6	70-125	25	
Toluene	0.0647	0.100	0.117	52	0.100	0.125	60	7	70-125	25	X
Ethylbenzene	0.0208	0.100	0.0954	75	0.100	0.102	81	7	71-129	25	
m,p-Xylenes	0.0573	0.200	0.202	72	0.200	0.215	79	6	70-131	25	
o-Xylene	0.0224	0.100	0.104	82	0.100	0.108	86	4	71-133	25	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: Eunice NM

Work Order # : 485996

Project ID: 073018

Lab Batch ID: 942031

QC- Sample ID: 485996-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.0161	0.200	0.209	96	0.200	0.211	97	1	80-120	20	

Lab Batch ID: 942033

QC- Sample ID: 485996-011 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/23/2014

Date Prepared: 05/23/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.306	0.200	0.500	97	0.200	0.502	98	0	80-120	20	

Lab Batch ID: 942204

QC- Sample ID: 485996-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 05/29/2014

Date Prepared: 05/29/2014

Analyst: MKO

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	0.0108	1.00	0.966	96	1.00	1.03	102	6	75-125	20	
Chromium	0.0207	1.00	0.996	98	1.00	1.06	104	6	75-125	20	
Iron	<0.0283	5.00	4.57	91	5.00	4.90	98	7	75-125	20	
Manganese	0.00779	1.00	0.958	95	1.00	1.03	102	7	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



Form 3 - MS / MSD Recoveries



Project Name: Eunice NM

Work Order # : 485996

Project ID: 073018

Lab Batch ID: 942062

QC- Sample ID: 485906-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	485	1000	1460	98	1000	1480	100	1	80-120	20	

Lab Batch ID: 942062

QC- Sample ID: 485996-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 05/28/2014

Date Prepared: 05/28/2014

Analyst: DEP

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	341	1000	1340	100	1000	1330	99	1	80-120	20	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$
Relative Percent Difference $RPD = 200 * |(C - F) / (C + F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: Eunice NM

Work Order #: 485996

Lab Batch #: 941963

Project ID: 073018

Date Analyzed: 05/28/2014 15:44

Date Prepared: 05/28/2014

Analyst: ANS

QC- Sample ID: 485972-003 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	61300	61500	0	10	

Lab Batch #: 941963

Date Analyzed: 05/28/2014 15:44

Date Prepared: 05/28/2014

Analyst: ANS

QC- Sample ID: 485996-006 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1950	2060	5	10	

Lab Batch #: 942750

Date Analyzed: 06/06/2014 12:42

Date Prepared: 06/06/2014

Analyst: ANS

QC- Sample ID: 485996-003 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3180	2980	6	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



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Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

CHAIN OF CUSTODY

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Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

Xenco Quote #		Xenco Job #	
		485996	
Analytical Information		Matrix Codes	
Dissolved Metals 6010B TDS SM2540C Chlorides E300 TPH GRO + DRO 8015md BTEX 8021B Hexachlor 7196A		A = Air S = Soil/Sed/Solid GW = Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge WW = Waste Water W = Wipe O = Oil WW = Waste Water	
Field Comments			

Client / Reporting Information		Project Information	
Company Name / Branch: CRA - Midland		Project Name/Number: N. Eunice / 073018	
Company Address: 2135 S. Loop 250 W. Midland, TX 79701		Project Location: Eunice, NM	
Email: mwisniowiecki@craworld.com Phone No: 432-686-0086		Invoice To:	
Project Contact: Mike Wisniowiecki		PO Number:	
Samplers's Name: Chris Evans, Justin Nixon			
No.	Field ID / Point of Collection	Collection	Number of preserved bottles
		Sample Depth Date Time Matrix # of bottles	HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MeOH NONE
1	MW-2A 052214	5-22 0930 W 6 4	2 X X X X X X
2	1W-28 052214	5-22 1005 W 6 4	2 X X X X X X
3	MW-2 052214	5-22 1030 W 6 4	2 X X X X X X
4	1W-27 052214	5-22 1100 W 6 4	2 X X X X X X
5	MW-42A 052214	5-22 1120 W 6 4	2 X X X X X X
6	MW-90SA 052214	5-22 1145 W 6 4	2 X X X X X X
7	MW-45 052214	5-22 1430 W 6 4	2 X X X X X X
8	1W-26 052214	5-22 1435 W 6 4	2 X X X X X X
9	1W-25 052214	5-22 1545 W 6 4	2 X X X X X X
10	MW-46A 052214	5-22 1600 W 6 4	2 X X X X X X

Turnaround Time (Business days)		Data Deliverable Information		Notes:	
☐ Same Day TAT	☐ 5 Day TAT	☐ Level II Std QC	☐ Level IV (Full Data Pkg /raw data)		
☐ Next Day EMERGENCY	☐ 7 Day TAT	☐ Level III Std QC+ Forms	☐ TRRP Level IV		
☐ 2 Day EMERGENCY	☐ Contract TAT	☐ Level 3 (CLP Forms)	☐ UST / RG -411		
☐ 3 Day EMERGENCY		☐ TRRP Checklist			
TAT Starts Day received by Lab, if received by 3:00 pm				FED-EX / UPS: Tracking #	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY					
Relinquished by Sampler:		Date Time:	Received By:	Relinquished By:	Date Time:
1 Chris Evans		5-22-14/	1 Bill Ruhman	2	5-22/14 18:20
Relinquished by:		Date Time:	Received By:	Relinquished By:	Date Time:
3 Bill Ruhman		5-22-14 15:03		4	
Relinquished by:		Date Time:	Received By:		
5			5		

Custody Seal #	Preserved where applicable	On Ice	Cooler Temp.	Thermo. Corr. Factor

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.

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Stafford, Texas (281-240-4200)

Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

Page 2 Of 2

CHAIN OF CUSTODY

Odessa, Texas (432-563-1800)

Lakeland, Florida (863-646-8526)

Norcross, Georgia (770-449-8800)

Tampa, Florida (813-620-2000)

Xenco Quote #

Xenco Job #	
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485914

Client / Reporting Information										Project Information										Analytical Information										Matrix Codes																																																	
Company Name / Branch:					CRA-Midland					Project Name/Number:					N. Eunice / 073018					Dissolved Metals 6010B TDS 5m2540C Chlorides E300 TPH GRO+DRO 8015mod BTEX 8021B HexChrom 71960A					A= Air S = Soil/Sed/Solid GW =Ground Water DW = Drinking Water P = Product SW = Surface water SL = Sludge WW= Waste Water W = Wipe O = Oil WW= Waste Water																																																						
Company Address:					2135 S. Loop 250W. Midland, TX 79701					Project Location:					Eunice, NM																																																																
Email:					mwisniowiecki@era-world.com					Phone No:					432-686-0086																																																																
Project Contact:					Mike Wisniowiecki					Invoice To:																																																																					
Samplers's Name:					Chris Evans, Justin Nixon					PO Number:																																																																					
No. Field ID / Point of Collection										Collection										Number of preserved bottles										Field Comments																																																	
										Sample Depth Date Time Matrix # of bottles HCl NaOH/Zn Acetate HNO3 H2SO4 NaOH NaHSO4 MECH NONE																																																																					
1 IW-24 052214										5-22 1640 W 6 4										2 X X X X X X																																																											
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Relinquished by Sampler:										Date Time:										Received By:										Relinquished By:										Date Time:										Received By:																													
1 Chris Evans										5-22-14/										1 Belk Ruma										2										5-22-14 18:20										2																													
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Relinquished by:										Date Time:										Received By:										Custody Seal #										Preserved where applicable										On Ice										Cooler Temp.										Thermo. Corr. Factor									
5																				5																																																											

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Final 1.001

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 05/22/2014 06:20:00 PM

Work Order #: 485996

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ?	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	Yes

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:	PH Device/Lot#:
----------	-----------------

Checklist completed by:

Ruriko Konuma

Date: 05/23/2014

Checklist reviewed by:

Kelsey Brooks

Date: 05/23/2014



MEMORANDUM

To: Mike Wisniowiecki REF. No.: 073018

FROM: Claudia Ramos/eew/10-NF *CR* DATE: January 23, 2015

RE: **Analytical Results and Reduced Validation
Groundwater Sampling Event
Chevron Environmental Management Company (CEMC)/North Eunice
Eunice, New Mexico
November 2014**

1.0 Introduction

The following document details a reduced validation of analytical results for groundwater samples collected at the North Eunice, New Mexico site during November 2014. Samples were submitted to Xenco Laboratories, located in Odessa, Texas. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard Conestoga-Rovers & Associates (CRA) report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, duplicate data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS), and field QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

- i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999
- ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994

Items i) and ii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2.0 Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3.0 Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Most method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation. One method blank yielded detected results for ferrous iron (dissolved). The associated sample results with concentrations similar to the blank concentrations were qualified non-detect (see Table 4).

4.0 Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX) determinations were spiked with the appropriate number of surrogate compounds prior to sample analysis.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the above criteria.

5.0 Laboratory Control Sample Analyses

LCS and/or laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

Organic Analyses

The LCS/LCSD contained all compounds of interest. All LCS recoveries and RPDs were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits, demonstrating acceptable analytical accuracy and precision.

6.0 Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the extraction or digestion process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

The laboratory performed additional site-specific MS/MSD analyses internally.

Organic Analyses

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision, with the exception of low percent recovery values reported for ferrous iron (dissolved) in one batch. All associated sample results were qualified as estimated (see Table 5)

7.0 Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The laboratory performed additional site-specific duplicate analyses internally. The duplicate results were evaluated per the "Guidelines". All duplicate analyses performed were acceptable, demonstrating acceptable analytical

precision, with the exception of total dissolved organics (TDS). All associated sample results were qualified as estimated (see Table 6).

8.0 Field QA/QC Samples

The field QA/QC consisted of eight trip blank samples and five field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, eight trip blanks were submitted to the laboratory for BTEX analysis. All results were non-detect for the compounds of interest.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, five field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water sample. If the reported concentration in either the investigative sample or its duplicate is less than five times the practical quantitation limit (PQL), the evaluation criterion is one time the PQL value for water and soil samples, respectively.

All field duplicate results showed adequate reproducibility, indicating satisfactory sampling and laboratory precision.

9.0 Analyte Reporting

Non-detect data were reported down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the PQL but greater than the MDL were qualified as estimated (J) in Table 2.

10.0 Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the qualifications noted herein.

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014

					Analysis/Parameters						
Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Chloride	Metals, Dissolved (Arsenic, Chromium, Iron, Manganese)	TDS	Chromium VI (hexavalent)	TPH	BTEX	Comments
496589											
MW-20-110414	MW020	Water	11/04/2014	09:40	X	X	X	X	X	X	MS/MSD
MW-20A-110414	MW020A	Water	11/04/2014	10:30	X	X	X	X	X	X	
MW-19A-110414	MW019A	Water	11/04/2014	12:05	X	X	X	X	X	X	
MW-18-110414	MW018	Water	11/04/2014	13:40	X	X	X	X	X	X	
MW-15-110414	MW015	Water	11/04/2014	15:05	X	X	X	X	X	X	MS/MSD
496676-001											
MW-10-110514	MW010	Water	11/05/2014	10:10	X	X	X	X	X	X	MS/MSD
MW-14-110514	MW014	Water	11/05/2014	11:05	X	X	X	X	X	X	
MW-14A-110514	MW014A	Water	11/05/2014	12:00	X	X	X	X	X	X	
MW-26-110514	MW026	Water	11/05/2014	12:40	X	X	X	X	X	X	
MW-27-110514	MW027	Water	11/05/2014	13:15	X	X	X	X	X	X	Duplicate of MW-10-110514
MW-32-110514	MW032	Water	11/05/2014	14:15	X	X	X	X	X	X	
DUP-1-110514	MW010	Water	11/05/2014	-	X	X	X	X	X	X	
MW-68-110514	MW068	Water	11/05/2014	15:25	X	X	X	X	X	X	
MW-94-110514	MW094	Water	11/05/2014	16:15	X	X	X	X	X	X	MS/MSD
TRIP BLANK	Trip Blank	Water	11/05/2014	-	X	X	X	X	X	X	Trip Blank
496758-001											
MW-60-110614	MW060	Water	11/06/2014	09:20	X	X	X	X	X	X	MS/MSD
MW-31-110614	MW031	Water	11/06/2014	11:00	X	X	X	X	X	X	
MW-95-110614	MW095	Water	11/06/2014	13:35	X	X	X	X	X	X	
MW-30-110614	MW030	Water	11/06/2014	14:15	X	X	X	X	X	X	
MW-58-110614	MW058	Water	11/06/2014	15:00	X	X	X	X	X	X	MS/MSD
MW-24-110614	MW024	Water	11/06/2014	15:55	X	X	X	X	X	X	
DUP-2-110614	MW058	Water	11/06/2014	-	X	X	X	X	X	X	
TRIP BLANK	Trip Blank	Water	11/06/2014	-	X	X	X	X	X	X	
496800-001											
MW-24A-110714	MW024A	Water	11/07/2014	08:05	X	X	X	X	X	X	MS/MSD
MW-13-110714	MW013	Water	11/07/2014	09:05	X	X	X	X	X	X	
MW-13A-110714	MW013A	Water	11/07/2014	09:40	X	X	X	X	X	X	
MW-61-110714	MW061	Water	11/07/2014	10:20	X	X	X	X	X	X	
MW-23-110714	MW023	Water	11/07/2014	11:15	X	X	X	X	X	X	MS/MSD
MW-23A-110714	MW023A	Water	11/07/2014	12:00	X	X	X	X	X	X	
Trip Blank	Trip Blank	Water	11/07/2014	-	X	X	X	X	X	X	

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters							Comments	
					Chloride	Metals, Dissolved (Arsenic, Chromium, Iron, Manganese)	TDS	Chromium VI (hexavalent)	TPH	BTEX			
496899-001													
MW-59-111014	MW059	Water	11/10/2014	09:30	X	X	X	X	X	X	MS/MSD		
MW-70-111014	MW070	Water	11/10/2014	10:20	X	X	X	X	X	X			
MW-15A-111014	MW015A	Water	11/10/2014	11:15	X	X	X	X	X	X			
MW-40A-111014	MW040A	Water	11/10/2014	12:15	X	X	X	X	X	X			
LORD-WW-111014	LordWW	Water	11/10/2014	13:15	X	X	X	X	X	X			
MW-62A-111014	MW062A	Water	11/10/2014	14:40	X	X	X	X	X	X			
MW-63A-111014	MW063A	Water	11/10/2014	09:30	X	X	X	X	X	X			
DUP-3-111014	MW063A	Water	11/10/2014	-	X	X	X	X	X	X			
TRIP BLANK	Trip Blank	Water	11/10/2014	-	X	X	X	X	X	X	Duplicate of MW-63A-111014 Trip Blank		
496966-001													
MW-57SA-111114	MW057SA	Water	11/11/2014	09:30	X	X	X	X	X	X	MS/MSD		
MW-74SA-111114	MW074SA	Water	11/11/2014	10:25	X	X	X	X	X	X			
MW-83SA-111114	MW083SA	Water	11/11/2014	12:00	X	X	X	X	X	X	MS/MSD		
MW-85SA-111114	MW085SA	Water	11/11/2014	12:50	X	X	X	X	X	X			
MW-84SA-111114	MW084SA	Water	11/11/2014	13:45	X	X	X	X	X	X			
MW-76SA-111114	MW076SA	Water	11/11/2014	15:15	X	X	X	X	X	X			
MW-75SA-111114	MW075SA	Water	11/11/2014	15:55	X	X	X	X	X	X			
TRIP BLANK	Trip Blank	Water	11/11/2014	-	X	X	X	X	X	X			
497047-001													
MW-71SA-111214	MW071SA	Water	11/12/2014	09:50	X	X	X	X	X	X		MS/MSD	
MW-86SA-111214	MW086SA	Water	11/12/2014	11:20	X	X	X	X	X	X			
MW-65SA-111214	MW065SA	Water	11/12/2014	12:35	X	X	X	X	X	X	Duplicate of MW-73SA-111214 Trip Blank		
MW-72SA-111214	MW072SA	Water	11/12/2014	14:30	X	X	X	X	X	X			
MW-66SA-111214	MW066SA	Water	11/12/2014	14:00	X	X	X	X	X	X			
MW-73SA-111214	MW073SA	Water	11/12/2014	15:20	X	X	X	X	X	X			
DUP-4-111214	MW073SA	Water	11/12/2014	-	X	X	X	X	X	X			
TRIP BLANK	Trip Blank	Water	11/12/2014	-	X	X	X	X	X	X			
MW-55SA-111214	MW055SA	Water	11/12/2014	16:05	X	X	X	X	X	X			

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters						Comments
					Chloride	Metals, Dissolved (Arsenic, Chromium, Iron, Manganese)	TDS	Chromium VI (hexavalent)	TPH	BTEX	
497123-001											
MW-16A-111314	MW016A	Water	11/13/2014	09:20	X	X	X	X	X	X	MS/MSD
MW-79SA-111314	MW079SA	Water	11/13/2014	10:25	X	X	X	X	X	X	
MW-67SA-111314	MW067SA	Water	11/13/2014	11:50	X	X	X	X	X	X	
MW-78SA-111314	MW078SA	Water	11/13/2014	12:40	X	X	X	X	X	X	
MW-21A-111314	MW021A	Water	11/13/2014	14:45	X	X	X	X	X	X	
MW-56SA-111314	MW056SA	Water	11/13/2014	16:10	X	X	X	X	X	X	Trip Blank
TRIP BLANK	Trip Blank	Water	11/13/2014	-	X	X	X	X	X	X	
497192-001											
MW-53SA-111414	MW053SA	Water	11/14/2014	09:50	X	X	X	X	X	X	MS/MSD
MW-54SA-111414	MW054SA	Water	11/14/2014	11:20	X	X	X	X	X	X	
MW-48SA-111414	MW048SA	Water	11/14/2014	12:10	X	X	X	X	X	X	
WOODELL-WW-111414	WoodellWW	Water	11/14/2014	13:05	X	X	X	X	X	X	Duplicate of MW-54SA-111414
DUP-5-111414	MW054SA	Water	11/14/2014	-	X	X	X	X	X	X	
TRIP BLANK	Trip Blank	Water	11/14/2014	-	X	X	X	X	X	X	

Notes:

- TDS - Total dissolved solids
 TPH - Total petroleum hydrocarbons
 BTEX - Benzene, toluene, ethylbenzene, and xylenes

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Location Name</i>		<i>MW010</i>	<i>MW010</i>	<i>MW013</i>	<i>MW014</i>	<i>MW015</i>	<i>MW018</i>	<i>MW020</i>
<i>Sample Name:</i>		<i>MW-10-110514</i>	<i>DUP-1-110514</i>	<i>MW-13-110714</i>	<i>MW-14-110514</i>	<i>MW-15-110414</i>	<i>MW-18-110414</i>	<i>MW-20-110414</i>
<i>Sample Date:</i>		<i>11/5/2014</i>	<i>11/5/2014</i>	<i>11/7/2014</i>	<i>11/5/2014</i>	<i>11/4/2014</i>	<i>11/4/2014</i>	<i>11/4/2014</i>
<i>Sample Type:</i>			<i>(Duplicate)</i>					
<i>Parameters</i>	<i>Units</i>							
<i>Metals</i>								
Arsenic (dissolved)	mg/L	0.0166 J	0.00674 J	<0.00550	0.0183 J	0.00581 J	<0.00550	<0.00550
Chromium (dissolved)	mg/L	0.0168	0.0154	0.224	0.00926 J	0.00458 J	<0.000811	0.00291 J
Chromium VI (hexavalent)	mg/L	0.0114	0.00870 J	0.192	<0.00500	<0.00500	<0.00500	<0.00500
Iron (dissolved)	mg/L	0.246	<0.0283	<0.0283	<0.0283	<0.0283 J	<0.0283 J	<0.0283 J
Manganese (dissolved)	mg/L	<0.00316	<0.00316	0.00926 J	0.120	<0.00316	<0.00316	<0.00316
<i>Petroleum Products</i>								
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.976	<0.975	<0.976	<0.975	<0.975	<0.976	<0.975
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.976	<0.975	<0.976	<0.975	<0.975	<0.976	<0.975
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.976	<0.975	<0.976	<0.975	<0.975	<0.976	<0.975
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.976	<0.975	<0.976	<0.975	<0.975	<0.976	<0.975
<i>Volatile Organic Compounds</i>								
Benzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
Ethylbenzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>								
Chloride	mg/L	1990	1490	420	1890	438	149	670
Total dissolved solids (TDS)	mg/L	4510	4460	2460	3900	2020	1080	2470

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Location Name</i>		<i>MW023</i>	<i>MW024</i>	<i>MW026</i>	<i>MW027</i>	<i>MW030</i>	<i>MW031</i>	<i>MW032</i>
<i>Sample Name:</i>		<i>MW-23-110714</i>	<i>MW-24-110614</i>	<i>MW-26-110514</i>	<i>MW-27-110514</i>	<i>MW-30-110614</i>	<i>MW-31-110614</i>	<i>MW-32-110514</i>
<i>Sample Date:</i>		<i>11/7/2014</i>	<i>11/6/2014</i>	<i>11/5/2014</i>	<i>11/5/2014</i>	<i>11/6/2014</i>	<i>11/6/2014</i>	<i>11/5/2014</i>
<i>Sample Type:</i>								
<i>Parameters</i>	<i>Units</i>							
<i>Metals</i>								
Arsenic (dissolved)	mg/L	0.0223	0.00744 J	0.0149 J	<0.00550	0.0105 J	<0.00550	<0.00550
Chromium (dissolved)	mg/L	1.14	0.123	0.0120	0.0100 J	0.00148 J	0.00296 J	0.00150 J
Chromium VI (hexavalent)	mg/L	0.968	0.105	0.00770 J	0.00620 J	<0.00500	<0.00500	<0.00500
Iron (dissolved)	mg/L	<0.324	<0.0283 J	<0.0283	<0.0283	<0.0283 J	<0.0283 J	<0.0283
Manganese (dissolved)	mg/L	0.0291	0.0132 J	<0.00316	<0.00316	0.00360 J	0.0254	0.00963 J
<i>Petroleum Products</i>								
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.975	<0.975	<0.976	<0.975	<0.976	<0.975	<0.975
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.975	<0.975	<0.976	<0.975	<0.976	<0.975	<0.975
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.975	<0.975	<0.976	<0.975	<0.976	<0.975	<0.975
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.975	<0.975	<0.976	<0.975	<0.976	<0.975	<0.975
<i>Volatile Organic Compounds</i>								
Benzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
Ethylbenzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>								
Chloride	mg/L	776	625	572	386	91.5	96.8	221
Total dissolved solids (TDS)	mg/L	3850	2530	2760	1840	446	1160	1150

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Location Name</i>		<i>MW058</i>	<i>MW058</i>	<i>MW059</i>	<i>MW060</i>	<i>MW061</i>	<i>MW068</i>	<i>MW070</i>
<i>Sample Name:</i>		<i>MW-58-110614</i>	<i>DUP-2-110614</i>	<i>MW-59-111014</i>	<i>MW-60-110614</i>	<i>MW-61-110714</i>	<i>MW-68-110514</i>	<i>MW-70-111014</i>
<i>Sample Date:</i>		<i>11/6/2014</i>	<i>11/6/2014</i>	<i>11/10/2014</i>	<i>11/6/2014</i>	<i>11/7/2014</i>	<i>11/5/2014</i>	<i>11/10/2014</i>
<i>Sample Type:</i>			<i>(Duplicate)</i>					
<i>Parameters</i>	<i>Units</i>							
<i>Metals</i>								
Arsenic (dissolved)	mg/L	0.0182 J	0.0171 J	0.0231	0.0181 J	<0.00550	0.00864 J	0.0143 J
Chromium (dissolved)	mg/L	0.00907 J	0.00873 J	0.00574 J	0.00379 J	0.171	<0.000811	<0.000811
Chromium VI (hexavalent)	mg/L	0.00690 J	0.00570 J	0.00600 J	<0.00500	0.137	<0.00500	<0.00500
Iron (dissolved)	mg/L	<0.0283 J	<0.0283 J	<0.0283	<0.0283 J	<0.0283	<0.0283	<0.0283
Manganese (dissolved)	mg/L	<0.00316	<0.00316	<0.00316	5.20	0.0712	0.243	0.00449 J
<i>Petroleum Products</i>								
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.975	<0.975	<0.976	<0.976	<0.975	<0.975	<0.976
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.975	<0.975	<0.976	<0.976	<0.975	<0.975	<0.976
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.975	<0.975	<0.976	<0.976	<0.975	<0.975	<0.976
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.975	<0.975	<0.976	<0.976	<0.975	<0.975	<0.976
<i>Volatile Organic Compounds</i>								
Benzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
Ethylbenzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>								
Chloride	mg/L	157	85.3	110	1270	213	705	162
Total dissolved solids (TDS)	mg/L	781	921	653	4520	1560 J	1840	825

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Location Name</i>		<i>MW094</i>	<i>MW095</i>	<i>MW013A</i>	<i>MW014A</i>	<i>MW015A</i>	<i>MW016A</i>	<i>MW019A</i>
<i>Sample Name:</i>		<i>MW-94-110514</i>	<i>MW-95-110614</i>	<i>MW-13A-110714</i>	<i>MW-14A-110514</i>	<i>MW-15A-111014</i>	<i>MW-16A-111314</i>	<i>MW-19A-110414</i>
<i>Sample Date:</i>		<i>11/5/2014</i>	<i>11/6/2014</i>	<i>11/7/2014</i>	<i>11/5/2014</i>	<i>11/10/2014</i>	<i>11/13/2014</i>	<i>11/4/2014</i>
<i>Sample Type:</i>								
<i>Parameters</i>	<i>Units</i>							
<i>Metals</i>								
Arsenic (dissolved)	mg/L	0.0219	0.0513	0.0289	<0.00550	0.00704 J	<0.00550	<0.00550
Chromium (dissolved)	mg/L	0.00213 J	3.92	0.00295 J	<0.000811	0.0109	0.000983 J	0.000878 J
Chromium VI (hexavalent)	mg/L	<0.00500	3.67	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Iron (dissolved)	mg/L	<0.0283	<0.0283 J	<0.0283	0.101 J	<0.0283	<0.0283	<0.0283 J
Manganese (dissolved)	mg/L	<0.00316	0.0905	<0.00316	<0.00316	0.0143 J	<0.00316	<0.00316
<i>Petroleum Products</i>								
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.976	<0.975	<0.975	<0.975	<0.975	<0.976	<0.975
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.976	<0.975	<0.975	<0.975	<0.975	<0.976	<0.975
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.976	<0.975	<0.975	<0.975	<0.975	<0.976	<0.975
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.976	<0.975	<0.975	<0.975	<0.975	<0.976	<0.975
<i>Volatile Organic Compounds</i>								
Benzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
Ethylbenzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>								
Chloride	mg/L	126	1330	65.2	11.6	892	262	222
Total dissolved solids (TDS)	mg/L	980	4950	598	129	2550	1010	1020

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Location Name</i>		<i>MW020A</i>	<i>MW021A</i>	<i>MW023A</i>	<i>MW024A</i>	<i>MW040A</i>	<i>MW048SA</i>	<i>MW053SA</i>
<i>Sample Name:</i>		<i>MW-20A-110414</i>	<i>MW-21A-111314</i>	<i>MW-23A-110714</i>	<i>MW-24A-110714</i>	<i>MW-40A-111014</i>	<i>MW-48SA-111414</i>	<i>MW-53SA-111414</i>
<i>Sample Date:</i>		<i>11/4/2014</i>	<i>11/13/2014</i>	<i>11/7/2014</i>	<i>11/7/2014</i>	<i>11/10/2014</i>	<i>11/14/2014</i>	<i>11/14/2014</i>
<i>Sample Type:</i>								
<i>Parameters</i>	<i>Units</i>							
<i>Metals</i>								
Arsenic (dissolved)	mg/L	<0.00550	0.0139 J	0.00758 J	<0.00550	0.0181 J	0.0162 J	0.0167 J
Chromium (dissolved)	mg/L	0.0173	0.00655 J	0.00472 J	0.0816	0.00225 J	0.492	<0.000811
Chromium VI (hexavalent)	mg/L	0.00960 J	<0.00500	<0.00500	0.0665	<0.00500	0.469	<0.00500
Iron (dissolved)	mg/L	<0.0283 J	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283
Manganese (dissolved)	mg/L	0.0150 J	<0.00316	<0.00316	0.00379 J	<0.00316	<0.00316	<0.00316
<i>Petroleum Products</i>								
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.975	<0.975	<0.975	<0.975	<0.975	<0.976	<0.975
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.975	<0.975	<0.975	<0.975	<0.975	<0.976	<0.975
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.975	<0.975	<0.975	<0.975	<0.975	<0.976	<0.975
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.975	<0.975	<0.975	<0.975	<0.975	<0.976	<0.975
<i>Volatile Organic Compounds</i>								
Benzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
Ethylbenzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>								
Chloride	mg/L	441	2280	50.4	279	52.9	560	310
Total dissolved solids (TDS)	mg/L	1680	5570	688	1120	575	2500	1330

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Location Name</i>		<i>MW054SA</i>	<i>MW054SA</i>	<i>MW055SA</i>	<i>MW056SA</i>	<i>MW057SA</i>	<i>MW062A</i>	<i>MW063A</i>
<i>Sample Name:</i>		<i>MW-54SA-111414</i>	<i>DUP-5-111414</i>	<i>MW-55SA-111214</i>	<i>MW-56SA-111314</i>	<i>MW-57SA-111114</i>	<i>MW-62A-111014</i>	<i>MW-63A-111014</i>
<i>Sample Date:</i>		<i>11/14/2014</i>	<i>11/14/2014</i>	<i>11/12/2014</i>	<i>11/13/2014</i>	<i>11/11/2014</i>	<i>11/10/2014</i>	<i>11/10/2014</i>
<i>Sample Type:</i>			<i>(Duplicate)</i>					
<i>Parameters</i>	<i>Units</i>							
<i>Metals</i>								
Arsenic (dissolved)	mg/L	0.0199 J	0.0170 J	0.0109 J	0.0227	0.0127 J	0.0253	0.0199 J
Chromium (dissolved)	mg/L	0.149	0.146	0.159	0.336	0.00119 J	0.000903 J	<0.000811
Chromium VI (hexavalent)	mg/L	0.141	0.142	0.166	0.343	<0.00500	<0.00500	<0.00500
Iron (dissolved)	mg/L	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283
Manganese (dissolved)	mg/L	<0.00316	<0.00316	0.00502 J	<0.00316	<0.00316	<0.00316	<0.00316
<i>Petroleum Products</i>								
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.975	<0.975	<0.976	<0.975	<0.975	<0.975	<0.975
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.975	<0.975	<0.976	<0.975	<0.975	<0.975	<0.975
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.975	<0.975	<0.976	<0.975	<0.975	<0.975	<0.975
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.975	<0.975	<0.976	<0.975	<0.975	<0.975	<0.975
<i>Volatile Organic Compounds</i>								
Benzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
Ethylbenzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>								
Chloride	mg/L	773	755	557	1120	77.5	60.3	53.1
Total dissolved solids (TDS)	mg/L	2900	2870	2010	3820	722	476	463

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Location Name</i>		<i>MW063A</i>	<i>MW065SA</i>	<i>MW066SA</i>	<i>MW067SA</i>	<i>MW071SA</i>	<i>MW072SA</i>	<i>MW073SA</i>
<i>Sample Name:</i>		<i>DUP-3-111014</i>	<i>MW-65SA-111214</i>	<i>MW-66SA-111214</i>	<i>MW-67SA-111314</i>	<i>MW-71SA-111214</i>	<i>MW-72SA-111214</i>	<i>MW-73SA-111214</i>
<i>Sample Date:</i>		<i>11/10/2014</i>	<i>11/12/2014</i>	<i>11/12/2014</i>	<i>11/13/2014</i>	<i>11/12/2014</i>	<i>11/12/2014</i>	<i>11/12/2014</i>
<i>Sample Type:</i>		<i>(Duplicate)</i>						
<i>Parameters</i>	<i>Units</i>							
<i>Metals</i>								
Arsenic (dissolved)	mg/L	0.0148 J	0.0208	0.0110 J	0.0165 J	0.0125 J	0.0220	0.0190 J
Chromium (dissolved)	mg/L	<0.000811	0.0739	<0.000811	<0.000811	0.00368 J	<0.000811	<0.000811
Chromium VI (hexavalent)	mg/L	<0.00500	0.0743	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Iron (dissolved)	mg/L	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283
Manganese (dissolved)	mg/L	<0.00316	0.00853 J	0.883	<0.00316	<0.00316	<0.00316	0.00434 J
<i>Petroleum Products</i>								
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.976	<0.975	<0.975	<0.975	<0.976	<0.975	<0.975
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.976	<0.975	<0.975	<0.975	<0.976	<0.975	<0.975
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.976	<0.975	<0.975	<0.975	<0.976	<0.975	<0.975
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.976	<0.975	<0.975	<0.975	<0.976	<0.975	<0.975
<i>Volatile Organic Compounds</i>								
Benzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
Ethylbenzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>								
Chloride	mg/L	53.6	939	1250	214	103	232	299
Total dissolved solids (TDS)	mg/L	489	3190	3990	994	725	1090	1140

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Location Name</i>		<i>MW073SA</i>	<i>MW074SA</i>	<i>MW075SA</i>	<i>MW076SA</i>	<i>MW078SA</i>	<i>MW079SA</i>
<i>Sample Name:</i>		<i>DUP-4-111214</i>	<i>MW-74SA-111114</i>	<i>MW-75SA-111114</i>	<i>MW-76SA-111114</i>	<i>MW-78SA-111314</i>	<i>MW-79SA-111314</i>
<i>Sample Date:</i>		<i>11/12/2014</i>	<i>11/11/2014</i>	<i>11/11/2014</i>	<i>11/11/2014</i>	<i>11/13/2014</i>	<i>11/13/2014</i>
<i>Sample Type:</i>		<i>(Duplicate)</i>					
<i>Parameters</i>	<i>Units</i>						
<i>Metals</i>							
Arsenic (dissolved)	mg/L	0.0119 J	0.00628 J	0.0148 J	0.0105 J	0.0227	0.0189 J
Chromium (dissolved)	mg/L	<0.000811	0.00908 J	0.00369 J	0.00312 J	<0.000811	0.00100 J
Chromium VI (hexavalent)	mg/L	<0.00500	0.0104	<0.00500	<0.00500	<0.00500	<0.00500
Iron (dissolved)	mg/L	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283
Manganese (dissolved)	mg/L	<0.00316	<0.00316	0.00954 J	<0.00316	<0.00316	<0.00316
<i>Petroleum Products</i>							
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.975	<0.976	<0.975	<0.975	<0.975	<0.975
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.975	<0.976	<0.975	<0.975	<0.975	<0.975
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.975	<0.976	<0.975	<0.975	<0.975	<0.975
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.975	<0.976	<0.975	<0.975	<0.975	<0.975
<i>Volatile Organic Compounds</i>							
Benzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
Ethylbenzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>							
Chloride	mg/L	297	450	400	365	155	365
Total dissolved solids (TDS)	mg/L	1140	2100	2050	2110	840	1430

TABLE 2

**ANALYTICAL RESULTS SUMMARY
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Location Name</i>		<i>MW083SA</i>	<i>MW084SA</i>	<i>MW085SA</i>	<i>MW086SA</i>	<i>LordWW</i>	<i>WoodellWW</i>
<i>Sample Name:</i>		<i>MW-83SA-111114</i>	<i>MW-84SA-111114</i>	<i>MW-85SA-111114</i>	<i>MW-86SA-111214</i>	<i>LORD-WW-111014</i>	<i>WOODELL-WW-111414</i>
<i>Sample Date:</i>		<i>11/11/2014</i>	<i>11/11/2014</i>	<i>11/11/2014</i>	<i>11/12/2014</i>	<i>11/10/2014</i>	<i>11/14/2014</i>
<i>Sample Type:</i>							
<i>Parameters</i>	<i>Units</i>						
<i>Metals</i>							
Arsenic (dissolved)	mg/L	<0.00550	<0.00550	0.0127 J	0.0178 J	<0.00550	0.0168 J
Chromium (dissolved)	mg/L	0.00185 J	0.0240	<0.000811	<0.000811	<0.000811	0.0967
Chromium VI (hexavalent)	mg/L	<0.00500	0.0218	<0.00500	<0.00500	<0.00500	0.0638
Iron (dissolved)	mg/L	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283	<0.0283
Manganese (dissolved)	mg/L	0.142	<0.00316	0.499	0.00433 J	0.147	<0.00316
<i>Petroleum Products</i>							
Total Petroleum Hydrocarbons (>C10-C28)	mg/L	<0.975	<0.976	<0.976	<0.975	<0.975	<0.975
Total Petroleum Hydrocarbons (>C28-C35)	mg/L	<0.975	<0.976	<0.976	<0.975	<0.975	<0.975
Total Petroleum Hydrocarbons (C6-C12)	mg/L	<0.975	<0.976	<0.976	<0.975	<0.975	<0.975
Total Petroleum Hydrocarbons (C6-C35)	mg/L	<0.975	<0.976	<0.976	<0.975	<0.975	<0.975
<i>Volatile Organic Compounds</i>							
Benzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
Ethylbenzene	mg/L	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800	<0.000800
m&p-Xylenes	mg/L	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140	<0.00140
o-Xylene	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Toluene	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
Total BTEX	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
Xylenes (total)	mg/L	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700	<0.000700
<i>General Chemistry</i>							
Chloride	mg/L	709	975	596	514	1870	558
Total dissolved solids (TDS)	mg/L	2830	3100	2670	1660	2780	2120

Notes:

J - Estimated concentration

TABLE 3

ANALYTICAL METHODS AND HOLDING TIME CRITERIA

GROUNDWATER SAMPLING EVENT

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE

EUNICE, NEW MEXICO

NOVEMBER 2014

<i>Parameter</i>	<i>Method</i> ¹	<i>Matrix</i>	<i>Holding Time Collection to Analysis (Days)</i>
Chloride	300/300.1	Water	28
TDS	SM 2540C	Water	7
Metals	SW-846 6010B	Water	180
Chromium VI (hexavalent)	SW-846 7196A	Water	1
TPH	SW-846 8015	Water	14
BTEX	SW-846 8021	Water	14

Notes:

- SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- SM - "Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992, with subsequent revisions
- ¹ - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
- TDS - Total dissolved solids
- TPH - Total petroleum hydrocarbons
- BTEX - Benzene, toluene, ethylbenzene, and xylenes

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014

<i>Parameter</i>	<i>Analyte</i>	<i>Analysis Date</i>	<i>Blank Result *</i>	<i>Sample ID</i>	<i>Original Result</i>	<i>Qualified Result</i>	<i>Units</i>
Metals	Iron (dissolved)	11/14/2014	0.0791	MW-23-110714	0.0324	<0.324 U	mg/L

Notes:

- * - Blank result adjusted for sample factors where applicable
- U - Not detected at the associated reporting limit

TABLE 5

**QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Parameter</i>	<i>Sample ID</i>	<i>Analyte</i>	<i>MS</i>	<i>MSD</i>	<i>RPD</i>	<i>Control Limits</i>		<i>Qualified Result</i>	<i>Units</i>
			<i>% Recovery</i>	<i>% Recovery</i>	<i>(percent)</i>	<i>% Recovery</i>	<i>RPD</i>		
Metals	MW-20-110414	Iron (dissolved)	67	69	2	75-125	20	<0.0283 UJ	mg/L
	MW-18-110414					75-125	20	<0.0283 UJ	mg/L
	MW-19A-110414					75-125	20	<0.0283 UJ	mg/L
	MW-15-110414					75-125	20	<0.0283 UJ	mg/L
	MW-20A-110414					75-125	20	<0.0283 UJ	mg/L
	MW-60-110614	Iron (dissolved)	67	71	6	75-125	20	<0.0283 UJ	mg/L
	MW-24-110614					75-125	20	<0.0283 UJ	mg/L
	MW-30-110614					75-125	20	<0.0283 UJ	mg/L
	MW-31-110614					75-125	20	<0.0283 UJ	mg/L
	MW-58-110614					75-125	20	<0.0283 UJ	mg/L
	DUP-2-110614					75-125	20	<0.0283 UJ	mg/L
	MW-95-110614					75-125	20	<0.0283 UJ	mg/L

Notes:

- MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
UJ - Not detected; associated reporting limit is estimated

TABLE 6

**QUALIFIED SAMPLE DATA DUE TO OUTLYING LABORATORY DUPLICATE RESULTS
GROUNDWATER SAMPLING EVENT
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY (CEMC) - NORTH EUNICE
EUNICE, NEW MEXICO
NOVEMBER 2014**

<i>Parameter</i>	<i>Sample ID</i>	<i>Analyte</i>	<i>RPD (percent)</i>	<i>RPD Control Limit (percent)</i>	<i>Associated Sample IDs</i>	<i>Qualified Result</i>	<i>Units</i>
Wet Chemistry	MW-61-110714	Total Dissolved Solids (TDS)	11	10	MW-13-110714	2460 J	mg/L
					MW-13A-110714	598 J	mg/L
					MW-23-110714	3850 J	mg/L
					MW-23A-110714	688 J	mg/L
					MW-24A-110714	1120 J	mg/L
					MW-61-110714	1560 J	mg/L

Notes:

RPD - Relative Percent Difference

J - Estimated concentration

Analytical Report 496589

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

14-NOV-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



14-NOV-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **496589**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 496589. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 496589 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-20-110414	W	11-04-14 09:40		496589-001
MW-20A-110414	W	11-04-14 10:30		496589-002
MW-19A-110414	W	11-04-14 12:05		496589-003
MW-18-110414	W	11-04-14 13:40		496589-004
MW-15-110414	W	11-04-14 15:05		496589-005



CASE NARRATIVE



Client Name: Conestoga Rovers & Associates

Project Name: N. Eunice/Eunice

Project ID: 073018

Work Order Number(s): 496589

Report Date: 14-NOV-14

Date Received: 11/04/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-955356 Dissolved Metals per ICP by SW846 6010B

Iron recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 496589-001.

The Laboratory Control Sample for Iron is within laboratory Control Limits



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-20-110414**

Matrix: Water

Sample Depth:

Lab Sample Id: 496589-001

Date Collected: 11.04.14 09.40

Date Received: 11.04.14 17.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 07.25

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	670	50.0	1.40	mg/L	11.07.14 07:25		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955083

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2470	5.00	5.00	mg/L	11.10.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 08:08	U	1
Chromium	7440-47-3	0.00291	0.0100	0.000811	mg/L	11.14.14 08:08	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 08:08	UX	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 08:08	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955098

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.04.14 17:55	U	1



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-20-110414**

Matrix: Water

Sample Depth:

Lab Sample Id: 496589-001

Date Collected: 11.04.14 09.40

Date Received: 11.04.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954687

Date Prep: 11.05.14 10.00

Prep seq: 664020

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.05.14 15:04	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.05.14 15:04	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.05.14 15:04	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.05.14 15:04	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	127	70 - 135	%		
o-Terphenyl	125	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954702

Date Prep: 11.05.14 08.00

Prep seq: 664029

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.05.14 12:41	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.05.14 12:41	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.05.14 12:41	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.05.14 12:41	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.05.14 12:41	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.05.14 12:41	U	
Total BTEX		ND		0.000700	mg/L	11.05.14 12:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	103	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-20A-110414**

Matrix: Water

Sample Depth:

Lab Sample Id: 496589-002

Date Collected: 11.04.14 10.30

Date Received: 11.04.14 17.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 07.48

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	441	50.0	1.40	mg/L	11.07.14 07:48		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955083

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1680	5.00	5.00	mg/L	11.10.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 08:27	U	1
Chromium	7440-47-3	0.0173	0.0100	0.000811	mg/L	11.14.14 08:27		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 08:27	U	1
Manganese	7439-96-5	0.0150	0.0200	0.00316	mg/L	11.14.14 08:27	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955098

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00960	0.0100	0.00500	mg/L	11.04.14 17:55	J	1



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-20A-110414**

Matrix: Water

Sample Depth:

Lab Sample Id: 496589-002

Date Collected: 11.04.14 10.30

Date Received: 11.04.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954687

Date Prep: 11.05.14 10.00

Prep seq: 664020

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.05.14 15:26	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.05.14 15:26	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.05.14 15:26	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.05.14 15:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	124	70 - 135	%		
o-Terphenyl	120	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954702

Date Prep: 11.05.14 08.00

Prep seq: 664029

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.05.14 12:58	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.05.14 12:58	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.05.14 12:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.05.14 12:58	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.05.14 12:58	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.05.14 12:58	U	
Total BTEX		ND		0.000700	mg/L	11.05.14 12:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	80 - 120	%		
4-Bromofluorobenzene	90	80 - 120	%		



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-19A-110414**

Matrix: Water

Sample Depth:

Lab Sample Id: 496589-003

Date Collected: 11.04.14 12.05

Date Received: 11.04.14 17.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 08.10

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	222	20.0	0.560	mg/L	11.07.14 08:10		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955083

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1020	5.00	5.00	mg/L	11.10.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 08:34	U	1
Chromium	7440-47-3	0.000878	0.0100	0.000811	mg/L	11.14.14 08:34	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 08:34	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 08:34	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955098

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.04.14 17:55	U	1



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-19A-110414**

Matrix: Water

Sample Depth:

Lab Sample Id: 496589-003

Date Collected: 11.04.14 12.05

Date Received: 11.04.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954687

Date Prep: 11.05.14 10.00

Prep seq: 664020

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.05.14 15:46	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.05.14 15:46	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.05.14 15:46	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.05.14 15:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	99	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954702

Date Prep: 11.05.14 08.00

Prep seq: 664029

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.05.14 13:14	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.05.14 13:14	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.05.14 13:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.05.14 13:14	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.05.14 13:14	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.05.14 13:14	U	
Total BTEX		ND		0.000700	mg/L	11.05.14 13:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	102	80 - 120	%		
4-Bromofluorobenzene	87	80 - 120	%		



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-18-110414**

Matrix: Water

Sample Depth:

Lab Sample Id: 496589-004

Date Collected: 11.04.14 13.40

Date Received: 11.04.14 17.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 08.33

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	149	20.0	0.560	mg/L	11.07.14 08:33		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955083

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1080	5.00	5.00	mg/L	11.10.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 09:07	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.14.14 09:07	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 09:07	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 09:07	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955098

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.04.14 17:55	U	1



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-18-110414**

Matrix: Water

Sample Depth:

Lab Sample Id: 496589-004

Date Collected: 11.04.14 13.40

Date Received: 11.04.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954687

Date Prep: 11.05.14 10.00

Prep seq: 664020

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.05.14 16:08	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.05.14 16:08	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.05.14 16:08	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.05.14 16:08	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	116	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954702

Date Prep: 11.05.14 08.00

Prep seq: 664029

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.05.14 13:30	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.05.14 13:30	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.05.14 13:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.05.14 13:30	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.05.14 13:30	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.05.14 13:30	U	
Total BTEX		ND		0.000700	mg/L	11.05.14 13:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	103	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-15-110414**

Matrix: Water

Sample Depth:

Lab Sample Id: 496589-005

Date Collected: 11.04.14 15.05

Date Received: 11.04.14 17.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 08.56

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	438	50.0	1.40	mg/L	11.07.14 08:56		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955083

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2020	5.00	5.00	mg/L	11.10.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00581	0.0200	0.00550	mg/L	11.14.14 09:13	J	1
Chromium	7440-47-3	0.00458	0.0100	0.000811	mg/L	11.14.14 09:13	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 09:13	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 09:13	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955098

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.04.14 17:55	U	1



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-15-110414**

Matrix: Water

Sample Depth:

Lab Sample Id: 496589-005

Date Collected: 11.04.14 15.05

Date Received: 11.04.14 17.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954687

Date Prep: 11.05.14 10.00

Prep seq: 664020

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.05.14 16:30	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.05.14 16:30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.05.14 16:30	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.05.14 16:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	130	70 - 135	%		
o-Terphenyl	125	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954702

Date Prep: 11.05.14 08.00

Prep seq: 664029

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.05.14 13:46	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.05.14 13:46	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.05.14 13:46	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.05.14 13:46	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.05.14 13:46	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.05.14 13:46	U	
Total BTEX		ND		0.000700	mg/L	11.05.14 13:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	105	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664020-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664020-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954687

Date Prep: 11.05.14 10.00

Prep seq: 664020

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.50	0.988	mg/L	11.05.14 11:49	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.50	0.988	mg/L	11.05.14 11:49	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.50	0.988	mg/L	11.05.14 11:49	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	126	70 - 135	%		
o-Terphenyl	127	70 - 135	%		

Sample Id: 664029-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664029-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954702

Date Prep: 11.05.14 08.00

Prep seq: 664029

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.05.14 10:00	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.05.14 10:00	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.05.14 10:00	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.05.14 10:00	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.05.14 10:00	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	102	80 - 120	%		
4-Bromofluorobenzene	86	80 - 120	%		



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **664104-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 664104-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 02.53

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.07.14 02:53	U	1

Sample Id: **664196-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 664196-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 07:49	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.14.14 07:49	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 07:49	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 07:49	U	1

Sample Id: **955083-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 955083-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955083

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	11.10.14 12:00	U	1



Certificate of Analytical Results

496589



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **955098-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 955098-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955098

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.04.14 17:55	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496589,

Project ID: 073018

Lab Batch #: 954702

Sample: 664029-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/05/14 10:00		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0306	0.0300	102	80-120
4-Bromofluorobenzene		0.0258	0.0300	86	80-120

Lab Batch #: 954702

Sample: 664029-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/05/14 10:16		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0311	0.0300	104	80-120
4-Bromofluorobenzene		0.0292	0.0300	97	80-120

Lab Batch #: 954702

Sample: 664029-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/05/14 10:32		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0318	0.0300	106	80-120
4-Bromofluorobenzene		0.0290	0.0300	97	80-120

Lab Batch #: 954702

Sample: 496395-021 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/05/14 10:48		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0340	0.0300	113	80-120
4-Bromofluorobenzene		0.0309	0.0300	103	80-120

Lab Batch #: 954702

Sample: 496395-021 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/05/14 11:05		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0357	0.0300	119	80-120
4-Bromofluorobenzene		0.0320	0.0300	107	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496589,

Project ID: 073018

Lab Batch #: 954687

Sample: 664020-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/05/14 11:49		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.6	10.0	126	70-135
o-Terphenyl		6.37	5.00	127	70-135

Lab Batch #: 954687

Sample: 664020-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/05/14 12:10		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.4	10.0	124	70-135
o-Terphenyl		3.71	5.00	74	70-135

Lab Batch #: 954687

Sample: 664020-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/05/14 12:31		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.3	10.0	123	70-135
o-Terphenyl		4.14	5.00	83	70-135

Lab Batch #: 954687

Sample: 496355-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/05/14 13:37		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.8	9.87	130	70-135
o-Terphenyl		4.57	4.94	93	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 496589

Project ID:

073018

Lab Batch #: 955098

Sample: 955098-1-BKS

Matrix: Water

Date Analyzed: 11/04/2014

Date Prepared: 11/04/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0405	101	80-120	

Lab Batch #: 955083

Sample: 955083-1-BKS

Matrix: Water

Date Analyzed: 11/10/2014

Date Prepared: 11/10/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Total dissolved solids	<5.00	1000	956	96	80-120	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 496589

Project ID: 073018

Analyst: ARM

Date Prepared: 11/05/2014

Date Analyzed: 11/05/2014

Lab Batch ID: 954702

Sample: 664029-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0893	89	0.100	0.0883	88	1	70-125	25	
Toluene	<0.00100	0.100	0.0939	94	0.100	0.0924	92	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0961	96	0.100	0.0944	94	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.197	99	0.200	0.194	97	2	70-131	25	
o-Xylene	<0.000700	0.100	0.0927	93	0.100	0.0909	91	2	71-133	25	

Analyst: DAB

Date Prepared: 11/10/2014

Date Analyzed: 11/14/2014

Lab Batch ID: 955356

Sample: 664196-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.08	108	1.00	1.08	108	0	80-120	20	
Chromium	<0.000811	1.00	1.07	107	1.00	1.07	107	0	80-120	20	
Iron	<0.0283	5.00	5.37	107	5.00	5.51	110	3	80-120	20	
Manganese	<0.00316	1.00	1.04	104	1.00	1.05	105	1	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 496589

Project ID: 073018

Analyst: JUM

Date Prepared: 11/07/2014

Date Analyzed: 11/07/2014

Lab Batch ID: 954851

Sample: 664104-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	26.1	104	25.0	27.3	109	4	90-110	20	

Analyst: ARM

Date Prepared: 11/05/2014

Date Analyzed: 11/05/2014

Lab Batch ID: 954687

Sample: 664020-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.988	100	98.8	99	100	112	112	13	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.988	100	115	115	100	117	117	2	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Work Order #: 496589

Lab Batch #: 954851

Date Analyzed: 11/07/2014

QC- Sample ID: 496466-001 S

Reporting Units: mg/L

Date Prepared: 11/07/2014

Batch #: 1

Project ID: 073018

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	59700	50000	116000	113	80-120	

Lab Batch #: 954851

Date Analyzed: 11/07/2014

QC- Sample ID: 496589-005 S

Reporting Units: mg/L

Date Prepared: 11/07/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	438	1250	1750	105	80-120	

Lab Batch #: 954687

Date Analyzed: 11/05/2014

QC- Sample ID: 496355-001 S

Reporting Units: mg/L

Date Prepared: 11/05/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	120	122	70-135	
C12-C28 Diesel Range Hydrocarbons	7.88	98.7	123	117	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 496589

Project ID: 073018

Lab Batch ID: 954702

QC- Sample ID: 496395-021 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/05/2014

Date Prepared: 11/05/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	0.0281	0.100	0.112	84	0.100	0.115	87	3	70-125	25	
Toluene	<0.00100	0.100	0.0992	99	0.100	0.100	100	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.102	102	0.100	0.102	102	0	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.209	105	0.200	0.210	105	0	70-131	25	
o-Xylene	<0.000700	0.100	0.0992	99	0.100	0.101	101	2	71-133	25	

Lab Batch ID: 955098

QC- Sample ID: 496589-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/04/2014

Date Prepared: 11/04/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	<0.00500	0.200	0.205	103	0.200	0.204	102	0	80-120	20	

Lab Batch ID: 955356

QC- Sample ID: 496589-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/14/2014

Date Prepared: 11/10/2014

Analyst: DAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.00550	1.00	1.12	112	1.00	1.14	114	2	75-125	20	
Chromium	0.00291	1.00	1.21	121	1.00	1.22	122	1	75-125	20	
Iron	<0.0283	5.00	3.36	67	5.00	3.44	69	2	75-125	20	X
Manganese	<0.00316	1.00	1.01	101	1.00	0.999	100	1	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 496589

Lab Batch #: 955083

Project ID: 073018

Date Analyzed: 11/10/2014 12:00

Date Prepared: 11/10/2014

Analyst: JUM

QC- Sample ID: 496686-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	237	222	7	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



CHAIN OF CUSTODY

Page 1 of 1

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Dallas, Texas (214-902-0300)

Service Center - San Antonio, Texas (210-509-3334)

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Odessa, Texas (432-563-1800)

Norcross, Georgia (770-449-8800)

Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes			
Company Name / Branch: <u>CPA / Midco</u>				Project Name/Number: <u>073018</u>											
Company Address: <u>2135 Sloop Rd Midco, TX</u>				Project Location: <u>Enclave, TX</u>											
Email: <u>mw@midco.com</u> Phone No: <u>432-686-0080</u>				Invoice To: <u>Enclave, TX</u>											
Project Contact: <u>Mike Winkler</u>				PO Number: <u></u>											
Sampler's Name: <u>Justin Nixon</u>															
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	CI	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	MW-20-110414		11-4-14	940	W	6	X								X BTX 80218
2	MW-20A-110414														X TPA GAO SW 8015 MW
3	MW-19A-110414														X total neta's EPA 6010B
4	MW-18-110414														X Hex chrom SW 7196A
5	MW-15-110414														X Chlorides E300.0
6															X TDS SW 2540C
7															
8															
9															
10															
Turnaround Time (Business days) <u></u> Data Deliverable Information <u></u> Notes: <u></u>															
TAT Starts Day received by Lab, if received by 3:00 pm															
TAT ☐ Same Day TAT ☐ 5 Day TAT ☐ Level II Std QC ☐ Level IV (Full Data Pkg /raw data)															
☐ Next Day EMERGENCY ☐ 7 Day TAT ☐ Level III Std QC+ Forms ☐ TRRP Level IV															
☐ 2 Day EMERGENCY ☒ Contract TAT ☐ Level 3 (CLP Forms) ☐ UST / RG -411															
☐ 3 Day EMERGENCY ☐ TRRP Checklist															
TAT Starts Day received by Lab, if received by 3:00 pm															
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY															
FED-EX / UPS: Tracking # <u></u>															
Relinquished by Sampler: <u></u> Date Time: <u>11-4-14 16:15</u> Received By: <u>Justin Nixon</u> Date Time: <u>11-4-14 16:15</u>															
Relinquished by: <u>Justin Nixon</u> Date Time: <u>11-4-14 16:15</u> Received By: <u>Justin Nixon</u> Date Time: <u>11-4-14 16:15</u>															
Relinquished by: <u>Justin Nixon</u> Date Time: <u>11-4-14 16:15</u> Received By: <u>Justin Nixon</u> Date Time: <u>11-4-14 16:15</u>															
Custody Seal # <u>4</u> Preserved where applicable ☒ On Ice ☒ Cooler Temp. <u>4.0°C</u> Thermo. Corr. Factor <u></u>															



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 11/04/2014 05:45:00 PM

Work Order #: 496589

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/05/2014

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/05/2014

Analytical Report 496676

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

14-NOV-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



14-NOV-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **496676**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 496676. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 496676 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

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Sample Cross Reference 496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-10-110514	W	11-05-14 10:10		496676-001
MW-14-110514	W	11-05-14 11:05		496676-002
MW-14A-110514	W	11-05-14 12:00		496676-003
MW-26-110514	W	11-05-14 12:40		496676-004
MW-27-110514	W	11-05-14 13:15		496676-005
MW-32-110514	W	11-05-14 14:15		496676-006
DUP-1-110514	W	11-05-14 00:00		496676-007
MW-68-110514	W	11-05-14 15:25		496676-008
MW-94-110514	W	11-05-14 16:15		496676-009
TRIP BLANK	W	11-05-14 00:00		496676-010



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 496676

Report Date: 14-NOV-14
Date Received: 11/05/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Samples taken on New Mexico time. Time entered in LIMS is Texas time

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-955356 Dissolved Metals per ICP by SW846 6010B
SW6010B

Batch 955356,

Iron detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Samples affected are: 496676-009, -003, -006, -004, -007, -008, -001, -002, -005.



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-10-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-001

Date Collected: 11.05.14 10.10

Date Received: 11.05.14 16.35

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 15.31

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1990	100	2.80	mg/L	11.07.14 15:31		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955217

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4510	5.00	5.00	mg/L	11.11.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0166	0.0200	0.00550	mg/L	11.14.14 09:20	J	1
Chromium	7440-47-3	0.0168	0.0100	0.000811	mg/L	11.14.14 09:20		1
Iron	7439-89-6	0.246	0.200	0.0283	mg/L	11.14.14 09:20		1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 09:20	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955121

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0114	0.0100	0.00500	mg/L	11.06.14 09:50		1



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-10-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-001

Date Collected: 11.05.14 10.10

Date Received: 11.05.14 16.35

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954779

Date Prep: 11.06.14 14.00

Prep seq: 664079

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.06.14 20:57	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.06.14 20:57	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.06.14 20:57	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.06.14 20:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 18:41	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 18:41	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 18:41	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 18:41	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 18:41	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.06.14 18:41	U	
Total BTEX		ND		0.000700	mg/L	11.06.14 18:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-14-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-002

Date Collected: 11.05.14 11.05

Date Received: 11.05.14 16.35

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 15.54

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1890	100	2.80	mg/L	11.07.14 15:54		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955217

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3900	5.00	5.00	mg/L	11.11.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0183	0.0200	0.00550	mg/L	11.14.14 09:26	J	1
Chromium	7440-47-3	0.00926	0.0100	0.000811	mg/L	11.14.14 09:26	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 09:26	U	1
Manganese	7439-96-5	0.120	0.0200	0.00316	mg/L	11.14.14 09:26		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955121

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.06.14 09:50	U	1



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-14-110514

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-002

Date Collected: 11.05.14 11.05

Date Received: 11.05.14 16.35

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954779

Date Prep: 11.06.14 14.00

Prep seq: 664079

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.06.14 21:20	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.06.14 21:20	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.06.14 21:20	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.06.14 21:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	93	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 18:57	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 18:57	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 18:57	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 18:57	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 18:57	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.06.14 18:57	U	
Total BTEX		ND		0.000700	mg/L	11.06.14 18:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	87	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-14A-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-003

Date Collected: 11.05.14 12.00

Date Received: 11.05.14 16.35

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 16.16

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	11.6	1.00	0.0280	mg/L	11.07.14 16:16		1

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955217

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	129	5.00	5.00	mg/L	11.11.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 09:33	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.14.14 09:33	U	1
Iron	7439-89-6	0.101	0.200	0.0283	mg/L	11.14.14 09:33	J	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 09:33	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955121

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.06.14 09:50	U	1



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-14A-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-003

Date Collected: 11.05.14 12.00

Date Received: 11.05.14 16.35

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954779

Date Prep: 11.06.14 14.00

Prep seq: 664079

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.06.14 21:42	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.06.14 21:42	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.06.14 21:42	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.06.14 21:42	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 19:13	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 19:13	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 19:13	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 19:13	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 19:13	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.06.14 19:13	U	
Total BTEX		ND		0.000700	mg/L	11.06.14 19:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	105	80 - 120	%		
4-Bromofluorobenzene	91	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-26-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-004

Date Collected: 11.05.14 12.40

Date Received: 11.05.14 16.35

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 16.39

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	572	50.0	1.40	mg/L	11.07.14 16:39		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955217

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2760	5.00	5.00	mg/L	11.11.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0149	0.0200	0.00550	mg/L	11.14.14 09:40	J	1
Chromium	7440-47-3	0.0120	0.0100	0.000811	mg/L	11.14.14 09:40		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 09:40	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 09:40	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955121

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00770	0.0100	0.00500	mg/L	11.06.14 09:50	J	1



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-26-110514

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-004

Date Collected: 11.05.14 12.40

Date Received: 11.05.14 16.35

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954779

Date Prep: 11.06.14 14.00

Prep seq: 664079

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.06.14 22:03	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.06.14 22:03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.06.14 22:03	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.06.14 22:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	89	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 19:30	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 19:30	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 19:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 19:30	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 19:30	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.06.14 19:30	U	
Total BTEX		ND		0.000700	mg/L	11.06.14 19:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	105	80 - 120	%		
4-Bromofluorobenzene	91	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-27-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-005

Date Collected: 11.05.14 13.15

Date Received: 11.05.14 16.35

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 17.02

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	386	50.0	1.40	mg/L	11.07.14 17:02		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955217

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1840	5.00	5.00	mg/L	11.11.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 09:46	U	1
Chromium	7440-47-3	0.0100	0.0100	0.000811	mg/L	11.14.14 09:46	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 09:46	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 09:46	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955121

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00620	0.0100	0.00500	mg/L	11.06.14 09:50	J	1



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-27-110514

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-005

Date Collected: 11.05.14 13.15

Date Received: 11.05.14 16.35

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954779

Date Prep: 11.06.14 14.00

Prep seq: 664079

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.06.14 22:26	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.06.14 22:26	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.06.14 22:26	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.06.14 22:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 19:46	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 19:46	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 19:46	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 19:46	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 19:46	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.06.14 19:46	U	
Total BTEX		ND		0.000700	mg/L	11.06.14 19:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-32-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-006

Date Collected: 11.05.14 14.15

Date Received: 11.05.14 16.35

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 17.24

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	221	20.0	0.560	mg/L	11.07.14 17:24		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955217

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1150	5.00	5.00	mg/L	11.11.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 09:53	U	1
Chromium	7440-47-3	0.00150	0.0100	0.000811	mg/L	11.14.14 09:53	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 09:53	U	1
Manganese	7439-96-5	0.00963	0.0200	0.00316	mg/L	11.14.14 09:53	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955121

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.06.14 09:50	U	1



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-32-110514

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-006

Date Collected: 11.05.14 14.15

Date Received: 11.05.14 16.35

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954779

Date Prep: 11.06.14 14.00

Prep seq: 664079

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.06.14 22:47	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.06.14 22:47	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.06.14 22:47	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.06.14 22:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 20:02	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 20:02	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 20:02	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 20:02	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 20:02	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.06.14 20:02	U	
Total BTEX		ND		0.000700	mg/L	11.06.14 20:02	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-1-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-007

Date Collected: 11.05.14 00.00

Date Received: 11.05.14 16.35

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 17.47

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1490	100	2.80	mg/L	11.07.14 17:47		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955217

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4460	5.00	5.00	mg/L	11.11.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00674	0.0200	0.00550	mg/L	11.14.14 09:59	J	1
Chromium	7440-47-3	0.0154	0.0100	0.000811	mg/L	11.14.14 09:59		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 09:59	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 09:59	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955121

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00870	0.0100	0.00500	mg/L	11.06.14 09:50	J	1



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-1-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-007

Date Collected: 11.05.14 00.00

Date Received: 11.05.14 16.35

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954779

Date Prep: 11.06.14 14.00

Prep seq: 664079

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.06.14 23:09	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.06.14 23:09	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.06.14 23:09	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.06.14 23:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	87	70 - 135	%		
o-Terphenyl	97	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 20:18	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 20:18	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 20:18	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 20:18	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 20:18	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.06.14 20:18	U	
Total BTEX		ND		0.000700	mg/L	11.06.14 20:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	80 - 120	%		
4-Bromofluorobenzene	90	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-68-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-008

Date Collected: 11.05.14 15.25

Date Received: 11.05.14 16.35

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 18.10

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	705	50.0	1.40	mg/L	11.07.14 18:10		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955217

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1840	5.00	5.00	mg/L	11.11.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00864	0.0200	0.00550	mg/L	11.14.14 10:06	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.14.14 10:06	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 10:06	U	1
Manganese	7439-96-5	0.243	0.0200	0.00316	mg/L	11.14.14 10:06		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955121

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.06.14 09:50	U	1



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-68-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-008

Date Collected: 11.05.14 15.25

Date Received: 11.05.14 16.35

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954779

Date Prep: 11.06.14 14.00

Prep seq: 664079

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.06.14 23:31	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.06.14 23:31	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.06.14 23:31	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.06.14 23:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	99	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 20:35	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 20:35	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 20:35	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 20:35	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 20:35	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.06.14 20:35	U	
Total BTEX		ND		0.000700	mg/L	11.06.14 20:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	106	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-94-110514**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-009

Date Collected: 11.05.14 16.15

Date Received: 11.05.14 16.35

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955079

Date Prep: 11.10.14 15.55

Prep seq: 664197

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	126	10.0	0.280	mg/L	11.10.14 15:55		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955217

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	980	5.00	5.00	mg/L	11.11.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Subcontractor: SUB: E871002

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0219	0.0200	0.00550	mg/L	11.14.14 02:41		1
Chromium	7440-47-3	0.00213	0.0100	0.000811	mg/L	11.14.14 02:41	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 02:41	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 02:41	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955121

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.06.14 09:50	U	1



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-94-110514

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-009

Date Collected: 11.05.14 16.15

Date Received: 11.05.14 16.35

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954779

Date Prep: 11.06.14 14.00

Prep seq: 664079

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.06.14 23:53	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.06.14 23:53	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.06.14 23:53	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.06.14 23:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	91	70 - 135	%		
o-Terphenyl	98	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 20:51	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 20:51	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 20:51	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 20:51	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 20:51	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.06.14 20:51	U	
Total BTEX		ND		0.000700	mg/L	11.06.14 20:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 496676-010

Date Collected: 11.05.14 00.00

Date Received: 11.05.14 16.35

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 21:06	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 21:06	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 21:06	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 21:06	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 21:06	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.06.14 21:06	U	
Total BTEX		ND		0.000700	mg/L	11.06.14 21:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664079-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664079-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954779

Date Prep: 11.06.14 14.00

Prep seq: 664079

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.50	0.988	mg/L	11.06.14 19:07	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.50	0.988	mg/L	11.06.14 19:07	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.50	0.988	mg/L	11.06.14 19:07	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	113	70 - 135	%		

Sample Id: 664081-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664081-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954781

Date Prep: 11.06.14 14.00

Prep seq: 664081

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.06.14 16:47	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.06.14 16:47	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.06.14 16:47	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.06.14 16:47	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.06.14 16:47	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	103	80 - 120	%		
4-Bromofluorobenzene	90	80 - 120	%		



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **664104-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 664104-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 954851

Date Prep: 11.07.14 02.53

Prep seq: 664104

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.07.14 02:53	U	1

Sample Id: **664196-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 664196-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955356

Date Prep: 11.10.14 13.20

Prep seq: 664196

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 07:49	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.14.14 07:49	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 07:49	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 07:49	U	1

Sample Id: **664197-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 664197-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955079

Date Prep: 11.10.14 14.24

Prep seq: 664197

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.10.14 14:24	U	1



Certificate of Analytical Results

496676



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 955121-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955121-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955121

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.06.14 09:50	U	1

Sample Id: 955217-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955217-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955217

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	11.11.14 12:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496676,

Project ID: 073018

Lab Batch #: 954781

Sample: 664081-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/06/14 16:47		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0309	0.0300	103	80-120
4-Bromofluorobenzene		0.0270	0.0300	90	80-120

Lab Batch #: 954781

Sample: 664081-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/06/14 17:03		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0319	0.0300	106	80-120
4-Bromofluorobenzene		0.0301	0.0300	100	80-120

Lab Batch #: 954781

Sample: 664081-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/06/14 17:20		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0314	0.0300	105	80-120
4-Bromofluorobenzene		0.0294	0.0300	98	80-120

Lab Batch #: 954781

Sample: 496636-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/06/14 17:36		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0319	0.0300	106	80-120
4-Bromofluorobenzene		0.0305	0.0300	102	80-120

Lab Batch #: 954781

Sample: 496636-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/06/14 17:52		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0324	0.0300	108	80-120
4-Bromofluorobenzene		0.0304	0.0300	101	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496676,

Project ID: 073018

Lab Batch #: 954779

Sample: 664079-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/06/14 19:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.5	10.0	105	70-135	
o-Terphenyl	5.64	5.00	113	70-135	

Lab Batch #: 954779

Sample: 664079-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/06/14 19:29

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.9	10.0	119	70-135	
o-Terphenyl	3.64	5.00	73	70-135	

Lab Batch #: 954779

Sample: 664079-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/06/14 19:51

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.6	10.0	116	70-135	
o-Terphenyl	3.60	5.00	72	70-135	

Lab Batch #: 954779

Sample: 496636-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/06/14 20:36

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.4	9.87	105	70-135	
o-Terphenyl	5.75	4.94	116	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 496676

Project ID:

073018

Lab Batch #: 955121

Sample: 955121-1-BKS

Matrix: Water

Date Analyzed: 11/06/2014

Date Prepared: 11/06/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0405	101	80-120	

Lab Batch #: 955217

Sample: 955217-1-BKS

Matrix: Water

Date Analyzed: 11/11/2014

Date Prepared: 11/11/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Total dissolved solids	<5.00	1000	963	96	80-120	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 496676

Project ID: 073018

Analyst: ARM

Date Prepared: 11/06/2014

Date Analyzed: 11/06/2014

Lab Batch ID: 954781

Sample: 664081-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0915	92	0.100	0.0932	93	2	70-125	25	
Toluene	<0.00100	0.100	0.0959	96	0.100	0.0973	97	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0976	98	0.100	0.0987	99	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.200	100	0.200	0.203	102	1	70-131	25	
o-Xylene	<0.000700	0.100	0.0947	95	0.100	0.0959	96	1	71-133	25	

Analyst: DAB

Date Prepared: 11/10/2014

Date Analyzed: 11/14/2014

Lab Batch ID: 955356

Sample: 664196-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.08	108	1.00	1.08	108	0	80-120	20	
Chromium	<0.000811	1.00	1.07	107	1.00	1.07	107	0	80-120	20	
Iron	<0.0283	5.00	5.37	107	5.00	5.51	110	3	80-120	20	
Manganese	<0.00316	1.00	1.04	104	1.00	1.05	105	1	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 496676

Project ID: 073018

Analyst: JUM

Date Prepared: 11/07/2014

Date Analyzed: 11/07/2014

Lab Batch ID: 954851

Sample: 664104-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	26.1	104	25.0	27.3	109	4	90-110	20	

Analyst: JUM

Date Prepared: 11/10/2014

Date Analyzed: 11/10/2014

Lab Batch ID: 955079

Sample: 664197-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	22.8	91	25.0	22.6	90	1	90-110	20	

Analyst: ARM

Date Prepared: 11/06/2014

Date Analyzed: 11/06/2014

Lab Batch ID: 954779

Sample: 664079-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.988	100	91.6	92	100	88.6	89	3	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.988	100	104	104	100	102	102	2	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Work Order #: 496676

Lab Batch #: 954851

Date Analyzed: 11/07/2014

QC- Sample ID: 496466-001 S

Reporting Units: mg/L

Date Prepared: 11/07/2014

Batch #: 1

Project ID: 073018

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	59700	50000	116000	113	80-120	

Lab Batch #: 954851

Date Analyzed: 11/07/2014

QC- Sample ID: 496589-005 S

Reporting Units: mg/L

Date Prepared: 11/07/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	438	1250	1750	105	80-120	

Lab Batch #: 955079

Date Analyzed: 11/10/2014

QC- Sample ID: 496676-009 S

Reporting Units: mg/L

Date Prepared: 11/10/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	126	250	372	98	80-120	

Lab Batch #: 954779

Date Analyzed: 11/06/2014

QC- Sample ID: 496636-001 S

Reporting Units: mg/L

Date Prepared: 11/06/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	86.4	88	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	92.4	94	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 496676

Project ID: 073018

Lab Batch ID: 954781

QC- Sample ID: 496636-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/06/2014

Date Prepared: 11/06/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0896	90	0.100	0.0926	93	3	70-125	25	
Toluene	<0.00100	0.100	0.0935	94	0.100	0.0963	96	3	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0954	95	0.100	0.0975	98	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.196	98	0.200	0.201	101	3	70-131	25	
o-Xylene	<0.000700	0.100	0.0925	93	0.100	0.0958	96	4	71-133	25	

Lab Batch ID: 955121

QC- Sample ID: 496676-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/06/2014

Date Prepared: 11/06/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.0114	0.200	0.214	101	0.200	0.219	104	2	80-120	20	

Lab Batch ID: 955356

QC- Sample ID: 496589-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/14/2014

Date Prepared: 11/10/2014

Analyst: DAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.12	112	1.00	1.14	114	2	75-125	20	
Chromium	0.00291	1.00	1.21	121	1.00	1.22	122	1	75-125	20	
Iron	<0.0283	5.00	3.36	67	5.00	3.44	69	2	75-125	20	X
Manganese	<0.00316	1.00	1.01	101	1.00	0.999	100	1	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 496676

Lab Batch #: 955217

Project ID: 073018

Date Analyzed: 11/11/2014 12:00

Date Prepared: 11/11/2014

Analyst: JUM

QC- Sample ID: 496676-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	4510	4420	2	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 11/05/2014 04:35:00 PM

Work Order #: 496676

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/06/2014

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/06/2014

Analytical Report 496758

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

17-NOV-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



17-NOV-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **496758**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 496758. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 496758 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-60-110614	W	11-06-14 09:20		496758-001
MW-31-110614	W	11-06-14 11:00		496758-002
MW-95-110614	W	11-06-14 13:35		496758-003
MW-30-110614	W	11-06-14 14:15		496758-004
MW-58-110614	W	11-06-14 15:00		496758-005
MW-24-110614	W	11-06-14 15:55		496758-006
DUP-2-110614	W	11-06-14 00:00		496758-007
TRIP BLANK	W	11-06-14 00:00		496758-008

Client Name: Conestoga Rovers & Associates**Project Name: N. Eunice/Eunice**Project ID: 073018
Work Order Number(s): 496758Report Date: 17-NOV-14
Date Received: 11/06/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Samples taken on New Mexico time. Time entered in LIMS is Texas time

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-955355 Dissolved Metals per ICP by SW846 6010B

Iron detected in the blank below the MQL but above the SDL; possible laboratory contamination. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples affected are: 496758-001, -002, -004, -007, -003, -006, -005.

Iron recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 496758-001.

The Laboratory Control Sample for Iron is within laboratory Control Limits



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-60-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-001

Date Collected: 11.06.14 09.20

Date Received: 11.06.14 16.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955216

Date Prep: 11.11.14 20.00

Prep seq: 664290

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1270	100	2.80	mg/L	11.11.14 20:00		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4520	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0181	0.0200	0.00550	mg/L	11.14.14 05:32	J	1
Chromium	7440-47-3	0.00379	0.0100	0.000811	mg/L	11.14.14 05:32	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 05:32	UX	1
Manganese	7439-96-5	5.20	0.0200	0.00316	mg/L	11.14.14 05:32		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955260

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.06.14 18:15	U	1



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-60-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-001

Date Collected: 11.06.14 09.20

Date Received: 11.06.14 16.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954931

Date Prep: 11.07.14 14.00

Prep seq: 664180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.07.14 18:09	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.07.14 18:09	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.07.14 18:09	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.07.14 18:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954927

Date Prep: 11.07.14 14.00

Prep seq: 664179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.07.14 22:23	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.07.14 22:23	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.07.14 22:23	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.07.14 22:23	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.07.14 22:23	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.07.14 22:23	U	
Total BTEX		ND		0.000700	mg/L	11.07.14 22:23	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-31-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-002

Date Collected: 11.06.14 11.00

Date Received: 11.06.14 16.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955216

Date Prep: 11.11.14 20.23

Prep seq: 664290

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	96.8	10.0	0.280	mg/L	11.11.14 20:23		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1160	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 05:51	U	1
Chromium	7440-47-3	0.00296	0.0100	0.000811	mg/L	11.14.14 05:51	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 05:51	U	1
Manganese	7439-96-5	0.0254	0.0200	0.00316	mg/L	11.14.14 05:51		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955260

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.06.14 18:15	U	1



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-31-110614

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-002

Date Collected: 11.06.14 11.00

Date Received: 11.06.14 16.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954931

Date Prep: 11.07.14 14.00

Prep seq: 664180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.07.14 18:56	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.07.14 18:56	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.07.14 18:56	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.07.14 18:56	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954927

Date Prep: 11.07.14 14.00

Prep seq: 664179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.07.14 22:39	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.07.14 22:39	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.07.14 22:39	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.07.14 22:39	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.07.14 22:39	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.07.14 22:39	U	
Total BTEX		ND		0.000700	mg/L	11.07.14 22:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-95-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-003

Date Collected: 11.06.14 13.35

Date Received: 11.06.14 16.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955216

Date Prep: 11.11.14 20.46

Prep seq: 664290

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1330	100	2.80	mg/L	11.11.14 20:46		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	4950	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0513	0.0200	0.00550	mg/L	11.14.14 05:58		1
Chromium	7440-47-3	3.92	0.0100	0.000811	mg/L	11.14.14 05:58		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 05:58	U	1
Manganese	7439-96-5	0.0905	0.0200	0.00316	mg/L	11.14.14 05:58		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955260

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	3.67	0.100	0.0500	mg/L	11.06.14 18:15		10



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-95-110614

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-003

Date Collected: 11.06.14 13.35

Date Received: 11.06.14 16.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954931

Date Prep: 11.07.14 14.00

Prep seq: 664180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.07.14 19:17	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.07.14 19:17	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.07.14 19:17	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.07.14 19:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954927

Date Prep: 11.07.14 14.00

Prep seq: 664179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.07.14 22:56	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.07.14 22:56	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.07.14 22:56	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.07.14 22:56	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.07.14 22:56	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.07.14 22:56	U	
Total BTEX		ND		0.000700	mg/L	11.07.14 22:56	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-30-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-004

Date Collected: 11.06.14 14.15

Date Received: 11.06.14 16.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 11.17

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	91.5	10.0	0.280	mg/L	11.12.14 11:17		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	446	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0105	0.0200	0.00550	mg/L	11.14.14 06:30	J	1
Chromium	7440-47-3	0.00148	0.0100	0.000811	mg/L	11.14.14 06:30	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 06:30	U	1
Manganese	7439-96-5	0.00360	0.0200	0.00316	mg/L	11.14.14 06:30	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955260

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.06.14 18:15	U	1



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-30-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-004

Date Collected: 11.06.14 14.15

Date Received: 11.06.14 16.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954931

Date Prep: 11.07.14 14.00

Prep seq: 664180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.07.14 19:41	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.07.14 19:41	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.07.14 19:41	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.07.14 19:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	85	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954927

Date Prep: 11.07.14 14.00

Prep seq: 664179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.07.14 23:12	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.07.14 23:12	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.07.14 23:12	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.07.14 23:12	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.07.14 23:12	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.07.14 23:12	U	
Total BTEX		ND		0.000700	mg/L	11.07.14 23:12	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	106	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-58-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-005

Date Collected: 11.06.14 15.00

Date Received: 11.06.14 16.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 12.02

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	157	10.0	0.280	mg/L	11.12.14 12:02		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	781	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0182	0.0200	0.00550	mg/L	11.14.14 06:37	J	1
Chromium	7440-47-3	0.00907	0.0100	0.000811	mg/L	11.14.14 06:37	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 06:37	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 06:37	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955260

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00690	0.0100	0.00500	mg/L	11.06.14 18:15	J	1



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-58-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-005

Date Collected: 11.06.14 15.00

Date Received: 11.06.14 16.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954931

Date Prep: 11.07.14 14.00

Prep seq: 664180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.07.14 20:06	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.07.14 20:06	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.07.14 20:06	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.07.14 20:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	88	70 - 135	%		
o-Terphenyl	93	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954927

Date Prep: 11.07.14 14.00

Prep seq: 664179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.07.14 23:28	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.07.14 23:28	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.07.14 23:28	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.07.14 23:28	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.07.14 23:28	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.07.14 23:28	U	
Total BTEX		ND		0.000700	mg/L	11.07.14 23:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	105	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-24-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-006

Date Collected: 11.06.14 15.55

Date Received: 11.06.14 16.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 12.25

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	625	50.0	1.40	mg/L	11.12.14 12:25		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2530	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00744	0.0200	0.00550	mg/L	11.14.14 06:43	J	1
Chromium	7440-47-3	0.123	0.0100	0.000811	mg/L	11.14.14 06:43		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 06:43	U	1
Manganese	7439-96-5	0.0132	0.0200	0.00316	mg/L	11.14.14 06:43	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955260

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.105	0.0100	0.00500	mg/L	11.06.14 18:15		1



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-24-110614

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-006

Date Collected: 11.06.14 15.55

Date Received: 11.06.14 16.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954931

Date Prep: 11.07.14 14.00

Prep seq: 664180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.07.14 20:29	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.07.14 20:29	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.07.14 20:29	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.07.14 20:29	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	85	70 - 135	%		
o-Terphenyl	92	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954927

Date Prep: 11.07.14 14.00

Prep seq: 664179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.07.14 23:44	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.07.14 23:44	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.07.14 23:44	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.07.14 23:44	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.07.14 23:44	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.07.14 23:44	U	
Total BTEX		ND		0.000700	mg/L	11.07.14 23:44	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	107	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-2-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-007

Date Collected: 11.06.14 00.00

Date Received: 11.06.14 16.45

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 12.48

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	85.3	10.0	0.280	mg/L	11.12.14 12:48		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	921	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0171	0.0200	0.00550	mg/L	11.14.14 06:50	J	1
Chromium	7440-47-3	0.00873	0.0100	0.000811	mg/L	11.14.14 06:50	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 06:50	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 06:50	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955260

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00570	0.0100	0.00500	mg/L	11.06.14 18:15	J	1



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-2-110614**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-007

Date Collected: 11.06.14 00.00

Date Received: 11.06.14 16.45

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954931

Date Prep: 11.07.14 14.00

Prep seq: 664180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.07.14 20:54	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.07.14 20:54	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.07.14 20:54	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.07.14 20:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954927

Date Prep: 11.07.14 14.00

Prep seq: 664179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.08.14 00:00	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.08.14 00:00	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.08.14 00:00	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.08.14 00:00	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.08.14 00:00	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.08.14 00:00	U	
Total BTEX		ND		0.000700	mg/L	11.08.14 00:00	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	104	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 496758-008

Date Collected: 11.06.14 00.00

Date Received: 11.06.14 16.45

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954927

Date Prep: 11.07.14 14.00

Prep seq: 664179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.08.14 00:16	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.08.14 00:16	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.08.14 00:16	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.08.14 00:16	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.08.14 00:16	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.08.14 00:16	U	
Total BTEX		ND		0.000700	mg/L	11.08.14 00:16	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	105	80 - 120	%		
4-Bromofluorobenzene	90	80 - 120	%		



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664179-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664179-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954927

Date Prep: 11.07.14 14.00

Prep seq: 664179

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.07.14 20:46	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.07.14 20:46	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.07.14 20:46	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.07.14 20:46	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.07.14 20:46	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	102	80 - 120	%		
4-Bromofluorobenzene	85	80 - 120	%		

Sample Id: 664180-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664180-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954931

Date Prep: 11.07.14 14.00

Prep seq: 664180

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.50	0.988	mg/L	11.07.14 17:07	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.50	0.988	mg/L	11.07.14 17:07	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.50	0.988	mg/L	11.07.14 17:07	U	1
Total TPH	PHC635	ND		0.988	mg/L	11.07.14 17:07	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	118	70 - 135	%		

Certificate of Analytical Results

496758

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664290-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 664290-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: JUM	% Moist:	Tech: JUM
Seq Number: 955216	Date Prep: 11.11.14 12.48	
	Prep seq: 664290	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.11.14 12:48	U	1

Sample Id: 664292-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 664292-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: JUM	% Moist:	Tech: JUM
Seq Number: 955294	Date Prep: 11.12.14 10.09	
	Prep seq: 664292	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.12.14 10:09	U	1

Sample Id: 664345-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 664345-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: DAB	% Moist:	Tech: DAB
Seq Number: 955355	Date Prep: 11.12.14 10.30	
Subcontractor: SUB: E871002	Prep seq: 664345	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 05:12	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.14.14 05:12	U	1
Iron	7439-89-6	0.0791	0.200	0.0283	mg/L	11.14.14 05:12	J	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 05:12	U	1



Certificate of Analytical Results

496758



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 955260-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955260-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955260

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.06.14 18:15	U	1

Sample Id: 955433-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955433-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	11.13.14 17:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496758,

Project ID: 073018

Lab Batch #: 954927

Sample: 664179-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/07/14 20:46		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0306	0.0300	102	80-120
4-Bromofluorobenzene		0.0255	0.0300	85	80-120

Lab Batch #: 954927

Sample: 664179-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/07/14 21:02		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0314	0.0300	105	80-120
4-Bromofluorobenzene		0.0287	0.0300	96	80-120

Lab Batch #: 954927

Sample: 664179-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/07/14 21:19		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0316	0.0300	105	80-120
4-Bromofluorobenzene		0.0288	0.0300	96	80-120

Lab Batch #: 954927

Sample: 496758-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/07/14 21:35		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0324	0.0300	108	80-120
4-Bromofluorobenzene		0.0312	0.0300	104	80-120

Lab Batch #: 954927

Sample: 496758-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/07/14 21:51		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0324	0.0300	108	80-120
4-Bromofluorobenzene		0.0312	0.0300	104	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496758,

Project ID: 073018

Lab Batch #: 954931

Sample: 664180-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/07/14 17:07

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.5	10.0	105	70-135	
o-Terphenyl	5.90	5.00	118	70-135	

Lab Batch #: 954931

Sample: 664180-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/07/14 17:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.0	10.0	110	70-135	
o-Terphenyl	3.79	5.00	76	70-135	

Lab Batch #: 954931

Sample: 664180-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/07/14 17:48

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.6	10.0	116	70-135	
o-Terphenyl	3.88	5.00	78	70-135	

Lab Batch #: 954931

Sample: 496758-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/07/14 18:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	9.65	9.87	98	70-135	
o-Terphenyl	5.75	4.93	117	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 496758

Project ID:

073018

Lab Batch #: 955260

Sample: 955260-1-BKS

Matrix: Water

Date Analyzed: 11/06/2014

Date Prepared: 11/06/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0389	97	80-120	

Lab Batch #: 955433

Sample: 955433-1-BKS

Matrix: Water

Date Analyzed: 11/13/2014

Date Prepared: 11/13/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Total dissolved solids	<5.00	1000	1000	100	80-120	

Blank Spike Recovery [D] = $100 \times [C] / [B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 496758

Project ID: 073018

Analyst: ARM

Date Prepared: 11/07/2014

Date Analyzed: 11/07/2014

Lab Batch ID: 954927

Sample: 664179-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0843	84	0.100	0.0871	87	3	70-125	25	
Toluene	<0.00100	0.100	0.0868	87	0.100	0.0891	89	3	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0875	88	0.100	0.0887	89	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.180	90	0.200	0.182	91	1	70-131	25	
o-Xylene	<0.000700	0.100	0.0852	85	0.100	0.0871	87	2	71-133	25	

Analyst: DAB

Date Prepared: 11/12/2014

Date Analyzed: 11/14/2014

Lab Batch ID: 955355

Sample: 664345-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.05	105	1.00	1.07	107	2	80-120	20	
Chromium	<0.000811	1.00	1.19	119	1.00	1.20	120	1	80-120	20	
Iron	0.0791	5.00	5.26	105	5.00	5.28	106	0	80-120	20	
Manganese	<0.00316	1.00	1.04	104	1.00	1.04	104	0	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 496758

Project ID: 073018

Analyst: JUM

Date Prepared: 11/11/2014

Date Analyzed: 11/11/2014

Lab Batch ID: 955216

Sample: 664290-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	23.6	94	25.0	22.5	90	5	90-110	20	

Analyst: JUM

Date Prepared: 11/12/2014

Date Analyzed: 11/12/2014

Lab Batch ID: 955294

Sample: 664292-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	24.7	99	25.0	23.9	96	3	90-110	20	

Analyst: ARM

Date Prepared: 11/07/2014

Date Analyzed: 11/07/2014

Lab Batch ID: 954931

Sample: 664180-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.988	100	95.3	95	100	98.7	99	4	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.988	100	110	110	100	112	112	2	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Work Order #: 496758

Lab Batch #: 955216

Date Analyzed: 11/11/2014

QC- Sample ID: 496690-007 S

Reporting Units: mg/L

Date Prepared: 11/11/2014

Batch #: 1

Project ID: 073018

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	162	250	446	114	80-120	

Lab Batch #: 955216

Date Analyzed: 11/11/2014

QC- Sample ID: 496690-017 S

Reporting Units: mg/L

Date Prepared: 11/11/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	14700	12500	27600	103	80-120	

Lab Batch #: 955294

Date Analyzed: 11/12/2014

QC- Sample ID: 496758-004 S

Reporting Units: mg/L

Date Prepared: 11/12/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	91.5	250	345	101	80-120	

Lab Batch #: 955294

Date Analyzed: 11/12/2014

QC- Sample ID: 496800-004 S

Reporting Units: mg/L

Date Prepared: 11/12/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	213	500	727	103	80-120	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 496758

Lab Batch #: 954931

Date Analyzed: 11/07/2014

QC- Sample ID: 496758-001 S

Reporting Units: mg/L

Date Prepared: 11/07/2014

Batch #: 1

Project ID: 073018

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	83.0	84	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	93.2	94	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 496758

Project ID: 073018

Lab Batch ID: 954927

QC- Sample ID: 496758-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/07/2014

Date Prepared: 11/07/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.0873	87	0.100	0.0877	88	0	70-125	25	
Toluene	<0.00100	0.100	0.0899	90	0.100	0.0899	90	0	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0903	90	0.100	0.0901	90	0	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.186	93	0.200	0.185	93	1	70-131	25	
o-Xylene	<0.000700	0.100	0.0901	90	0.100	0.0903	90	0	71-133	25	

Lab Batch ID: 955260

QC- Sample ID: 496758-004 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/06/2014

Date Prepared: 11/06/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	<0.00500	0.200	0.203	102	0.200	0.203	102	0	80-120	20	

Lab Batch ID: 955355

QC- Sample ID: 496758-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/14/2014

Date Prepared: 11/12/2014

Analyst: DAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.0181	1.00	1.04	102	1.00	1.10	108	6	75-125	20	
Chromium	0.00379	1.00	1.11	111	1.00	1.18	118	6	75-125	20	
Iron	<0.0283	5.00	3.34	67	5.00	3.56	71	6	75-125	20	X
Manganese	5.20	1.00	6.07	87	1.00	6.34	114	4	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 496758

Lab Batch #: 955433

Project ID: 073018

Date Analyzed: 11/13/2014 17:00

Date Prepared: 11/13/2014

Analyst: JUM

QC- Sample ID: 496758-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	4520	4860	7	10	

Lab Batch #: 955433

Date Analyzed: 11/13/2014 17:00

Date Prepared: 11/13/2014

Analyst: JUM

QC- Sample ID: 496800-004 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1560	1750	11	10	F

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

Tampa, Florida (813-620-2000)

Final 1.000



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 11/06/2014 04:45:00 PM

Work Order #: 496758

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/07/2014

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/07/2014

Analytical Report 496800

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

17-NOV-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



17-NOV-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **496800**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 496800. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 496800 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-24A-110714	W	11-07-14 08:05		496800-001
MW-13-110714	W	11-07-14 09:05		496800-002
MW-13A-110714	W	11-07-14 09:40		496800-003
MW-61-110714	W	11-07-14 10:20		496800-004
MW-23-110714	W	11-07-14 11:15		496800-005
MW-23A-110714	W	11-07-14 12:00		496800-006
Trip Blank	W	11-07-14 00:00		496800-007



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 496800

Report Date: 17-NOV-14
Date Received: 11/07/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Samples taken on New Mexico time. Time entered in LIMS is Texas time

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-955355 Dissolved Metals per ICP by SW846 6010B

Iron detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Samples affected are: 496800-002, -005, -001, -006, -003, -004.



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-24A-110714**

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-001

Date Collected: 11.07.14 08.05

Date Received: 11.07.14 15.05

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 15.04

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	279	10.0	0.280	mg/L	11.12.14 15:04		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1120	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 06:56	U	1
Chromium	7440-47-3	0.0816	0.0100	0.000811	mg/L	11.14.14 06:56		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 06:56	U	1
Manganese	7439-96-5	0.00379	0.0200	0.00316	mg/L	11.14.14 06:56	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955122

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0665	0.0100	0.00500	mg/L	11.07.14 16:05		1



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-24A-110714

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-001

Date Collected: 11.07.14 08.05

Date Received: 11.07.14 15.05

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954986

Date Prep: 11.10.14 00.00

Prep seq: 664220

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.10.14 22:01	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.10.14 22:01	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.10.14 22:01	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.10.14 22:01	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	90	70 - 135	%		
o-Terphenyl	94	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954934

Date Prep: 11.10.14 09.00

Prep seq: 664183

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 21:19	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 21:19	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 21:19	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 21:19	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 21:19	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 21:19	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 21:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-13-110714**

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-002

Date Collected: 11.07.14 09.05

Date Received: 11.07.14 15.05

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 15.27

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	420	50.0	1.40	mg/L	11.12.14 15:27		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2460	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 07:03	U	1
Chromium	7440-47-3	0.224	0.0100	0.000811	mg/L	11.14.14 07:03		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 07:03	U	1
Manganese	7439-96-5	0.00926	0.0200	0.00316	mg/L	11.14.14 07:03	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955122

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.192	0.0100	0.00500	mg/L	11.07.14 16:05		1



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-13-110714

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-002

Date Collected: 11.07.14 09.05

Date Received: 11.07.14 15.05

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954986

Date Prep: 11.10.14 00.00

Prep seq: 664220

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.10.14 22:47	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.10.14 22:47	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.10.14 22:47	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.10.14 22:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	100	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954934

Date Prep: 11.10.14 09.00

Prep seq: 664183

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 09:50	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 09:50	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 09:50	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 09:50	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 09:50	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 09:50	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 09:50	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-13A-110714**

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-003

Date Collected: 11.07.14 09.40

Date Received: 11.07.14 15.05

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 15.49

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	65.2	10.0	0.280	mg/L	11.12.14 15:49		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	598	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0289	0.0200	0.00550	mg/L	11.14.14 07:09		1
Chromium	7440-47-3	0.00295	0.0100	0.000811	mg/L	11.14.14 07:09	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 07:09	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 07:09	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955122

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.07.14 16:05	U	1



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-13A-110714

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-003

Date Collected: 11.07.14 09.40

Date Received: 11.07.14 15.05

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954986

Date Prep: 11.10.14 00.00

Prep seq: 664220

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.10.14 23:11	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.10.14 23:11	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.10.14 23:11	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.10.14 23:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	97	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954934

Date Prep: 11.10.14 09.00

Prep seq: 664183

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 08:45	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 08:45	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 08:45	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 08:45	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 08:45	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 08:45	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 08:45	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-61-110714**

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-004

Date Collected: 11.07.14 10.20

Date Received: 11.07.14 15.05

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 16.12

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	213	20.0	0.560	mg/L	11.12.14 16:12		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1560	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 07:16	U	1
Chromium	7440-47-3	0.171	0.0100	0.000811	mg/L	11.14.14 07:16		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 07:16	U	1
Manganese	7439-96-5	0.0712	0.0200	0.00316	mg/L	11.14.14 07:16		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955122

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.137	0.0100	0.00500	mg/L	11.07.14 16:05		1



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-61-110714

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-004

Date Collected: 11.07.14 10.20

Date Received: 11.07.14 15.05

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954986

Date Prep: 11.10.14 00.00

Prep seq: 664220

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.10.14 23:34	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.10.14 23:34	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.10.14 23:34	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.10.14 23:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954934

Date Prep: 11.10.14 09.00

Prep seq: 664183

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 09:01	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 09:01	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 09:01	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 09:01	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 09:01	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 09:01	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 09:01	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-23-110714**

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-005

Date Collected: 11.07.14 11.15

Date Received: 11.07.14 15.05

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 16.58

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	776	50.0	1.40	mg/L	11.12.14 16:58		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3850	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0223	0.0200	0.00550	mg/L	11.14.14 07:22		1
Chromium	7440-47-3	1.14	0.0100	0.000811	mg/L	11.14.14 07:22		1
Iron	7439-89-6	0.324	0.200	0.0283	mg/L	11.14.14 07:22		1
Manganese	7439-96-5	0.0291	0.0200	0.00316	mg/L	11.14.14 07:22		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955122

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.968	0.0500	0.0250	mg/L	11.07.14 16:05		5



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-23-110714

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-005

Date Collected: 11.07.14 11.15

Date Received: 11.07.14 15.05

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954986

Date Prep: 11.10.14 00.00

Prep seq: 664220

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.10.14 23:57	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.10.14 23:57	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.10.14 23:57	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.10.14 23:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954934

Date Prep: 11.10.14 09.00

Prep seq: 664183

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 09:17	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 09:17	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 09:17	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 09:17	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 09:17	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 09:17	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 09:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	100	80 - 120	%		



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-23A-110714**

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-006

Date Collected: 11.07.14 12.00

Date Received: 11.07.14 15.05

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 17.20

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	50.4	10.0	0.280	mg/L	11.12.14 17:20		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	688	5.00	5.00	mg/L	11.13.14 17:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Subcontractor: SUB: E871002

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00758	0.0200	0.00550	mg/L	11.14.14 07:29	J	1
Chromium	7440-47-3	0.00472	0.0100	0.000811	mg/L	11.14.14 07:29	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.14.14 07:29	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 07:29	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955122

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.07.14 16:05	U	1



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-23A-110714

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-006

Date Collected: 11.07.14 12.00

Date Received: 11.07.14 15.05

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954986

Date Prep: 11.10.14 00.00

Prep seq: 664220

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.11.14 00:20	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.11.14 00:20	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.11.14 00:20	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.11.14 00:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	70 - 135	%		
o-Terphenyl	99	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954934

Date Prep: 11.10.14 09.00

Prep seq: 664183

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 09:33	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 09:33	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 09:33	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 09:33	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 09:33	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 09:33	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 09:33	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **Trip Blank**

Matrix: Water

Sample Depth:

Lab Sample Id: 496800-007

Date Collected: 11.07.14 00.00

Date Received: 11.07.14 15.05

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954934

Date Prep: 11.10.14 09.00

Prep seq: 664183

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 08:29	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 08:29	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 08:29	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 08:29	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 08:29	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 08:29	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 08:29	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664183-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664183-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954934

Date Prep: 11.10.14 09.00

Prep seq: 664183

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.10.14 10:10	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.10.14 10:10	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.10.14 10:10	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.10.14 10:10	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.10.14 10:10	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	82	80 - 120	%		

Sample Id: 664220-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664220-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 954986

Date Prep: 11.10.14 00.00

Prep seq: 664220

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.50	0.988	mg/L	11.10.14 20:54	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.50	0.988	mg/L	11.10.14 20:54	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.50	0.988	mg/L	11.10.14 20:54	U	1
Total TPH	PHC635	ND		0.988	mg/L	11.10.14 20:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	108	70 - 135	%		
o-Terphenyl	115	70 - 135	%		



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664292-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664292-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955294

Date Prep: 11.12.14 10.09

Prep seq: 664292

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.12.14 10:09	U	1

Sample Id: 664345-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664345-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955355

Date Prep: 11.12.14 10.30

Prep seq: 664345

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.14.14 05:12	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.14.14 05:12	U	1
Iron	7439-89-6	0.0791	0.200	0.0283	mg/L	11.14.14 05:12	J	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.14.14 05:12	U	1

Sample Id: 955122-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955122-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955122

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.07.14 16:05	U	1



Certificate of Analytical Results

496800



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 955433-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955433-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955433

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	11.13.14 17:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Sample Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496800,

Project ID: 073018

Lab Batch #: 954934

Sample: 664183-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 11/10/14 10:10	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0300	0.0300	100	80-120
4-Bromofluorobenzene		0.0245	0.0300	82	80-120

Lab Batch #: 954934

Sample: 664183-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 11/10/14 10:26	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0308	0.0300	103	80-120
4-Bromofluorobenzene		0.0281	0.0300	94	80-120

Lab Batch #: 954934

Sample: 664183-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 11/10/14 10:42	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0310	0.0300	103	80-120
4-Bromofluorobenzene		0.0279	0.0300	93	80-120

Lab Batch #: 954934

Sample: 496800-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 11/10/14 10:59	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0316	0.0300	105	80-120
4-Bromofluorobenzene		0.0302	0.0300	101	80-120

Lab Batch #: 954934

Sample: 496800-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 11/10/14 11:15	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0326	0.0300	109	80-120
4-Bromofluorobenzene		0.0302	0.0300	101	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496800,

Project ID: 073018

Lab Batch #: 954986

Sample: 664220-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/10/14 20:54

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.8	10.0	108	70-135	
o-Terphenyl	5.74	5.00	115	70-135	

Lab Batch #: 954986

Sample: 664220-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/10/14 21:16

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.5	10.0	115	70-135	
o-Terphenyl	3.67	5.00	73	70-135	

Lab Batch #: 954986

Sample: 664220-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/10/14 21:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.3	10.0	113	70-135	
o-Terphenyl	3.71	5.00	74	70-135	

Lab Batch #: 954986

Sample: 496800-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/10/14 22:33

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	8.81	9.87	89	70-135	
o-Terphenyl	5.57	4.94	113	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Work Order #: 496800

Project ID:

073018

Lab Batch #: 955122

Sample: 955122-1-BKS

Matrix: Water

Date Analyzed: 11/07/2014

Date Prepared: 11/07/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Hexavalent Chromium	<0.00500	0.0400	0.0395	99	80-120	

Lab Batch #: 955433

Sample: 955433-1-BKS

Matrix: Water

Date Analyzed: 11/13/2014

Date Prepared: 11/13/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Total dissolved solids	<5.00	1000	1000	100	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 496800

Project ID: 073018

Analyst: ARM

Date Prepared: 11/10/2014

Date Analyzed: 11/10/2014

Lab Batch ID: 954934

Sample: 664183-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0884	88	0.100	0.0889	89	1	70-125	25	
Toluene	<0.00100	0.100	0.0927	93	0.100	0.0906	91	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0940	94	0.100	0.0960	96	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.193	97	0.200	0.197	99	2	70-131	25	
o-Xylene	<0.000700	0.100	0.0889	89	0.100	0.0901	90	1	71-133	25	

Analyst: DAB

Date Prepared: 11/12/2014

Date Analyzed: 11/14/2014

Lab Batch ID: 955355

Sample: 664345-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.05	105	1.00	1.07	107	2	80-120	20	
Chromium	<0.000811	1.00	1.19	119	1.00	1.20	120	1	80-120	20	
Iron	0.0791	5.00	5.26	105	5.00	5.28	106	0	80-120	20	
Manganese	<0.00316	1.00	1.04	104	1.00	1.04	104	0	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 496800

Project ID: 073018

Analyst: JUM

Date Prepared: 11/12/2014

Date Analyzed: 11/12/2014

Lab Batch ID: 955294

Sample: 664292-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	24.7	99	25.0	23.9	96	3	90-110	20	

Analyst: ARM

Date Prepared: 11/10/2014

Date Analyzed: 11/10/2014

Lab Batch ID: 954986

Sample: 664220-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.988	100	93.2	93	100	96.0	96	3	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.988	100	106	106	100	108	108	2	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Work Order #: 496800

Lab Batch #: 955294

Date Analyzed: 11/12/2014

QC- Sample ID: 496758-004 S

Reporting Units: mg/L

Date Prepared: 11/12/2014

Batch #: 1

Project ID: 073018

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	91.5	250	345	101	80-120	

Lab Batch #: 955294

Date Analyzed: 11/12/2014

QC- Sample ID: 496800-004 S

Reporting Units: mg/L

Date Prepared: 11/12/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	213	500	727	103	80-120	

Lab Batch #: 954986

Date Analyzed: 11/10/2014

QC- Sample ID: 496800-001 S

Reporting Units: mg/L

Date Prepared: 11/10/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	85.1	86	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.7	93.0	94	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
 Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
 All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 496800

Project ID: 073018

Lab Batch ID: 954934

QC- Sample ID: 496800-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/10/2014

Date Prepared: 11/10/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0927	93	0.100	0.0929	93	0	70-125	25	
Toluene	<0.00100	0.100	0.0980	98	0.100	0.0979	98	0	70-125	25	
Ethylbenzene	<0.000800	0.100	0.101	101	0.100	0.0993	99	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.208	104	0.200	0.204	102	2	70-131	25	
o-Xylene	<0.000700	0.100	0.0976	98	0.100	0.0959	96	2	71-133	25	

Lab Batch ID: 955122

QC- Sample ID: 496800-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/07/2014

Date Prepared: 11/07/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.0665	0.200	0.238	86	0.200	0.239	86	0	80-120	20	

Lab Batch ID: 955355

QC- Sample ID: 496758-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/14/2014

Date Prepared: 11/12/2014

Analyst: DAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	0.0181	1.00	1.04	102	1.00	1.10	108	6	75-125	20	
Chromium	0.00379	1.00	1.11	111	1.00	1.18	118	6	75-125	20	
Iron	<0.0283	5.00	3.34	67	5.00	3.56	71	6	75-125	20	X
Manganese	5.20	1.00	6.07	87	1.00	6.34	114	4	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 496800

Lab Batch #: 955433

Project ID: 073018

Date Analyzed: 11/13/2014 17:00

Date Prepared: 11/13/2014

Analyst: JUM

QC- Sample ID: 496758-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	4520	4860	7	10	

Lab Batch #: 955433

Date Analyzed: 11/13/2014 17:00

Date Prepared: 11/13/2014

Analyst: JUM

QC- Sample ID: 496800-004 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1560	1750	11	10	F

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



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Tampa, Florida (813-830-2000)

Client / Reporting Information

Company Name / Branch:

Company Address:

2135 S. Loop 250W Midland TX 79703

Email: Phone No:

Project Contact: Mike Wisniewski

Project Name: Wyle Wino Wreck

Sample Name: John Nixon

Project Information

Project Name/Number:

073018 N-Enric

Project Location:

Invoice To:

Enrica, NM

PO Number:

Analytical Information

Matrix Codes

A = Air
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
WW = Waste Water
W = Wipe
O = Oil
WW = Waste Water

No. Field ID / Point of Collection

No.	Field ID / Point of Collection	Collection		Number of preserved bottles										Field Comments
		Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE

1 MW-24A - 1107M

2 MW-13 - 1107M

3 MW-13A - 1107M

4 MW-61 - 1107M

5 MW-23 - 1107M

6 MW-23A - 1107M

7 Trip Blank

8

9

10

Turnaround Time (Business days)

Same Day TAT

Next Day EMERGENCY

2 Day EMERGENCY

3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 3:00 pm

Relinquished by: Sample

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

Relinquished by: Date Time: 11-7-14 1508

Relinquished by: Date Time: 11-7-14 1508

Relinquished by: Date Time: 11-7-14 1508

Relinquished by: Date Time: 11-7-14 1508

FED-EX / UPS: Tracking #

Relinquished by: Date Time: 11-7-14 1508

Relinquished by: Date Time: 11-7-14 1508

Relinquished by: Date Time: 11-7-14 1508

Relinquished by: Date Time: 11-7-14 1508

On Ice

Cooler Temp.

Thermo, Corr. Factor

Thermo, Corr. Factor

Thermo, Corr. Factor



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 11/07/2014 03:05:00 PM

Work Order #: 496800

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/07/2014

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/07/2014

Analytical Report 496899

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

17-NOV-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



17-NOV-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **496899**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 496899. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 496899 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-59-111014	W	11-10-14 09:30		496899-001
MW-70-111014	W	11-10-14 10:20		496899-002
MW-15A-111014	W	11-10-14 11:15		496899-003
MW-40A-111014	W	11-10-14 12:15		496899-004
LORD-WW-111014	W	11-10-14 13:15		496899-005
MW-62A-111014	W	11-10-14 14:40		496899-006
MW-63A-111014	W	11-10-14 09:30		496899-007
DUP-3-111014	W	11-10-14 00:00		496899-008
TRIP BLANK	W	11-10-14 00:00		496899-009



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018

Work Order Number(s): 496899

Report Date: 17-NOV-14

Date Received: 11/10/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Samples taken on New Mexico time. Time entered in LIMS is Texas time

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-59-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-001

Date Collected: 11.10.14 09.30

Date Received: 11.10.14 16.25

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.14.14 23.37

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	110	10.0	0.280	mg/L	11.14.14 23:37		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	653	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955432

Date Prep: 11.13.14 13.00

Subcontractor: SUB: E871002

Prep seq: 664391

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0231	0.0200	0.00550	mg/L	11.15.14 13:27		1
Chromium	7440-47-3	0.00574	0.0100	0.000811	mg/L	11.15.14 13:27	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.15.14 13:27	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.15.14 13:27	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955271

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.00600	0.0100	0.00500	mg/L	11.10.14 18:00	J	1



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-59-111014

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-001

Date Collected: 11.10.14 09.30

Date Received: 11.10.14 16.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955113

Date Prep: 11.11.14 14.00

Prep seq: 664298

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.11.14 17:59	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.11.14 17:59	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.11.14 17:59	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.11.14 17:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	124	70 - 135	%		
o-Terphenyl	130	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955116

Date Prep: 11.11.14 11.00

Prep seq: 664299

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 13:44	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 13:44	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 13:44	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 13:44	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 13:44	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 13:44	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 13:44	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-70-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-002

Date Collected: 11.10.14 10.20

Date Received: 11.10.14 16.25

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 00.23

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	162	10.0	0.280	mg/L	11.15.14 00:23		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	825	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955432

Date Prep: 11.13.14 13.00

Subcontractor: SUB: E871002

Prep seq: 664391

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0143	0.0200	0.00550	mg/L	11.16.14 15:10	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.16.14 15:10	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 15:10	U	1
Manganese	7439-96-5	0.00449	0.0200	0.00316	mg/L	11.16.14 15:10	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955271

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.10.14 18:00	U	1



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-70-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-002

Date Collected: 11.10.14 10.20

Date Received: 11.10.14 16.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955113

Date Prep: 11.11.14 14.00

Prep seq: 664298

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.11.14 18:46	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.11.14 18:46	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.11.14 18:46	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.11.14 18:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955116

Date Prep: 11.11.14 11.00

Prep seq: 664299

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 14:17	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 14:17	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 14:17	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 14:17	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 14:17	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 14:17	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 14:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-15A-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-003

Date Collected: 11.10.14 11.15

Date Received: 11.10.14 16.25

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 00.45

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	892	50.0	1.40	mg/L	11.15.14 00:45		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2550	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955432

Date Prep: 11.13.14 13.00

Subcontractor: SUB: E871002

Prep seq: 664391

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00704	0.0200	0.00550	mg/L	11.16.14 15:17	J	1
Chromium	7440-47-3	0.0109	0.0100	0.000811	mg/L	11.16.14 15:17		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 15:17	U	1
Manganese	7439-96-5	0.0143	0.0200	0.00316	mg/L	11.16.14 15:17	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955271

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.10.14 18:00	U	1



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-15A-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-003

Date Collected: 11.10.14 11.15

Date Received: 11.10.14 16.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955113

Date Prep: 11.11.14 14.00

Prep seq: 664298

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.11.14 19:09	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.11.14 19:09	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.11.14 19:09	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.11.14 19:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	70 - 135	%		
o-Terphenyl	99	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955116

Date Prep: 11.11.14 11.00

Prep seq: 664299

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 14:33	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 14:33	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 14:33	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 14:33	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 14:33	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 14:33	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 14:33	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-40A-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-004

Date Collected: 11.10.14 12.15

Date Received: 11.10.14 16.25

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 01.08

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	52.9	10.0	0.280	mg/L	11.15.14 01:08		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	575	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955432

Date Prep: 11.13.14 13.00

Subcontractor: SUB: E871002

Prep seq: 664391

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0181	0.0200	0.00550	mg/L	11.16.14 15:23	J	1
Chromium	7440-47-3	0.00225	0.0100	0.000811	mg/L	11.16.14 15:23	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 15:23	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.16.14 15:23	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955271

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.10.14 18:00	U	1



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-40A-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-004

Date Collected: 11.10.14 12.15

Date Received: 11.10.14 16.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955113

Date Prep: 11.11.14 14.00

Prep seq: 664298

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.11.14 19:33	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.11.14 19:33	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.11.14 19:33	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.11.14 19:33	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	113	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955116

Date Prep: 11.11.14 11.00

Prep seq: 664299

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 14:49	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 14:49	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 14:49	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 14:49	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 14:49	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 14:49	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 14:49	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **LORD-WW-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-005

Date Collected: 11.10.14 13.15

Date Received: 11.10.14 16.25

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 12.27

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1870	100	2.80	mg/L	11.15.14 12:27		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2780	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955432

Date Prep: 11.13.14 13.00

Subcontractor: SUB: E871002

Prep seq: 664391

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.16.14 15:30	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.16.14 15:30	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 15:30	U	1
Manganese	7439-96-5	0.147	0.0200	0.00316	mg/L	11.16.14 15:30		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955271

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.10.14 18:00	U	1



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **LORD-WW-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-005

Date Collected: 11.10.14 13.15

Date Received: 11.10.14 16.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955113

Date Prep: 11.11.14 14.00

Prep seq: 664298

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.11.14 19:56	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.11.14 19:56	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.11.14 19:56	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.11.14 19:56	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955116

Date Prep: 11.11.14 11.00

Prep seq: 664299

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 15:54	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 15:54	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 15:54	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 15:54	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 15:54	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 15:54	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 15:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-62A-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-006

Date Collected: 11.10.14 14.40

Date Received: 11.10.14 16.25

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 01.53

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	60.3	10.0	0.280	mg/L	11.15.14 01:53		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	476	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955432

Date Prep: 11.13.14 13.00

Subcontractor: SUB: E871002

Prep seq: 664391

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0253	0.0200	0.00550	mg/L	11.16.14 15:36		1
Chromium	7440-47-3	0.000903	0.0100	0.000811	mg/L	11.16.14 15:36	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 15:36	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.16.14 15:36	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955271

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.10.14 18:00	U	1



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-62A-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-006

Date Collected: 11.10.14 14.40

Date Received: 11.10.14 16.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955113

Date Prep: 11.11.14 14.00

Prep seq: 664298

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.11.14 20:19	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.11.14 20:19	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.11.14 20:19	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.11.14 20:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	93	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955116

Date Prep: 11.11.14 11.00

Prep seq: 664299

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 15:05	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 15:05	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 15:05	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 15:05	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 15:05	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 15:05	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 15:05	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	94	80 - 120	%		
4-Bromofluorobenzene	94	80 - 120	%		



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-63A-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-007

Date Collected: 11.10.14 09.30

Date Received: 11.10.14 16.25

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 03.01

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	53.1	10.0	0.280	mg/L	11.15.14 03:01		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	463	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955432

Date Prep: 11.13.14 13.00

Subcontractor: SUB: E871002

Prep seq: 664391

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0199	0.0200	0.00550	mg/L	11.16.14 15:43	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.16.14 15:43	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 15:43	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.16.14 15:43	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955271

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.10.14 18:00	U	1



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-63A-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-007

Date Collected: 11.10.14 09.30

Date Received: 11.10.14 16.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955113

Date Prep: 11.11.14 14.00

Prep seq: 664298

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.11.14 20:43	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.11.14 20:43	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.11.14 20:43	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.11.14 20:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955116

Date Prep: 11.11.14 11.00

Prep seq: 664299

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 15:22	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 15:22	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 15:22	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 15:22	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 15:22	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 15:22	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 15:22	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-3-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-008

Date Collected: 11.10.14 00.00

Date Received: 11.10.14 16.25

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 03.24

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	53.6	10.0	0.280	mg/L	11.15.14 03:24		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	489	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955432

Date Prep: 11.13.14 13.00

Subcontractor: SUB: E871002

Prep seq: 664391

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0148	0.0200	0.00550	mg/L	11.16.14 15:49	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.16.14 15:49	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 15:49	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.16.14 15:49	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955271

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.10.14 18:00	U	1



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-3-111014**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-008

Date Collected: 11.10.14 00.00

Date Received: 11.10.14 16.25

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955113

Date Prep: 11.11.14 14.00

Prep seq: 664298

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.11.14 21:06	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.11.14 21:06	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.11.14 21:06	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.11.14 21:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	70 - 135	%		
o-Terphenyl	100	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955116

Date Prep: 11.11.14 11.00

Prep seq: 664299

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 15:38	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 15:38	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 15:38	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 15:38	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 15:38	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 15:38	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 15:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	96	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 496899-009

Date Collected: 11.10.14 00.00

Date Received: 11.10.14 16.25

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955116

Date Prep: 11.11.14 11.00

Prep seq: 664299

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 14:01	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 14:01	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 14:01	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 14:01	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 14:01	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.11.14 14:01	U	
Total BTEX		ND		0.000700	mg/L	11.11.14 14:01	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664298-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664298-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955113

Date Prep: 11.11.14 14.00

Prep seq: 664298

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.50	0.988	mg/L	11.11.14 16:51	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.50	0.988	mg/L	11.11.14 16:51	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.50	0.988	mg/L	11.11.14 16:51	U	1
Total TPH	PHC635	ND		0.988	mg/L	11.11.14 16:51	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	108	70 - 135	%		
o-Terphenyl	113	70 - 135	%		

Sample Id: 664299-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664299-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955116

Date Prep: 11.11.14 11.00

Prep seq: 664299

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.11.14 12:06	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.11.14 12:06	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.11.14 12:06	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.11.14 12:06	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.11.14 12:06	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **664391-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 664391-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955432

Date Prep: 11.13.14 13.00

Subcontractor: SUB: E871002

Prep seq: 664391

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.15.14 13:07	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.15.14 13:07	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.15.14 13:07	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.15.14 13:07	U	1

Sample Id: **664455-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 664455-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.14.14 22.29

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.14.14 22:29	U	1

Sample Id: **955271-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 955271-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955271

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.10.14 18:00	U	1



Certificate of Analytical Results

496899



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 955505-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955505-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	11.14.14 12:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496899,

Project ID: 073018

Lab Batch #: 955116

Sample: 664299-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/11/14 12:06		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0293	0.0300	98	80-120
4-Bromofluorobenzene		0.0288	0.0300	96	80-120

Lab Batch #: 955116

Sample: 664299-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/11/14 12:23		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0299	0.0300	100	80-120
4-Bromofluorobenzene		0.0314	0.0300	105	80-120

Lab Batch #: 955116

Sample: 664299-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/11/14 12:39		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0306	0.0300	102	80-120
4-Bromofluorobenzene		0.0319	0.0300	106	80-120

Lab Batch #: 955116

Sample: 496899-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/11/14 12:55		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0309	0.0300	103	80-120
4-Bromofluorobenzene		0.0328	0.0300	109	80-120

Lab Batch #: 955116

Sample: 496899-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/11/14 13:12		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0305	0.0300	102	80-120
4-Bromofluorobenzene		0.0318	0.0300	106	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496899,

Project ID: 073018

Lab Batch #: 955113

Sample: 664298-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/11/14 16:51		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.8	10.0	108	70-135
o-Terphenyl		5.65	5.00	113	70-135

Lab Batch #: 955113

Sample: 664298-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/11/14 17:12		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.6	10.0	126	70-135
o-Terphenyl		3.77	5.00	75	70-135

Lab Batch #: 955113

Sample: 664298-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/11/14 17:36		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		12.1	10.0	121	70-135
o-Terphenyl		3.60	5.00	72	70-135

Lab Batch #: 955113

Sample: 496899-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/11/14 18:22		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.7	9.87	108	70-135
o-Terphenyl		5.33	4.93	108	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery

Project Name: N. Eunice/Eunice



Work Order #: 496899

Project ID:

073018

Lab Batch #: 955271

Sample: 955271-1-BKS

Matrix: Water

Date Analyzed: 11/10/2014

Date Prepared: 11/10/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0417	104	80-120	

Lab Batch #: 955505

Sample: 955505-1-BKS

Matrix: Water

Date Analyzed: 11/14/2014

Date Prepared: 11/14/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Total dissolved solids	<5.00	1000	985	99	80-120	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 496899

Project ID: 073018

Analyst: ARM

Date Prepared: 11/11/2014

Date Analyzed: 11/11/2014

Lab Batch ID: 955116

Sample: 664299-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0873	87	0.100	0.0872	87	0	70-125	25	
Toluene	<0.00100	0.100	0.0949	95	0.100	0.0948	95	0	70-125	25	
Ethylbenzene	<0.000800	0.100	0.102	102	0.100	0.102	102	0	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.211	106	0.200	0.211	106	0	70-131	25	
o-Xylene	<0.000700	0.100	0.0981	98	0.100	0.0977	98	0	71-133	25	

Analyst: DAB

Date Prepared: 11/13/2014

Date Analyzed: 11/15/2014

Lab Batch ID: 955432

Sample: 664391-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	0.881	88	1.00	0.887	89	1	80-120	20	
Chromium	<0.000811	1.00	0.896	90	1.00	0.903	90	1	80-120	20	
Iron	<0.0283	5.00	4.59	92	5.00	4.60	92	0	80-120	20	
Manganese	<0.00316	1.00	0.872	87	1.00	0.879	88	1	80-120	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes

Project Name: N. Eunice/Eunice

Work Order #: 496899

Project ID: 073018

Analyst: JUM

Date Prepared: 11/14/2014

Date Analyzed: 11/14/2014

Lab Batch ID: 955458

Sample: 664455-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	22.9	92	25.0	22.8	91	0	90-110	20	

Analyst: ARM

Date Prepared: 11/11/2014

Date Analyzed: 11/11/2014

Lab Batch ID: 955113

Sample: 664298-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	<0.988	100	97.5	98	100	91.4	91	6	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.988	100	110	110	100	104	104	6	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 496899

Lab Batch #: 955458

Date Analyzed: 11/15/2014

QC- Sample ID: 496899-001 S

Reporting Units: mg/L

Date Prepared: 11/15/2014

Batch #: 1

Project ID: 073018

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	110	250	359	100	80-120	

Lab Batch #: 955458

Date Analyzed: 11/15/2014

QC- Sample ID: 496966-003 S

Reporting Units: mg/L

Date Prepared: 11/15/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	709	1250	1890	94	80-120	

Lab Batch #: 955113

Date Analyzed: 11/11/2014

QC- Sample ID: 496899-001 S

Reporting Units: mg/L

Date Prepared: 11/11/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	82.9	84	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	92.8	94	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 496899

Project ID: 073018

Lab Batch ID: 955116

QC- Sample ID: 496899-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/11/2014

Date Prepared: 11/11/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0928	93	0.100	0.0901	90	3	70-125	25	
Toluene	<0.00100	0.100	0.101	101	0.100	0.0979	98	3	70-125	25	
Ethylbenzene	<0.000800	0.100	0.109	109	0.100	0.106	106	3	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.225	113	0.200	0.218	109	3	70-131	25	
o-Xylene	<0.000700	0.100	0.104	104	0.100	0.102	102	2	71-133	25	

Lab Batch ID: 955271

QC- Sample ID: 496899-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/10/2014

Date Prepared: 11/10/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	0.00600	0.200	0.211	103	0.200	0.209	102	1	80-120	20	

Lab Batch ID: 955432

QC- Sample ID: 496899-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/15/2014

Date Prepared: 11/13/2014

Analyst: DAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	0.0231	1.00	0.909	89	1.00	0.893	87	2	75-125	20	
Chromium	0.00574	1.00	0.914	91	1.00	0.893	89	2	75-125	20	
Iron	<0.0283	5.00	4.26	85	5.00	4.19	84	2	75-125	20	
Manganese	<0.00316	1.00	0.884	88	1.00	0.856	86	3	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 496899

Lab Batch #: 955505

Project ID: 073018

Date Analyzed: 11/14/2014 12:00

Date Prepared: 11/14/2014

Analyst: JUM

QC- Sample ID: 496899-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	653	654	0	10	

Lab Batch #: 955505

Date Analyzed: 11/14/2014 12:00

Date Prepared: 11/14/2014

Analyst: JUM

QC- Sample ID: 496966-003 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	2830	2840	0	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



CHAIN OF CUSTODY

Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

5

[illegible]

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 11/10/2014 04:25:00 PM

Work Order #: 496899

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/11/2014

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/11/2014

Analytical Report 496966

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

18-NOV-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



18-NOV-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **496966**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 496966. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 496966 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-57SA-111114	W	11-11-14 09:30		496966-001
MW-74SA-111114	W	11-11-14 10:25		496966-002
MW-83SA-111114	W	11-11-14 12:00		496966-003
MW-85SA-111114	W	11-11-14 12:50		496966-004
MW-84SA-111114	W	11-11-14 13:45		496966-005
MW-76SA-111114	W	11-11-14 15:15		496966-006
MW-75SA-111114	W	11-11-14 15:55		496966-007
TRIP BLANK	W	11-11-14 00:00		496966-008



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018
Work Order Number(s): 496966

Report Date: 18-NOV-14
Date Received: 11/11/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Samples taken on New Mexico time. Time entered in LIMS is Texas time

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-955439 Dissolved Metals per ICP by SW846 6010B

Iron detected in the blank below the MQL but above the SDL; possible laboratory contamination. Analyte was not detected in any of the associated samples and therefore the data was accepted. Samples affected are: 496966-007, -003, -006, -001, -005, -002, -004.



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-57SA-111114

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-001

Date Collected: 11.11.14 09.30

Date Received: 11.11.14 18.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 03.47

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	77.5	10.0	0.280	mg/L	11.15.14 03:47		10

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	722	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955439

Date Prep: 11.14.14 09.30

Subcontractor: SUB: E871002

Prep seq: 664425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0127	0.0200	0.00550	mg/L	11.16.14 17:32	J	1
Chromium	7440-47-3	0.00119	0.0100	0.000811	mg/L	11.16.14 17:32	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 17:32	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.16.14 17:32	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955276

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.11.14 18:30	U	1



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-57SA-111114

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-001

Date Collected: 11.11.14 09.30

Date Received: 11.11.14 18.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955562

Date Prep: 11.13.14 17.00

Prep seq: 664422

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.14.14 15:34	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.14.14 15:34	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.14.14 15:34	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.14.14 15:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	115	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955234

Date Prep: 11.12.14 15.00

Prep seq: 664359

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.12.14 19:00	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.12.14 19:00	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.12.14 19:00	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.12.14 19:00	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.12.14 19:00	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.12.14 19:00	U	
Total BTEX		ND		0.000700	mg/L	11.12.14 19:00	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	97	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-74SA-111114

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-002

Date Collected: 11.11.14 10.25

Date Received: 11.11.14 18.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 04.10

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	450	50.0	1.40	mg/L	11.15.14 04:10		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2100	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955439

Date Prep: 11.14.14 09.30

Subcontractor: SUB: E871002

Prep seq: 664425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.00628	0.0200	0.00550	mg/L	11.16.14 18:11	J	1
Chromium	7440-47-3	0.00908	0.0100	0.000811	mg/L	11.16.14 18:11	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 18:11	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.16.14 18:11	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955276

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0104	0.0100	0.00500	mg/L	11.11.14 18:30		1



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-74SA-111114

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-002

Date Collected: 11.11.14 10.25

Date Received: 11.11.14 18.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955562

Date Prep: 11.13.14 17.00

Prep seq: 664422

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.14.14 16:23	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.14.14 16:23	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.14.14 16:23	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.14.14 16:23	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955234

Date Prep: 11.12.14 15.00

Prep seq: 664359

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.12.14 19:17	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.12.14 19:17	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.12.14 19:17	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.12.14 19:17	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.12.14 19:17	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.12.14 19:17	U	
Total BTEX		ND		0.000700	mg/L	11.12.14 19:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-83SA-111114**

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-003

Date Collected: 11.11.14 12.00

Date Received: 11.11.14 18.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 04.32

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	709	50.0	1.40	mg/L	11.15.14 04:32		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2830	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955439

Date Prep: 11.14.14 09.30

Subcontractor: SUB: E871002

Prep seq: 664425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.16.14 18:18	U	1
Chromium	7440-47-3	0.00185	0.0100	0.000811	mg/L	11.16.14 18:18	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 18:18	U	1
Manganese	7439-96-5	0.142	0.0200	0.00316	mg/L	11.16.14 18:18		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955276

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.11.14 18:30	U	1



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-83SA-111114

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-003

Date Collected: 11.11.14 12.00

Date Received: 11.11.14 18.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955562

Date Prep: 11.13.14 17.00

Prep seq: 664422

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.14.14 16:47	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.14.14 16:47	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.14.14 16:47	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.14.14 16:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	87	70 - 135	%		
o-Terphenyl	98	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955234

Date Prep: 11.12.14 15.00

Prep seq: 664359

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.12.14 19:33	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.12.14 19:33	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.12.14 19:33	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.12.14 19:33	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.12.14 19:33	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.12.14 19:33	U	
Total BTEX		ND		0.000700	mg/L	11.12.14 19:33	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-85SA-111114**

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-004

Date Collected: 11.11.14 12.50

Date Received: 11.11.14 18.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 05.18

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	596	50.0	1.40	mg/L	11.15.14 05:18		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2670	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955439

Date Prep: 11.14.14 09.30

Subcontractor: SUB: E871002

Prep seq: 664425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0127	0.0200	0.00550	mg/L	11.16.14 18:24	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.16.14 18:24	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 18:24	U	1
Manganese	7439-96-5	0.499	0.0200	0.00316	mg/L	11.16.14 18:24		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955276

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.11.14 18:30	U	1



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-85SA-111114

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-004

Date Collected: 11.11.14 12.50

Date Received: 11.11.14 18.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955562

Date Prep: 11.13.14 17.00

Prep seq: 664422

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.14.14 17:11	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.14.14 17:11	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.14.14 17:11	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.14.14 17:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	81	70 - 135	%		
o-Terphenyl	94	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955234

Date Prep: 11.12.14 15.00

Prep seq: 664359

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.12.14 19:49	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.12.14 19:49	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.12.14 19:49	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.12.14 19:49	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.12.14 19:49	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.12.14 19:49	U	
Total BTEX		ND		0.000700	mg/L	11.12.14 19:49	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-84SA-111114**

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-005

Date Collected: 11.11.14 13.45

Date Received: 11.11.14 18.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 05.40

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	975	50.0	1.40	mg/L	11.15.14 05:40		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3100	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955439

Date Prep: 11.14.14 09.30

Subcontractor: SUB: E871002

Prep seq: 664425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.16.14 18:31	U	1
Chromium	7440-47-3	0.0240	0.0100	0.000811	mg/L	11.16.14 18:31		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 18:31	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.16.14 18:31	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955276

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0218	0.0100	0.00500	mg/L	11.11.14 18:30		1



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-84SA-111114

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-005

Date Collected: 11.11.14 13.45

Date Received: 11.11.14 18.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955562

Date Prep: 11.13.14 17.00

Prep seq: 664422

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.14.14 17:35	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.14.14 17:35	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.14.14 17:35	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.14.14 17:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955234

Date Prep: 11.12.14 15.00

Prep seq: 664359

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.12.14 20:06	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.12.14 20:06	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.12.14 20:06	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.12.14 20:06	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.12.14 20:06	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.12.14 20:06	U	
Total BTEX		ND		0.000700	mg/L	11.12.14 20:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-76SA-111114**

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-006

Date Collected: 11.11.14 15.15

Date Received: 11.11.14 18.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 06.03

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	365	50.0	1.40	mg/L	11.15.14 06:03		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2110	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955439

Date Prep: 11.14.14 09.30

Subcontractor: SUB: E871002

Prep seq: 664425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0105	0.0200	0.00550	mg/L	11.16.14 18:37	J	1
Chromium	7440-47-3	0.00312	0.0100	0.000811	mg/L	11.16.14 18:37	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 18:37	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.16.14 18:37	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955276

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.11.14 18:30	U	1



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-76SA-111114

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-006

Date Collected: 11.11.14 15.15

Date Received: 11.11.14 18.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955562

Date Prep: 11.13.14 17.00

Prep seq: 664422

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.14.14 17:59	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.14.14 17:59	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.14.14 17:59	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.14.14 17:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	83	70 - 135	%		
o-Terphenyl	96	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955234

Date Prep: 11.12.14 15.00

Prep seq: 664359

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.12.14 20:22	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.12.14 20:22	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.12.14 20:22	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.12.14 20:22	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.12.14 20:22	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.12.14 20:22	U	
Total BTEX		ND		0.000700	mg/L	11.12.14 20:22	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-75SA-111114

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-007

Date Collected: 11.11.14 15.55

Date Received: 11.11.14 18.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955458

Date Prep: 11.15.14 06.26

Prep seq: 664455

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	400	50.0	1.40	mg/L	11.15.14 06:26		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2050	5.00	5.00	mg/L	11.14.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955439

Date Prep: 11.14.14 09.30

Subcontractor: SUB: E871002

Prep seq: 664425

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0148	0.0200	0.00550	mg/L	11.16.14 18:44	J	1
Chromium	7440-47-3	0.00369	0.0100	0.000811	mg/L	11.16.14 18:44	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.16.14 18:44	U	1
Manganese	7439-96-5	0.00954	0.0200	0.00316	mg/L	11.16.14 18:44	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955276

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.11.14 18:30	U	1



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-75SA-111114

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-007

Date Collected: 11.11.14 15.55

Date Received: 11.11.14 18.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955562

Date Prep: 11.13.14 17.00

Prep seq: 664422

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.14.14 18:22	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.14.14 18:22	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.14.14 18:22	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.14.14 18:22	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	86	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955234

Date Prep: 11.12.14 15.00

Prep seq: 664359

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.12.14 20:38	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.12.14 20:38	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.12.14 20:38	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.12.14 20:38	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.12.14 20:38	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.12.14 20:38	U	
Total BTEX		ND		0.000700	mg/L	11.12.14 20:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 496966-008

Date Collected: 11.11.14 00.00

Date Received: 11.11.14 18.00

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955234

Date Prep: 11.12.14 15.00

Prep seq: 664359

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.12.14 20:54	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.12.14 20:54	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.12.14 20:54	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.12.14 20:54	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.12.14 20:54	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.12.14 20:54	U	
Total BTEX		ND		0.000700	mg/L	11.12.14 20:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664359-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664359-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955234

Date Prep: 11.12.14 15.00

Prep seq: 664359

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.12.14 17:23	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.12.14 17:23	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.12.14 17:23	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.12.14 17:23	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.12.14 17:23	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		

Sample Id: 664422-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664422-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955562

Date Prep: 11.13.14 17.00

Prep seq: 664422

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.50	0.988	mg/L	11.14.14 14:22	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.50	0.988	mg/L	11.14.14 14:22	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.50	0.988	mg/L	11.14.14 14:22	U	1
Total TPH	PHC635	ND		0.988	mg/L	11.14.14 14:22	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	102	70 - 135	%		
o-Terphenyl	118	70 - 135	%		

Certificate of Analytical Results

496966

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664425-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 664425-1-BLK	Date Collected:	Date Received:
Analytical Method: Dissolved Metals per ICP by SW846 6010B		Prep Method: 3010A
Analyst: DAB	% Moist:	Tech: DAB
Seq Number: 955439	Date Prep: 11.14.14 09.30	
Subcontractor: SUB: E871002	Prep seq: 664425	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.16.14 17:20	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.16.14 17:20	U	1
Iron	7439-89-6	0.0836	0.200	0.0283	mg/L	11.16.14 17:20	J	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.16.14 17:20	U	1

Sample Id: 664455-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 664455-1-BLK	Date Collected:	Date Received:
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: JUM	% Moist:	Tech: JUM
Seq Number: 955458	Date Prep: 11.14.14 22.29	
	Prep seq: 664455	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.14.14 22:29	U	1

Sample Id: 955276-1-BLK	Matrix: Water	Sample Depth:
Lab Sample Id: 955276-1-BLK	Date Collected:	Date Received:
Analytical Method: Chromium, Hexavalent by SW 7196A		Prep Method:
Analyst: WRU	% Moist:	Tech: WRU
Seq Number: 955276	Date Prep:	
	Prep seq:	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.11.14 18:30	U	1



Certificate of Analytical Results

496966



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 955505-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955505-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955505

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	11.14.14 12:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496966,

Project ID: 073018

Lab Batch #: 955234

Sample: 664359-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/12/14 17:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 955234

Sample: 664359-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/12/14 17:40

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

Lab Batch #: 955234

Sample: 664359-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/12/14 17:56

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

Lab Batch #: 955234

Sample: 496966-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/12/14 18:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	80-120	

Lab Batch #: 955234

Sample: 496966-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/12/14 18:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0324	0.0300	108	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 496966,

Project ID: 073018

Lab Batch #: 955562

Sample: 664422-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/14/14 14:22

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.2	10.0	102	70-135	
o-Terphenyl	5.92	5.00	118	70-135	

Lab Batch #: 955562

Sample: 664422-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/14/14 14:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.8	10.0	118	70-135	
o-Terphenyl	6.15	5.00	123	70-135	

Lab Batch #: 955562

Sample: 664422-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/14/14 15:10

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.4	10.0	124	70-135	
o-Terphenyl	6.43	5.00	129	70-135	

Lab Batch #: 955562

Sample: 496966-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/14/14 15:59

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.7	9.87	108	70-135	
o-Terphenyl	5.47	4.94	111	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Work Order #: 496966

Project ID:

073018

Lab Batch #: 955276

Sample: 955276-1-BKS

Matrix: Water

Date Analyzed: 11/11/2014

Date Prepared: 11/11/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0419	105	80-120	

Lab Batch #: 955439

Sample: 664425-1-BKS

Matrix: Water

Date Analyzed: 11/16/2014

Date Prepared: 11/14/2014

Analyst: DAB

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Arsenic	<0.00550	1.00	1.15	115	80-120	
Chromium	<0.000811	1.00	1.16	116	80-120	
Iron	0.0836	5.00	5.54	111	80-120	
Manganese	<0.00316	1.00	1.11	111	80-120	

Lab Batch #: 955505

Sample: 955505-1-BKS

Matrix: Water

Date Analyzed: 11/14/2014

Date Prepared: 11/14/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Total dissolved solids	<5.00	1000	985	99	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 496966

Project ID: 073018

Analyst: ARM

Date Prepared: 11/12/2014

Date Analyzed: 11/12/2014

Lab Batch ID: 955234

Sample: 664359-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0852	85	0.100	0.0858	86	1	70-125	25	
Toluene	<0.00100	0.100	0.0921	92	0.100	0.0932	93	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0991	99	0.100	0.0996	100	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.205	103	0.200	0.205	103	0	70-131	25	
o-Xylene	<0.000700	0.100	0.0966	97	0.100	0.0969	97	0	71-133	25	

Analyst: JUM

Date Prepared: 11/14/2014

Date Analyzed: 11/14/2014

Lab Batch ID: 955458

Sample: 664455-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	22.9	92	25.0	22.8	91	0	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 496966

Project ID: 073018

Analyst: ARM

Date Prepared: 11/13/2014

Date Analyzed: 11/14/2014

Lab Batch ID: 955562

Sample: 664422-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.988	100	83.6	84	100	86.1	86	3	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.988	100	107	107	100	111	111	4	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 496966

Lab Batch #: 955458

Date Analyzed: 11/15/2014

QC- Sample ID: 496899-001 S

Reporting Units: mg/L

Date Prepared: 11/15/2014

Batch #: 1

Project ID: 073018

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	110	250	359	100	80-120	

Lab Batch #: 955458

Date Analyzed: 11/15/2014

QC- Sample ID: 496966-003 S

Reporting Units: mg/L

Date Prepared: 11/15/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	709	1250	1890	94	80-120	

Lab Batch #: 955562

Date Analyzed: 11/14/2014

QC- Sample ID: 496966-001 S

Reporting Units: mg/L

Date Prepared: 11/13/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	81.9	83	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	102	103	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 496966

Project ID: 073018

Lab Batch ID: 955234

QC- Sample ID: 496966-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/12/2014

Date Prepared: 11/12/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.0883	88	0.100	0.0870	87	1	70-125	25	
Toluene	<0.00100	0.100	0.0956	96	0.100	0.0941	94	2	70-125	25	
Ethylbenzene	<0.000800	0.100	0.103	103	0.100	0.101	101	2	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.212	106	0.200	0.208	104	2	70-131	25	
o-Xylene	<0.000700	0.100	0.0983	98	0.100	0.0973	97	1	71-133	25	

Lab Batch ID: 955276

QC- Sample ID: 496966-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/11/2014

Date Prepared: 11/11/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	<0.00500	0.200	0.208	104	0.200	0.211	106	1	80-120	20	

Lab Batch ID: 955439

QC- Sample ID: 496966-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/16/2014

Date Prepared: 11/14/2014

Analyst: DAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	0.0127	1.00	1.18	117	1.00	1.12	111	5	75-125	20	
Chromium	0.00119	1.00	1.18	118	1.00	1.10	110	7	75-125	20	
Iron	<0.0283	5.00	5.28	106	5.00	4.95	99	6	75-125	20	
Manganese	<0.00316	1.00	1.12	112	1.00	1.05	105	6	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 496966

Lab Batch #: 955505

Project ID: 073018

Date Analyzed: 11/14/2014 12:00

Date Prepared: 11/14/2014

Analyst: JUM

QC- Sample ID: 496899-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	653	654	0	10	

Lab Batch #: 955505

Date Analyzed: 11/14/2014 12:00

Date Prepared: 11/14/2014

Analyst: JUM

QC- Sample ID: 496966-003 D

Batch #: 1

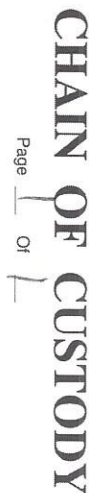
Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	2830	2840	0	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



Lakeland, Florida (863-646-8526)

Tampa, Florida (813-620-2000)

29/09/06

Final 1.000



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 11/11/2014 06:00:00 PM

Work Order #: 496966

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/12/2014

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/12/2014

Analytical Report 497047

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

20-NOV-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



20-NOV-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **497047**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 497047. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 497047 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-71SA-111214	W	11-12-14 09:50		497047-001
MW-86SA-111214	W	11-12-14 11:20		497047-002
MW-65SA-111214	W	11-12-14 12:35		497047-003
MW-72SA-111214	W	11-12-14 14:30		497047-004
MW-66SA-111214	W	11-12-14 14:00		497047-005
MW-73SA-111214	W	11-12-14 15:20		497047-006
DUP-4-111214	W	11-12-14 00:00		497047-007
TRIP BLANK	W	11-12-14 00:00		497047-008
MW-55SA-111214	W	11-12-14 16:05		497047-009



CASE NARRATIVE



Client Name: Conestoga Rovers & Associates

Project Name: N. Eunice/Eunice

Project ID: 073018
Work Order Number(s): 497047

Report Date: 20-NOV-14
Date Received: 11/12/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Samples taken on New Mexico time. Time entered in LIMS is Texas time

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-955663 Dissolved Metals per ICP by SW846 6010B
SW6010B

Batch 955663,

Arsenic detected in the blank below the MQL but above the SDL; possible laboratory contamination indicating a potential high bias. Samples affected are: 497047-004, -005, -007, -002, -003, -009, -006, -001.

Certificate of Analytical Results

497047

Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-71SA-111214	Matrix: Water	Sample Depth:
Lab Sample Id: 497047-001	Date Collected: 11.12.14 09.50	Date Received: 11.12.14 16.30
Analytical Method: Inorganic Anions by EPA 300/300.1		Prep Method: E300P
Analyst: JUM	% Moist:	Tech: JUM
Seq Number: 955653	Date Prep: 11.19.14 00.36	
	Prep seq: 664580	

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	103	10.0	0.280	mg/L	11.19.14 00:36		10

Analytical Method: TDS by SM2540C	Prep Method:
Analyst: JUM	Tech: JUM
Seq Number: 955749	
	% Moist:
	Date Prep:
	Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	725	5.00	5.00	mg/L	11.18.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B	Prep Method: 3010A
Analyst: DAB	Tech: DAB
Seq Number: 955663	
	% Moist:
	Date Prep: 11.17.14 11.30
Subcontractor: SUB: E871002	Prep seq: 664485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0125	0.0200	0.00550	mg/L	11.20.14 02:16	J	1
Chromium	7440-47-3	0.00368	0.0100	0.000811	mg/L	11.19.14 02:13	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 02:13	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 02:13	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A	Prep Method:
Analyst: WRU	Tech: WRU
Seq Number: 955668	
	% Moist:
	Date Prep:
	Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.12.14 18:35	U	1



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-71SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-001

Date Collected: 11.12.14 09.50

Date Received: 11.12.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.15.14 11:32	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.15.14 11:32	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.15.14 11:32	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.15.14 11:32	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	99	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955548

Date Prep: 11.13.14 17.00

Prep seq: 664420

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.14.14 18:52	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.14.14 18:52	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.14.14 18:52	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.14.14 18:52	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.14.14 18:52	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.14.14 18:52	U	
Total BTEX		ND		0.000700	mg/L	11.14.14 18:52	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-86SA-111214**

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-002

Date Collected: 11.12.14 11.20

Date Received: 11.12.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955653

Date Prep: 11.19.14 00.59

Prep seq: 664580

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	514	50.0	1.40	mg/L	11.19.14 00:59		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955749

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1660	5.00	5.00	mg/L	11.18.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955663

Date Prep: 11.17.14 11.30

Subcontractor: SUB: E871002

Prep seq: 664485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0178	0.0200	0.00550	mg/L	11.20.14 02:55	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 02:32	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 02:32	U	1
Manganese	7439-96-5	0.00433	0.0200	0.00316	mg/L	11.19.14 02:32	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955668

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.12.14 18:35	U	1



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-86SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-002

Date Collected: 11.12.14 11.20

Date Received: 11.12.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 12:15	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 12:15	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 12:15	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 12:15	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.13.14 17.00

Prep seq: 664420

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.14.14 19:08	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.14.14 19:08	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.14.14 19:08	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.14.14 19:08	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.14.14 19:08	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.14.14 19:08	U	
Total BTEX		ND		0.000700	mg/L	11.14.14 19:08	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-65SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-003

Date Collected: 11.12.14 12.35

Date Received: 11.12.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955653

Date Prep: 11.19.14 01.21

Prep seq: 664580

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	939	50.0	1.40	mg/L	11.19.14 01:21		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955749

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3190	5.00	5.00	mg/L	11.18.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955663

Date Prep: 11.17.14 11.30

Subcontractor: SUB: E871002

Prep seq: 664485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0208	0.0200	0.00550	mg/L	11.20.14 03:01		1
Chromium	7440-47-3	0.0739	0.0100	0.000811	mg/L	11.19.14 02:39		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 02:39	U	1
Manganese	7439-96-5	0.00853	0.0200	0.00316	mg/L	11.19.14 02:39	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955668

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0743	0.0100	0.00500	mg/L	11.12.14 18:35		1



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-65SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-003

Date Collected: 11.12.14 12.35

Date Received: 11.12.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 12:38	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 12:38	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 12:38	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 12:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	99	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.13.14 17.00

Prep seq: 664420

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.14.14 19:25	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.14.14 19:25	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.14.14 19:25	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.14.14 19:25	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.14.14 19:25	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.14.14 19:25	U	
Total BTEX		ND		0.000700	mg/L	11.14.14 19:25	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	102	80 - 120	%		
4-Bromofluorobenzene	101	80 - 120	%		



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-72SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-004

Date Collected: 11.12.14 14.30

Date Received: 11.12.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955653

Date Prep: 11.19.14 01.44

Prep seq: 664580

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	232	20.0	0.560	mg/L	11.19.14 01:44		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955749

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1090	5.00	5.00	mg/L	11.18.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955663

Date Prep: 11.17.14 11.30

Subcontractor: SUB: E871002

Prep seq: 664485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0220	0.0200	0.00550	mg/L	11.20.14 03:08		1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 02:45	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 02:45	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 02:45	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955668

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.12.14 18:35	U	1



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-72SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-004

Date Collected: 11.12.14 14.30

Date Received: 11.12.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 13:00	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 13:00	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 13:00	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 13:00	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	102	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955548

Date Prep: 11.13.14 17.00

Prep seq: 664420

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.14.14 19:41	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.14.14 19:41	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.14.14 19:41	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.14.14 19:41	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.14.14 19:41	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.14.14 19:41	U	
Total BTEX		ND		0.000700	mg/L	11.14.14 19:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	100	80 - 120	%		



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-66SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-005

Date Collected: 11.12.14 14.00

Date Received: 11.12.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955653

Date Prep: 11.19.14 02.52

Prep seq: 664580

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1250	100	2.80	mg/L	11.19.14 02:52		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955749

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3990	5.00	5.00	mg/L	11.18.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955663

Date Prep: 11.17.14 11.30

Subcontractor: SUB: E871002

Prep seq: 664485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0110	0.0200	0.00550	mg/L	11.20.14 03:14	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 02:52	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 02:52	U	1
Manganese	7439-96-5	0.883	0.0200	0.00316	mg/L	11.19.14 02:52		1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955668

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.12.14 18:35	U	1



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-66SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-005

Date Collected: 11.12.14 14.00

Date Received: 11.12.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 13:22	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 13:22	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 13:22	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 13:22	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	96	70 - 135	%		
o-Terphenyl	106	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.13.14 17.00

Prep seq: 664420

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.14.14 19:57	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.14.14 19:57	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.14.14 19:57	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.14.14 19:57	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.14.14 19:57	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.14.14 19:57	U	
Total BTEX		ND		0.000700	mg/L	11.14.14 19:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	101	80 - 120	%		



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-73SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-006

Date Collected: 11.12.14 15.20

Date Received: 11.12.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955653

Date Prep: 11.19.14 03.15

Prep seq: 664580

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	299	20.0	0.560	mg/L	11.19.14 03:15		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955749

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1140	5.00	5.00	mg/L	11.18.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955663

Date Prep: 11.17.14 11.30

Subcontractor: SUB: E871002

Prep seq: 664485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0190	0.0200	0.00550	mg/L	11.20.14 03:21	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 03:18	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 03:18	U	1
Manganese	7439-96-5	0.00434	0.0200	0.00316	mg/L	11.19.14 03:18	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955668

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.12.14 18:35	U	1



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-73SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-006

Date Collected: 11.12.14 15.20

Date Received: 11.12.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 13:46	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 13:46	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 13:46	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 13:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	107	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955548

Date Prep: 11.13.14 17.00

Prep seq: 664420

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.14.14 20:14	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.14.14 20:14	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.14.14 20:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.14.14 20:14	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.14.14 20:14	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.14.14 20:14	U	
Total BTEX		ND		0.000700	mg/L	11.14.14 20:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-4-111214**

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-007

Date Collected: 11.12.14 00.00

Date Received: 11.12.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955653

Date Prep: 11.19.14 03.38

Prep seq: 664580

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	297	20.0	0.560	mg/L	11.19.14 03:38		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955749

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1140	5.00	5.00	mg/L	11.18.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955663

Date Prep: 11.17.14 11.30

Subcontractor: SUB: E871002

Prep seq: 664485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0119	0.0200	0.00550	mg/L	11.20.14 03:27	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 03:24	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 03:24	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 03:24	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955668

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.12.14 18:35	U	1



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-4-111214**

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-007

Date Collected: 11.12.14 00.00

Date Received: 11.12.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 14:10	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 14:10	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 14:10	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 14:10	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	108	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955548

Date Prep: 11.13.14 17.00

Prep seq: 664420

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.14.14 20:30	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.14.14 20:30	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.14.14 20:30	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.14.14 20:30	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.14.14 20:30	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.14.14 20:30	U	
Total BTEX		ND		0.000700	mg/L	11.14.14 20:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-008

Date Collected: 11.12.14 00.00

Date Received: 11.12.14 16.30

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955548

Date Prep: 11.13.14 17.00

Prep seq: 664420

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.14.14 20:46	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.14.14 20:46	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.14.14 20:46	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.14.14 20:46	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.14.14 20:46	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.14.14 20:46	U	
Total BTEX		ND		0.000700	mg/L	11.14.14 20:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-55SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-009

Date Collected: 11.12.14 16.05

Date Received: 11.12.14 16.30

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955653

Date Prep: 11.19.14 04.00

Prep seq: 664580

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	557	50.0	1.40	mg/L	11.19.14 04:00		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955749

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2010	5.00	5.00	mg/L	11.18.14 12:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955663

Date Prep: 11.17.14 11.30

Subcontractor: SUB: E871002

Prep seq: 664485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0109	0.0200	0.00550	mg/L	11.20.14 03:34	J	1
Chromium	7440-47-3	0.159	0.0100	0.000811	mg/L	11.19.14 03:31		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 03:31	U	1
Manganese	7439-96-5	0.00502	0.0200	0.00316	mg/L	11.19.14 03:31	J	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955668

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.166	0.0100	0.00500	mg/L	11.12.14 18:35		1



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-55SA-111214

Matrix: Water

Sample Depth:

Lab Sample Id: 497047-009

Date Collected: 11.12.14 16.05

Date Received: 11.12.14 16.30

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.15.14 14:33	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.15.14 14:33	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.15.14 14:33	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.15.14 14:33	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955548

Date Prep: 11.13.14 17.00

Prep seq: 664420

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.14.14 21:03	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.14.14 21:03	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.14.14 21:03	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.14.14 21:03	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.14.14 21:03	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.14.14 21:03	U	
Total BTEX		ND		0.000700	mg/L	11.14.14 21:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664420-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664420-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955548

Date Prep: 11.13.14 17:00

Prep seq: 664420

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.14.14 17:14	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.14.14 17:14	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.14.14 17:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.14.14 17:14	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.14.14 17:14	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	98	80 - 120	%		

Sample Id: 664485-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664485-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955663

Date Prep: 11.17.14 11:30

Subcontractor: SUB: E871002

Prep seq: 664485

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 02:00	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 02:00	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 02:00	U	1



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664559-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664559-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.50	0.988	mg/L	11.15.14 10:28	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.50	0.988	mg/L	11.15.14 10:28	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.50	0.988	mg/L	11.15.14 10:28	U	1
Total TPH	PHC635	ND		0.988	mg/L	11.15.14 10:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	114	70 - 135	%		

Sample Id: 664580-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664580-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955653

Date Prep: 11.18.14 22.20

Prep seq: 664580

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.18.14 22:20	U	1

Sample Id: 664669-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664669-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955797

Date Prep: 11.19.14 13.45

Prep seq: 664669

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.20.14 02:03	U	1



Certificate of Analytical Results

497047



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 955668-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955668-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955668

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.12.14 18:35	U	1

Sample Id: 955749-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955749-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955749

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	11.18.14 12:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 497047,

Project ID: 073018

Lab Batch #: 955548

Sample: 664420-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/14/14 17:14		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0295	0.0300	98	80-120
4-Bromofluorobenzene		0.0294	0.0300	98	80-120

Lab Batch #: 955548

Sample: 664420-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/14/14 17:30		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0310	0.0300	103	80-120
4-Bromofluorobenzene		0.0324	0.0300	108	80-120

Lab Batch #: 955548

Sample: 664420-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/14/14 17:46		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0303	0.0300	101	80-120
4-Bromofluorobenzene		0.0329	0.0300	110	80-120

Lab Batch #: 955548

Sample: 497047-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/14/14 18:03		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0307	0.0300	102	80-120
4-Bromofluorobenzene		0.0322	0.0300	107	80-120

Lab Batch #: 955548

Sample: 497047-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/14/14 18:19		SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0314	0.0300	105	80-120
4-Bromofluorobenzene		0.0330	0.0300	110	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 497047,

Project ID: 073018

Lab Batch #: 955584

Sample: 664559-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/15/14 10:28		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
1-Chlorooctane		10.4	10.0	104	70-135
o-Terphenyl		5.72	5.00	114	70-135

Lab Batch #: 955584

Sample: 664559-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/15/14 10:49		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
1-Chlorooctane		11.7	10.0	117	70-135
o-Terphenyl		6.10	5.00	122	70-135

Lab Batch #: 955584

Sample: 664559-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/15/14 11:11		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
1-Chlorooctane		12.7	10.0	127	70-135
o-Terphenyl		6.18	5.00	124	70-135

Lab Batch #: 955584

Sample: 497047-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/15/14 11:53		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
1-Chlorooctane		11.5	9.87	117	70-135
o-Terphenyl		5.53	4.94	112	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Work Order #: 497047

Project ID:

073018

Lab Batch #: 955668

Sample: 955668-1-BKS

Matrix: Water

Date Analyzed: 11/12/2014

Date Prepared: 11/12/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0367	92	80-120	

Lab Batch #: 955663

Sample: 664485-1-BKS

Matrix: Water

Date Analyzed: 11/19/2014

Date Prepared: 11/17/2014

Analyst: DAB

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chromium	<0.000811	1.00	1.02	102	80-120	
Iron	<0.0283	5.00	4.67	93	80-120	
Manganese	<0.00316	1.00	0.868	87	80-120	

Lab Batch #: 955797

Sample: 664669-1-BKS

Matrix: Water

Date Analyzed: 11/20/2014

Date Prepared: 11/19/2014

Analyst: DAB

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Arsenic	<0.00550	1.00	1.03	103	80-120	

Lab Batch #: 955749

Sample: 955749-1-BKS

Matrix: Water

Date Analyzed: 11/18/2014

Date Prepared: 11/18/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Total dissolved solids	<5.00	1000	1110	111	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 497047

Project ID: 073018

Analyst: ARM

Date Prepared: 11/13/2014

Date Analyzed: 11/14/2014

Lab Batch ID: 955548

Sample: 664420-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0821	82	0.100	0.0779	78	5	70-125	25	
Toluene	<0.00100	0.100	0.0856	86	0.100	0.0822	82	4	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0886	89	0.100	0.0854	85	4	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.181	91	0.200	0.176	88	3	70-131	25	
o-Xylene	<0.000700	0.100	0.0896	90	0.100	0.0872	87	3	71-133	25	

Analyst: JUM

Date Prepared: 11/18/2014

Date Analyzed: 11/18/2014

Lab Batch ID: 955653

Sample: 664580-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	23.7	95	25.0	23.4	94	1	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 497047

Project ID: 073018

Analyst: ARM

Date Prepared: 11/14/2014

Date Analyzed: 11/15/2014

Lab Batch ID: 955584

Sample: 664559-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.988	100	82.4	82	100	86.2	86	5	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.988	100	103	103	100	106	106	3	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 497047

Lab Batch #: 955653

Date Analyzed: 11/18/2014

QC- Sample ID: 496992-001 S

Reporting Units: mg/L

Date Prepared: 11/18/2014

Batch #: 1

Project ID: 073018

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	53400	25000	77400	96	80-120	

Lab Batch #: 955653

Date Analyzed: 11/19/2014

QC- Sample ID: 497062-001 S

Reporting Units: mg/L

Date Prepared: 11/19/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	175	250	445	108	80-120	

Lab Batch #: 955584

Date Analyzed: 11/15/2014

QC- Sample ID: 497047-001 S

Reporting Units: mg/L

Date Prepared: 11/14/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	85.7	87	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.7	108	109	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 497047

Project ID: 073018

Lab Batch ID: 955548

QC- Sample ID: 497047-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/14/2014

Date Prepared: 11/13/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.0825	83	0.100	0.0790	79	4	70-125	25	
Toluene	<0.00100	0.100	0.0862	86	0.100	0.0825	83	4	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0886	89	0.100	0.0853	85	4	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.182	91	0.200	0.175	88	4	70-131	25	
o-Xylene	<0.000700	0.100	0.0898	90	0.100	0.0864	86	4	71-133	25	

Lab Batch ID: 955668

QC- Sample ID: 497047-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/12/2014

Date Prepared: 11/12/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	<0.00500	0.200	0.204	102	0.200	0.203	102	0	80-120	20	

Lab Batch ID: 955663

QC- Sample ID: 497047-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/19/2014

Date Prepared: 11/17/2014

Analyst: DAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic <11/20/2014 02:22>	0.0125	1.00	1.06	105	1.00	1.04	103	2	75-125	20	
Chromium	0.00368	1.00	1.02	102	1.00	1.01	101	1	75-125	20	
Iron	<0.0283	5.00	4.28	86	5.00	4.27	85	0	75-125	20	
Manganese	<0.00316	1.00	0.867	87	1.00	0.866	87	0	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 497047

Lab Batch #: 955749

Project ID: 073018

Date Analyzed: 11/18/2014 12:00

Date Prepared: 11/18/2014

Analyst: JUM

QC- Sample ID: 496992-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	88100	87800	0	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



Service Center - San Antonio, Texas (210-509-3334)

Lakeland, Florida (863-646-8526)

[illegible]



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 11/12/2014 04:30:00 PM

Work Order #: 497047

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/13/2014

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/13/2014

Analytical Report 497123

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

20-NOV-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



20-NOV-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **497123**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 497123. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 497123 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-16A-111314	W	11-13-14 09:20		497123-001
MW-79SA-111314	W	11-13-14 10:25		497123-002
MW-67SA-111314	W	11-13-14 11:50		497123-003
MW-78SA-111314	W	11-13-14 12:40		497123-004
MW-21A-111314	W	11-13-14 14:45		497123-005
MW-56SA-111314	W	11-13-14 16:10		497123-006
TRIP BLANK	W	11-13-14 00:00		497123-007



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018

Work Order Number(s): 497123

Report Date: 20-NOV-14

Date Received: 11/13/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Samples taken on New Mexico time. Time entered in LIMS is Texas time

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-16A-111314**

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-001

Date Collected: 11.13.14 09.20

Date Received: 11.13.14 16.33

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.19.14 15.06

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	262	20.0	0.560	mg/L	11.19.14 15:06		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955867

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1010	5.00	5.00	mg/L	11.19.14 14:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.19.14 21:28	U	1
Chromium	7440-47-3	0.000983	0.0100	0.000811	mg/L	11.19.14 21:28	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 21:28	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 21:28	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955675

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.14.14 09:15	U	1



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-16A-111314**

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-001

Date Collected: 11.13.14 09.20

Date Received: 11.13.14 16.33

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.15.14 14:57	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.15.14 14:57	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.15.14 14:57	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.15.14 14:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	89	70 - 135	%		
o-Terphenyl	98	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955553

Date Prep: 11.14.14 16.00

Prep seq: 664546

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.15.14 11:43	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.15.14 11:43	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.15.14 11:43	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.15.14 11:43	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.15.14 11:43	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.15.14 11:43	U	
Total BTEX		ND		0.000700	mg/L	11.15.14 11:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-79SA-111314**

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-002

Date Collected: 11.13.14 10.25

Date Received: 11.13.14 16.33

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.19.14 15.52

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	365	50.0	1.40	mg/L	11.19.14 15:52		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955867

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1430	5.00	5.00	mg/L	11.19.14 14:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0189	0.0200	0.00550	mg/L	11.19.14 21:48	J	1
Chromium	7440-47-3	0.00100	0.0100	0.000811	mg/L	11.19.14 21:48	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 21:48	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 21:48	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955675

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.14.14 09:15	U	1



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-79SA-111314

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-002

Date Collected: 11.13.14 10.25

Date Received: 11.13.14 16.33

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 15:20	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 15:20	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 15:20	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 15:20	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	96	70 - 135	%		
o-Terphenyl	105	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955553

Date Prep: 11.14.14 16.00

Prep seq: 664546

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.15.14 05:26	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.15.14 05:26	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.15.14 05:26	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.15.14 05:26	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.15.14 05:26	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.15.14 05:26	U	
Total BTEX		ND		0.000700	mg/L	11.15.14 05:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	87	80 - 120	%		
4-Bromofluorobenzene	86	80 - 120	%		



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-67SA-111314

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-003

Date Collected: 11.13.14 11.50

Date Received: 11.13.14 16.33

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.19.14 16.44

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	214	20.0	0.560	mg/L	11.19.14 16:44		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955867

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	994	5.00	5.00	mg/L	11.19.14 14:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0165	0.0200	0.00550	mg/L	11.19.14 21:54	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 21:54	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 21:54	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 21:54	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955675

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.14.14 09:15	U	1



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-67SA-111314

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-003

Date Collected: 11.13.14 11.50

Date Received: 11.13.14 16.33

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 16:30	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 16:30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 16:30	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 16:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	87	70 - 135	%		
o-Terphenyl	97	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955553

Date Prep: 11.14.14 16.00

Prep seq: 664546

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.15.14 05:42	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.15.14 05:42	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.15.14 05:42	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.15.14 05:42	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.15.14 05:42	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.15.14 05:42	U	
Total BTEX		ND		0.000700	mg/L	11.15.14 05:42	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-78SA-111314

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-004

Date Collected: 11.13.14 12.40

Date Received: 11.13.14 16.33

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.19.14 19.11

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	155	20.0	0.560	mg/L	11.19.14 19:11		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955867

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	840	5.00	5.00	mg/L	11.19.14 14:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0227	0.0200	0.00550	mg/L	11.19.14 22:20		1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 22:20	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 22:20	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 22:20	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955675

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.14.14 09:15	U	1



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-78SA-111314

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-004

Date Collected: 11.13.14 12.40

Date Received: 11.13.14 16.33

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 16:54	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 16:54	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 16:54	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 16:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	111	70 - 135	%		
o-Terphenyl	124	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955553

Date Prep: 11.14.14 16.00

Prep seq: 664546

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.15.14 05:58	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.15.14 05:58	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.15.14 05:58	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.15.14 05:58	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.15.14 05:58	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.15.14 05:58	U	
Total BTEX		ND		0.000700	mg/L	11.15.14 05:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	96	80 - 120	%		



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **MW-21A-111314**

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-005

Date Collected: 11.13.14 14.45

Date Received: 11.13.14 16.33

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.19.14 19.34

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	2280	200	5.60	mg/L	11.19.14 19:34		200

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955867

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	5570	5.00	5.00	mg/L	11.19.14 14:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0139	0.0200	0.00550	mg/L	11.19.14 22:27	J	1
Chromium	7440-47-3	0.00655	0.0100	0.000811	mg/L	11.19.14 22:27	J	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 22:27	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 22:27	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955675

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.14.14 09:15	U	1



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-21A-111314

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-005

Date Collected: 11.13.14 14.45

Date Received: 11.13.14 16.33

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 17:17	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 17:17	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 17:17	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 17:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	106	70 - 135	%		
o-Terphenyl	117	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955553

Date Prep: 11.14.14 16.00

Prep seq: 664546

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.15.14 06:14	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.15.14 06:14	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.15.14 06:14	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.15.14 06:14	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.15.14 06:14	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.15.14 06:14	U	
Total BTEX		ND		0.000700	mg/L	11.15.14 06:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	97	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-56SA-111314

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-006

Date Collected: 11.13.14 16.10

Date Received: 11.13.14 16.33

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.19.14 19.56

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	1120	100	2.80	mg/L	11.19.14 19:56		100

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955867

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	3820	5.00	5.00	mg/L	11.19.14 14:00		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0227	0.0200	0.00550	mg/L	11.19.14 22:34		1
Chromium	7440-47-3	0.336	0.0100	0.000811	mg/L	11.19.14 22:34		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 22:34	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 22:34	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955675

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.343	0.0100	0.00500	mg/L	11.14.14 09:15		1



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-56SA-111314

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-006

Date Collected: 11.13.14 16.10

Date Received: 11.13.14 16.33

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.15.14 17:39	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.15.14 17:39	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.15.14 17:39	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.15.14 17:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	96	70 - 135	%		
o-Terphenyl	104	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955553

Date Prep: 11.14.14 16.00

Prep seq: 664546

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.15.14 06:31	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.15.14 06:31	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.15.14 06:31	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.15.14 06:31	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.15.14 06:31	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.15.14 06:31	U	
Total BTEX		ND		0.000700	mg/L	11.15.14 06:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	99	80 - 120	%		



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 497123-007

Date Collected: 11.13.14 00.00

Date Received: 11.13.14 16.33

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955553

Date Prep: 11.14.14 16.00

Prep seq: 664546

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.15.14 11:26	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.15.14 11:26	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.15.14 11:26	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.15.14 11:26	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.15.14 11:26	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.15.14 11:26	U	
Total BTEX		ND		0.000700	mg/L	11.15.14 11:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664546-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664546-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955553

Date Prep: 11.14.14 16.00

Prep seq: 664546

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.15.14 02:28	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.15.14 02:28	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.15.14 02:28	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.15.14 02:28	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.15.14 02:28	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	97	80 - 120	%		
4-Bromofluorobenzene	97	80 - 120	%		

Sample Id: 664559-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664559-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955584

Date Prep: 11.14.14 16.00

Prep seq: 664559

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.50	0.988	mg/L	11.15.14 10:28	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.50	0.988	mg/L	11.15.14 10:28	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.50	0.988	mg/L	11.15.14 10:28	U	1
Total TPH	PHC635	ND		0.988	mg/L	11.15.14 10:28	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	114	70 - 135	%		



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **664592-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 664592-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.19.14 21:15	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 21:15	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 21:15	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 21:15	U	1

Sample Id: **664657-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 664657-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.19.14 13.58

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.19.14 13:58	U	1

Sample Id: **955675-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 955675-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955675

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.14.14 09:15	U	1



Certificate of Analytical Results

497123



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **955867-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 955867-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955867

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	11.19.14 14:00	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(770) 449-8800	(770) 449-5477
(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 497123,

Project ID: 073018

Lab Batch #: 955553

Sample: 664546-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 11/15/14 02:28	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0290	0.0300	97	80-120
4-Bromofluorobenzene		0.0292	0.0300	97	80-120

Lab Batch #: 955553

Sample: 664546-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 11/15/14 02:44	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0314	0.0300	105	80-120
4-Bromofluorobenzene		0.0326	0.0300	109	80-120

Lab Batch #: 955553

Sample: 664546-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 11/15/14 03:01	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0312	0.0300	104	80-120
4-Bromofluorobenzene		0.0330	0.0300	110	80-120

Lab Batch #: 955553

Sample: 497055-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 11/15/14 03:17	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0314	0.0300	105	80-120
4-Bromofluorobenzene		0.0331	0.0300	110	80-120

Lab Batch #: 955553

Sample: 497055-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L	Date Analyzed: 11/15/14 03:33	SURROGATE RECOVERY STUDY			
BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1,4-Difluorobenzene		0.0315	0.0300	105	80-120
4-Bromofluorobenzene		0.0337	0.0300	112	80-120

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 497123,

Project ID: 073018

Lab Batch #: 955584

Sample: 664559-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/15/14 10:28

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	10.4	10.0	104	70-135	
o-Terphenyl	5.72	5.00	114	70-135	

Lab Batch #: 955584

Sample: 664559-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/15/14 10:49

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.7	10.0	117	70-135	
o-Terphenyl	6.10	5.00	122	70-135	

Lab Batch #: 955584

Sample: 664559-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/15/14 11:11

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	12.7	10.0	127	70-135	
o-Terphenyl	6.18	5.00	124	70-135	

Lab Batch #: 955584

Sample: 497047-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/15/14 11:53

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	11.5	9.87	117	70-135	
o-Terphenyl	5.53	4.94	112	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Work Order #: 497123

Project ID:

073018

Lab Batch #: 955675

Sample: 955675-1-BKS

Matrix: Water

Date Analyzed: 11/14/2014

Date Prepared: 11/14/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0400	100	80-120	

Lab Batch #: 955829

Sample: 664592-1-BKS

Matrix: Water

Date Analyzed: 11/19/2014

Date Prepared: 11/18/2014

Analyst: DAB

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Arsenic	<0.00550	1.00	1.05	105	80-120	
Chromium	<0.000811	1.00	1.07	107	80-120	
Iron	<0.0283	5.00	5.03	101	80-120	
Manganese	<0.00316	1.00	1.01	101	80-120	

Lab Batch #: 955867

Sample: 955867-1-BKS

Matrix: Water

Date Analyzed: 11/19/2014

Date Prepared: 11/19/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Total dissolved solids	<5.00	1000	1140	114	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 497123

Project ID: 073018

Analyst: ARM

Date Prepared: 11/14/2014

Date Analyzed: 11/15/2014

Lab Batch ID: 955553

Sample: 664546-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0868	87	0.100	0.0859	86	1	70-125	25	
Toluene	<0.00100	0.100	0.0916	92	0.100	0.0907	91	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0954	95	0.100	0.0944	94	1	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.196	98	0.200	0.194	97	1	70-131	25	
o-Xylene	<0.000700	0.100	0.0948	95	0.100	0.0944	94	0	71-133	25	

Analyst: JUM

Date Prepared: 11/19/2014

Date Analyzed: 11/19/2014

Lab Batch ID: 955839

Sample: 664657-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	26.8	107	25.0	22.6	90	17	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 497123

Project ID: 073018

Analyst: ARM

Date Prepared: 11/14/2014

Date Analyzed: 11/15/2014

Lab Batch ID: 955584

Sample: 664559-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.988	100	82.4	82	100	86.2	86	5	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.988	100	103	103	100	106	106	3	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 497123

Lab Batch #: 955839

Date Analyzed: 11/19/2014

QC- Sample ID: 497123-001 S

Reporting Units: mg/L

Date Prepared: 11/19/2014

Batch #: 1

Project ID: 073018

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	262	500	716	91	80-120	

Lab Batch #: 955839

Date Analyzed: 11/19/2014

QC- Sample ID: 497144-001 S

Reporting Units: mg/L

Date Prepared: 11/19/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	10500	5000	15400	98	80-120	

Lab Batch #: 955584

Date Analyzed: 11/15/2014

QC- Sample ID: 497047-001 S

Reporting Units: mg/L

Date Prepared: 11/14/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.976	98.7	85.7	87	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.976	98.7	108	109	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order # : 497123

Project ID: 073018

Lab Batch ID: 955553

QC- Sample ID: 497055-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/15/2014

Date Prepared: 11/14/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0870	87	0.100	0.0879	88	1	70-125	25	
Toluene	<0.00100	0.100	0.0919	92	0.100	0.0924	92	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.0967	97	0.100	0.0963	96	0	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.199	100	0.200	0.198	99	1	70-131	25	
o-Xylene	<0.000700	0.100	0.0963	96	0.100	0.0963	96	0	71-133	25	

Lab Batch ID: 955675

QC- Sample ID: 497123-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/14/2014

Date Prepared: 11/14/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Hexavalent Chromium	<0.00500	0.200	0.182	91	0.200	0.204	102	11	80-120	20	

Lab Batch ID: 955829

QC- Sample ID: 497123-001 S

Batch #: 1 **Matrix:** Water

Date Analyzed: 11/19/2014

Date Prepared: 11/18/2014

Analyst: DAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Arsenic	<0.00550	1.00	1.06	106	1.00	1.05	105	1	75-125	20	
Chromium	0.000983	1.00	1.06	106	1.00	1.06	106	0	75-125	20	
Iron	<0.0283	5.00	4.48	90	5.00	4.51	90	1	75-125	20	
Manganese	<0.00316	1.00	1.02	102	1.00	1.00	100	2	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 497123

Lab Batch #: 955867

Project ID: 073018

Date Analyzed: 11/19/2014 14:00

Date Prepared: 11/19/2014

Analyst: JUM

QC- Sample ID: 497420-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	3490	3400	3	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit



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Tampa, Florida (813-620-2000)

Client / Reporting Information				Project Information				Analytical Information				Matrix Codes			
Company Name / Branch: <i>QEA / Midland</i>				Project Name/Number: <i>073018 / N. Eugene</i>											
Company Address: <i>2355 S. Loop 250W Midland TX 79703</i>				Project Location: <i>Eugene, NM</i>											
Email: <i>Mikolajewski, Crawford</i>				Phone No: <i>32-688-4086</i>				Invoice To: <i>Eugene, NM</i>							
Project Contact: <i>Mike Mikolajewski</i>				PO Number:											
Samplers Name: <i>Justin Nixon</i>															
No.	Field ID / Point of Collection	Sample Depth	Collection Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE	Field Comments
1	<i>Mu-16A - 11319</i>		<i>11/24/14</i>	<i>9:30</i>	<i>W</i>	<i>6</i>	<i>X</i>								<i>BTEX 8021B</i>
2	<i>Mu-16A - 11319</i>														<i>TRM GEO-PRO SW 8015 MOD</i>
3	<i>Mu-16A - 11319</i>														<i>total metals EPA 6010B</i>
4	<i>Mu-16A - 11319</i>														<i>Hex chrome SW 7196 A</i>
5	<i>Mu-21A - 11319</i>														<i>Chlorides E 300.0</i>
6	<i>Mu-56A - 11319</i>														<i>TDS SW 2540C</i>
7	<i>Tip Rock</i>														
8															
9															
10															
Turnaround Time (Business days)															
Data Deliverable Information															
Notes:															
Same Day TAT ☐ 5 Day TAT ☐ Level II Std QC ☐ Level IV (Full Data Pkg / raw data) ☐															
Next Day EMERGENCY ☐ 7 Day TAT ☐ Level III Std QC+ Forms ☐ TRRP Level IV ☐															
2 Day EMERGENCY ☒ Contract TAT ☐ Level 3 (CLP Forms) ☐ UST / RG-411 ☐															
3 Day EMERGENCY ☐ TRRP Checklist ☐															
TAT Starts Day received by Lab, if received by 3:00 pm															
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY															
FED-EX / UPS: Tracking #															
Relinquished by Sampler: <i>[Signature]</i> Date Time: <i>11/24/14 16:31</i> Received By: <i>[Signature]</i> Date Time: <i>11/24/14 16:31</i>															
Relinquished by: <i>[Signature]</i> Date Time: <i>11/24/14 18:05</i> Received By: <i>[Signature]</i> Date Time: <i>11/24/14 16:31</i>															
Relinquished by: <i>[Signature]</i> Date Time: <i>11/24/14 18:05</i> Received By: <i>[Signature]</i> Date Time: <i>11/24/14 16:31</i>															
Custody Seal # <i>4</i> Preserved where applicable ☐ On Ice ☐ Cooler Temp. <i></i> Thermo. Corr. Factor <i></i>															

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to XENCO Laboratories and its affiliates, subcontractors and assigns XENCO's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 11/13/2014 04:33:00 PM

Work Order #: 497123

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	No
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	No
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/14/2014

Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/14/2014

Analytical Report 497192

for

Conestoga Rovers & Associates

Project Manager: Mike Wisniowiecki

N. Eunice/Eunice

073018

21-NOV-14

Collected By: Client



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)

New Jersey (TX007), North Carolina(681), Oklahoma (9218), Pennsylvania (68-03610)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)

Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



21-NOV-14

Project Manager: **Mike Wisniowiecki**

Conestoga Rovers & Associates

2135 S Loop 250 W

Midland, TX 79703

Reference: XENCO Report No(s): **497192**

N. Eunice/Eunice

Project Address: New Mexico

Mike Wisniowiecki:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 497192. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 497192 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America



Sample Cross Reference 497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-53SA-111414	W	11-14-14 09:50		497192-001
MW-54SA-111414	W	11-14-14 11:20		497192-002
WW-48-111414	W	11-14-14 12:10		497192-003
WOODELL-WW-111414	W	11-14-14 13:05		497192-004
DUP-5-111414	W	11-14-14 00:00		497192-005
TRIP BLANK	W	11-14-14 00:00		497192-006



CASE NARRATIVE



Client Name: *Conestoga Rovers & Associates*

Project Name: *N. Eunice/Eunice*

Project ID: 073018

Work Order Number(s): 497192

Report Date: 21-NOV-14

Date Received: 11/14/2014

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:

Samples taken on New Mexico time. Time entered in LIMS is Texas time

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-53SA-111414

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-001

Date Collected: 11.14.14 09.50

Date Received: 11.14.14 16.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.20.14 11.36

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	310	20.0	0.560	mg/L	11.20.14 11:36		20

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955949

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	1330	5.00	5.00	mg/L	11.20.14 11:30		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0167	0.0200	0.00550	mg/L	11.19.14 22:40	J	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 22:40	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 22:40	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 22:40	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955677

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.14.14 17:05	U	1



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-53SA-111414

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-001

Date Collected: 11.14.14 09.50

Date Received: 11.14.14 16.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955710

Date Prep: 11.18.14 14.00

Prep seq: 664627

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.18.14 18:12	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.18.14 18:12	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.18.14 18:12	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.18.14 18:12	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	75	70 - 135	%		
o-Terphenyl	82	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955688

Date Prep: 11.18.14 13.00

Prep seq: 664623

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.18.14 16:38	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.18.14 16:38	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.18.14 16:38	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.18.14 16:38	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.18.14 16:38	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.18.14 16:38	U	
Total BTEX		ND		0.000700	mg/L	11.18.14 16:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-54SA-111414

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-002

Date Collected: 11.14.14 11.20

Date Received: 11.14.14 16.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.19.14 23.43

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	773	50.0	1.40	mg/L	11.19.14 23:43		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955949

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2900	5.00	5.00	mg/L	11.20.14 11:30		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0199	0.0200	0.00550	mg/L	11.19.14 22:47	J	1
Chromium	7440-47-3	0.149	0.0100	0.000811	mg/L	11.19.14 22:47		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 22:47	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 22:47	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955677

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.141	0.0100	0.00500	mg/L	11.14.14 17:05		1



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: MW-54SA-111414

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-002

Date Collected: 11.14.14 11.20

Date Received: 11.14.14 16.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955710

Date Prep: 11.18.14 14.00

Prep seq: 664627

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.18.14 18:57	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.18.14 18:57	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.18.14 18:57	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.18.14 18:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	75	70 - 135	%		
o-Terphenyl	77	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955688

Date Prep: 11.18.14 13.00

Prep seq: 664623

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.18.14 16:54	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.18.14 16:54	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.18.14 16:54	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.18.14 16:54	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.18.14 16:54	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.18.14 16:54	U	
Total BTEX		ND		0.000700	mg/L	11.18.14 16:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	97	80 - 120	%		
4-Bromofluorobenzene	93	80 - 120	%		



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **WW-48-111414**

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-003

Date Collected: 11.14.14 12.10

Date Received: 11.14.14 16.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.20.14 00.06

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	560	50.0	1.40	mg/L	11.20.14 00:06		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955949

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2500	5.00	5.00	mg/L	11.20.14 11:30		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0162	0.0200	0.00550	mg/L	11.19.14 22:53	J	1
Chromium	7440-47-3	0.492	0.0100	0.000811	mg/L	11.19.14 22:53		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 22:53	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 22:53	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955677

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.469	0.0100	0.00500	mg/L	11.14.14 17:05		1



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **WW-48-111414**

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-003

Date Collected: 11.14.14 12.10

Date Received: 11.14.14 16.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955710

Date Prep: 11.18.14 14.00

Prep seq: 664627

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.976	mg/L	11.18.14 19:19	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.976	mg/L	11.18.14 19:19	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.976	mg/L	11.18.14 19:19	U	1
Total TPH	PHC635	ND		0.976	mg/L	11.18.14 19:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	80	70 - 135	%		
o-Terphenyl	88	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955688

Date Prep: 11.18.14 13.00

Prep seq: 664623

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.18.14 17:11	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.18.14 17:11	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.18.14 17:11	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.18.14 17:11	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.18.14 17:11	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.18.14 17:11	U	
Total BTEX		ND		0.000700	mg/L	11.18.14 17:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **WOODELL-WW-111414**

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-004

Date Collected: 11.14.14 13.05

Date Received: 11.14.14 16.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.20.14 00.29

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	558	50.0	1.40	mg/L	11.20.14 00:29		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955949

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2120	5.00	5.00	mg/L	11.20.14 11:30		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0168	0.0200	0.00550	mg/L	11.19.14 23:00	J	1
Chromium	7440-47-3	0.0967	0.0100	0.000811	mg/L	11.19.14 23:00		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 23:00	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 23:00	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955677

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.0638	0.0100	0.00500	mg/L	11.14.14 17:05		1



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **WOODELL-WW-111414**

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-004

Date Collected: 11.14.14 13.05

Date Received: 11.14.14 16.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955710

Date Prep: 11.18.14 14.00

Prep seq: 664627

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.18.14 19:41	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.18.14 19:41	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.18.14 19:41	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.18.14 19:41	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	75	70 - 135	%		
o-Terphenyl	80	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955688

Date Prep: 11.18.14 13.00

Prep seq: 664623

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.18.14 17:48	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.18.14 17:48	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.18.14 17:48	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.18.14 17:48	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.18.14 17:48	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.18.14 17:48	U	
Total BTEX		ND		0.000700	mg/L	11.18.14 17:48	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-5-111414**

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-005

Date Collected: 11.14.14 00.00

Date Received: 11.14.14 16.00

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.20.14 00.52

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	755	50.0	1.40	mg/L	11.20.14 00:52		50

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955949

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	2870	5.00	5.00	mg/L	11.20.14 11:30		1

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	0.0170	0.0200	0.00550	mg/L	11.19.14 23:06	J	1
Chromium	7440-47-3	0.146	0.0100	0.000811	mg/L	11.19.14 23:06		1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 23:06	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 23:06	U	1

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955677

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	0.142	0.0100	0.00500	mg/L	11.14.14 17:05		1



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **DUP-5-111414**

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-005

Date Collected: 11.14.14 00.00

Date Received: 11.14.14 16.00

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955710

Date Prep: 11.18.14 14.00

Prep seq: 664627

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.48	0.975	mg/L	11.18.14 20:03	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.48	0.975	mg/L	11.18.14 20:03	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.48	0.975	mg/L	11.18.14 20:03	U	1
Total TPH	PHC635	ND		0.975	mg/L	11.18.14 20:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	86	70 - 135	%		
o-Terphenyl	97	70 - 135	%		

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955688

Date Prep: 11.18.14 13.00

Prep seq: 664623

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.18.14 18:05	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.18.14 18:05	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.18.14 18:05	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.18.14 18:05	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.18.14 18:05	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.18.14 18:05	U	
Total BTEX		ND		0.000700	mg/L	11.18.14 18:05	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **TRIP BLANK**

Matrix: Water

Sample Depth:

Lab Sample Id: 497192-006

Date Collected: 11.14.14 00.00

Date Received: 11.14.14 16.00

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955688

Date Prep: 11.18.14 13.00

Prep seq: 664623

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.18.14 18:21	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.18.14 18:21	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.18.14 18:21	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.18.14 18:21	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.18.14 18:21	U	1
Total Xylenes	1330-20-7	ND		0.000700	mg/L	11.18.14 18:21	U	
Total BTEX		ND		0.000700	mg/L	11.18.14 18:21	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	92	80 - 120	%		



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664592-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664592-1-BLK

Date Collected:

Date Received:

Analytical Method: Dissolved Metals per ICP by SW846 6010B

Prep Method: 3010A

Analyst: DAB

% Moist:

Tech: DAB

Seq Number: 955829

Date Prep: 11.18.14 17.48

Subcontractor: SUB: E871002

Prep seq: 664592

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Arsenic	7440-38-2	ND	0.0200	0.00550	mg/L	11.19.14 21:15	U	1
Chromium	7440-47-3	ND	0.0100	0.000811	mg/L	11.19.14 21:15	U	1
Iron	7439-89-6	ND	0.200	0.0283	mg/L	11.19.14 21:15	U	1
Manganese	7439-96-5	ND	0.0200	0.00316	mg/L	11.19.14 21:15	U	1

Sample Id: 664623-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664623-1-BLK

Date Collected:

Date Received:

Analytical Method: BTEX by EPA 8021B

Prep Method: 5030B

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955688

Date Prep: 11.18.14 13.00

Prep seq: 664623

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	ND	0.00100	0.000800	mg/L	11.18.14 15:00	U	1
Toluene	108-88-3	ND	0.00200	0.00100	mg/L	11.18.14 15:00	U	1
Ethylbenzene	100-41-4	ND	0.00100	0.000800	mg/L	11.18.14 15:00	U	1
m,p-Xylenes	179601-23-1	ND	0.00200	0.00140	mg/L	11.18.14 15:00	U	1
o-Xylene	95-47-6	ND	0.00100	0.000700	mg/L	11.18.14 15:00	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	98	80 - 120	%		
4-Bromofluorobenzene	95	80 - 120	%		



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: 664627-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664627-1-BLK

Date Collected:

Date Received:

Analytical Method: TPH By SW8015 Mod

Prep Method: 1005

Analyst: ARM

% Moist:

Tech: ARM

Seq Number: 955710

Date Prep: 11.18.14 14.00

Prep seq: 664627

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
C6-C12 Gasoline Range Hydrocarbons	PHC612	ND	1.50	0.988	mg/L	11.18.14 17:01	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1028	ND	1.50	0.988	mg/L	11.18.14 17:01	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	ND	1.50	0.988	mg/L	11.18.14 17:01	U	1
Total TPH	PHC635	ND		0.988	mg/L	11.18.14 17:01	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	85	70 - 135	%		
o-Terphenyl	95	70 - 135	%		

Sample Id: 664657-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 664657-1-BLK

Date Collected:

Date Received:

Analytical Method: Inorganic Anions by EPA 300/300.1

Prep Method: E300P

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955839

Date Prep: 11.19.14 13.58

Prep seq: 664657

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	ND	1.00	0.0280	mg/L	11.19.14 13:58	U	1

Sample Id: 955677-1-BLK

Matrix: Water

Sample Depth:

Lab Sample Id: 955677-1-BLK

Date Collected:

Date Received:

Analytical Method: Chromium, Hexavalent by SW 7196A

Prep Method:

Analyst: WRU

% Moist:

Tech: WRU

Seq Number: 955677

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Hexavalent Chromium	18540-29-9	ND	0.0100	0.00500	mg/L	11.14.14 17:05	U	1



Certificate of Analytical Results

497192



Conestoga Rovers & Associates, Midland, TX

N. Eunice/Eunice

Sample Id: **955949-1-BLK**

Matrix: Water

Sample Depth:

Lab Sample Id: 955949-1-BLK

Date Collected:

Date Received:

Analytical Method: TDS by SM2540C

Prep Method:

Analyst: JUM

% Moist:

Tech: JUM

Seq Number: 955949

Date Prep:

Prep seq:

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Total dissolved solids	TDS	ND	5.00	5.00	mg/L	11.20.14 11:30	U	1

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 497192,

Project ID: 073018

Lab Batch #: 955688

Sample: 664623-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/18/14 15:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0286	0.0300	95	80-120	

Lab Batch #: 955688

Sample: 664623-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/18/14 15:16

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0299	0.0300	100	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

Lab Batch #: 955688

Sample: 664623-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/18/14 15:33

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0312	0.0300	104	80-120	
4-Bromofluorobenzene	0.0313	0.0300	104	80-120	

Lab Batch #: 955688

Sample: 497192-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/18/14 15:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 955688

Sample: 497192-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 11/18/14 16:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: N. Eunice/Eunice

Work Orders : 497192,

Project ID: 073018

Lab Batch #: 955710

Sample: 664627-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/18/14 17:01		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		8.51	10.0	85	70-135
o-Terphenyl		4.76	5.00	95	70-135

Lab Batch #: 955710

Sample: 664627-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/18/14 17:24		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.3	10.0	103	70-135
o-Terphenyl		5.13	5.00	103	70-135

Lab Batch #: 955710

Sample: 664627-1-BSD / BSD

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/18/14 17:48		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		10.4	10.0	104	70-135
o-Terphenyl		5.42	5.00	108	70-135

Lab Batch #: 955710

Sample: 497192-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L Date Analyzed: 11/18/14 18:34		SURROGATE RECOVERY STUDY			
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R
Analytes					
1-Chlorooctane		9.41	9.87	95	70-135
o-Terphenyl		4.53	4.94	92	70-135

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Work Order #: 497192

Project ID:

073018

Lab Batch #: 955677

Sample: 955677-1-BKS

Matrix: Water

Date Analyzed: 11/14/2014

Date Prepared: 11/14/2014

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Hexavalent Chromium	<0.00500	0.0400	0.0419	105	80-120	

Lab Batch #: 955829

Sample: 664592-1-BKS

Matrix: Water

Date Analyzed: 11/19/2014

Date Prepared: 11/18/2014

Analyst: DAB

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Arsenic	<0.00550	1.00	1.05	105	80-120	
Chromium	<0.000811	1.00	1.07	107	80-120	
Iron	<0.0283	5.00	5.03	101	80-120	
Manganese	<0.00316	1.00	1.01	101	80-120	

Lab Batch #: 955949

Sample: 955949-1-BKS

Matrix: Water

Date Analyzed: 11/20/2014

Date Prepared: 11/20/2014

Analyst: JUM

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TDS by SM2540C	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Total dissolved solids	<5.00	1000	1030	103	80-120	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.

BRL - Below Reporting Limit

Project Name: N. Eunice/Eunice

Work Order #: 497192

Project ID: 073018

Analyst: ARM

Date Prepared: 11/18/2014

Date Analyzed: 11/18/2014

Lab Batch ID: 955688

Sample: 664623-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Benzene	<0.000800	0.100	0.0881	88	0.100	0.0891	89	1	70-125	25	
Toluene	<0.00100	0.100	0.0943	94	0.100	0.0952	95	1	70-125	25	
Ethylbenzene	<0.000800	0.100	0.101	101	0.100	0.101	101	0	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.208	104	0.200	0.209	105	0	70-131	25	
o-Xylene	<0.000700	0.100	0.0953	95	0.100	0.0971	97	2	71-133	25	

Analyst: JUM

Date Prepared: 11/19/2014

Date Analyzed: 11/19/2014

Lab Batch ID: 955839

Sample: 664657-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
Chloride	<0.0280	25.0	26.8	107	25.0	22.6	90	17	90-110	20	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



Project Name: N. Eunice/Eunice

Work Order #: 497192

Project ID: 073018

Analyst: ARM

Date Prepared: 11/18/2014

Date Analyzed: 11/18/2014

Lab Batch ID: 955710

Sample: 664627-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	<0.988	100	80.8	81	100	82.5	83	2	70-135	25	
C12-C28 Diesel Range Hydrocarbons	<0.988	100	87.6	88	100	93.0	93	6	70-135	25	

Relative Percent Difference RPD = $200 * |(C-F)/(C+F)|$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: N. Eunice/Eunice



Work Order #: 497192

Lab Batch #: 955839

Date Analyzed: 11/19/2014

QC- Sample ID: 497123-001 S

Reporting Units: mg/L

Date Prepared: 11/19/2014

Batch #: 1

Project ID: 073018

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	262	500	716	91	80-120	

Lab Batch #: 955839

Date Analyzed: 11/19/2014

QC- Sample ID: 497144-001 S

Reporting Units: mg/L

Date Prepared: 11/19/2014

Batch #: 1

Analyst: JUM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	10500	5000	15400	98	80-120	

Lab Batch #: 955710

Date Analyzed: 11/18/2014

QC- Sample ID: 497192-001 S

Reporting Units: mg/L

Date Prepared: 11/18/2014

Batch #: 1

Analyst: ARM

Matrix: Water

MATRIX / MATRIX SPIKE RECOVERY STUDY						
TPH by SW8015 Mod	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
C6-C12 Gasoline Range Hydrocarbons	<0.975	98.7	78.1	79	70-135	
C12-C28 Diesel Range Hydrocarbons	<0.975	98.7	89.6	91	70-135	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries



Project Name: N. Eunice/Eunice

Work Order # : 497192

Project ID: 073018

Lab Batch ID: 955688

QC- Sample ID: 497192-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/18/2014

Date Prepared: 11/18/2014

Analyst: ARM

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.000800	0.100	0.0929	93	0.100	0.0855	86	8	70-125	25	
Toluene	<0.00100	0.100	0.100	100	0.100	0.0917	92	9	70-125	25	
Ethylbenzene	<0.000800	0.100	0.108	108	0.100	0.0975	98	10	71-129	25	
m,p-Xylenes	<0.00140	0.200	0.221	111	0.200	0.200	100	10	70-131	25	
o-Xylene	<0.000700	0.100	0.102	102	0.100	0.0922	92	10	71-133	25	

Lab Batch ID: 955677

QC- Sample ID: 497192-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/14/2014

Date Prepared: 11/14/2014

Analyst: WRU

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chromium, Hexavalent by SW 7196A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Hexavalent Chromium	<0.00500	0.200	0.198	99	0.200	0.200	100	1	80-120	20	

Lab Batch ID: 955829

QC- Sample ID: 497123-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 11/19/2014

Date Prepared: 11/18/2014

Analyst: DAB

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Dissolved Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.00550	1.00	1.06	106	1.00	1.05	105	1	75-125	20	
Chromium	0.000983	1.00	1.06	106	1.00	1.06	106	0	75-125	20	
Iron	<0.0283	5.00	4.48	90	5.00	4.51	90	1	75-125	20	
Manganese	<0.00316	1.00	1.02	102	1.00	1.00	100	2	75-125	20	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \times (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Project Name: N. Eunice/Eunice

Work Order #: 497192

Lab Batch #: 955949

Project ID: 073018

Date Analyzed: 11/20/2014 11:30

Date Prepared: 11/20/2014

Analyst: JUM

QC- Sample ID: 497192-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY

TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	1330	1390	4	10	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
 All Results are based on MDL and validated for QC purposes.
 BRL - Below Reporting Limit

CHAIN OF CUSTODY

Page 1 of 1

Setting the Standard since 1990
Stafford, Texas (281-240-4200)
Dallas, Texas (214-902-0300)
Service Center - San Antonio, Texas (210-509-3334)

www.xenco.com

Odessa, Texas (432-563-1800)	
Norcross, Georgia (770-449-8800)	
Xenco Quote #	Xenco Job #

Lakeland, Florida (863-646-8526)

Tamara Floride (1913-620-2000)

15. 2

Client / Reporting Information						Project Information						Analytical Information						Matrix Codes		
Company Name / Branch:						Project Name/Number:														
Company Address:						Project Location:														
Email:						Invoice To:														
Phone No:																				
Project Contact:						PO Number:														
Sample's Name:																				
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE	Notes:					
1	MW-5 35A - 11/19/14	1/4/14	11:20	W	6	X	BTEX 8021B	X	TPH-GRO-DRO SW 8015 mod	X	Total Metals EPA 6010B	X	Hex Chrome SW 7M6A	X	JDS Sm 2540C	X	Chlorides E300.0			
2	MW-5 48A - 11/19/14																			
3	MW-48 - 11/19/14																			
4	Woodell WW - 11/19/14																			
5	Dip-5 - 11/19/14																			
6	Trip Blank																			
7																				
8																				
9																				
10																				
Turnaround Time (Business days)																				
Data Deliverable Information																				
Same Day TAT																				
Next Day EMERGENCY																				
2 Day EMERGENCY																				
3 Day EMERGENCY																				
TAT Starts Day received by Lab, if received by 3:00 pm																				
FED-EX / UPS: Tracking #																				
Relinquished by Sampler:																				
Relinquished by:																				
Date Time:																				
Received By:																				
Date Time:																				
Custody Seal #																				
Preserved where applicable																				
On Ice																				
Cooler Temp.																				
Thermos Open Factor																				



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In



Client: Conestoga Rovers & Associates

Date/ Time Received: 11/14/2014 04:00:00 PM

Work Order #: 497192

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used :

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	0
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	No
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO ₃ , HCL, H ₂ SO ₄ ? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	Yes
#22 >10 for all samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH?	No

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/14/2014

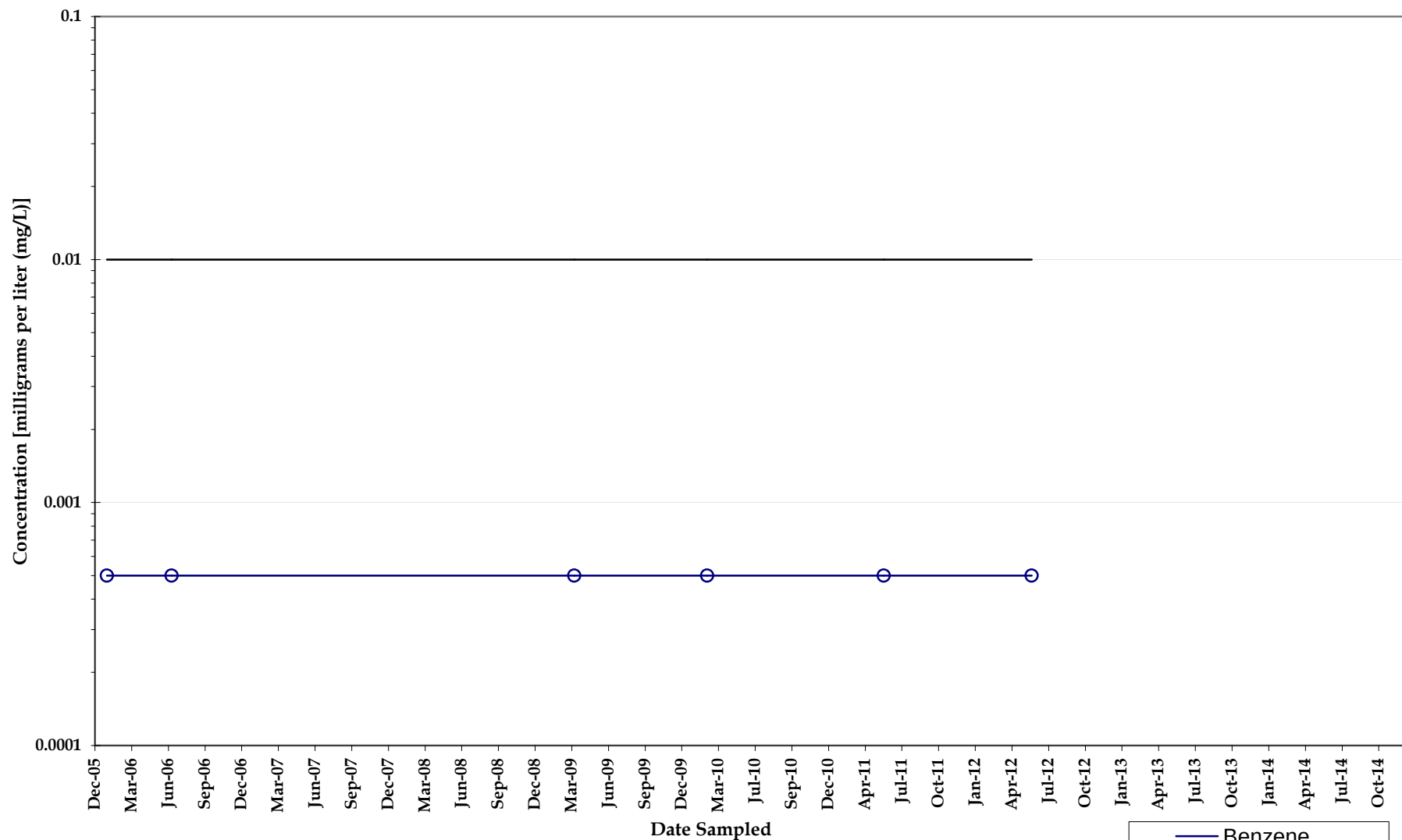
Checklist reviewed by:

Kelsey Brooks
Kelsey Brooks

Date: 11/14/2014

Appendix D

Concentration Through Time Graphs - Benzene, Chromium and Hexavalent Chromium

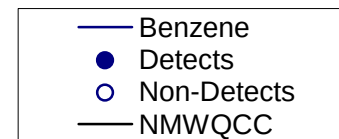
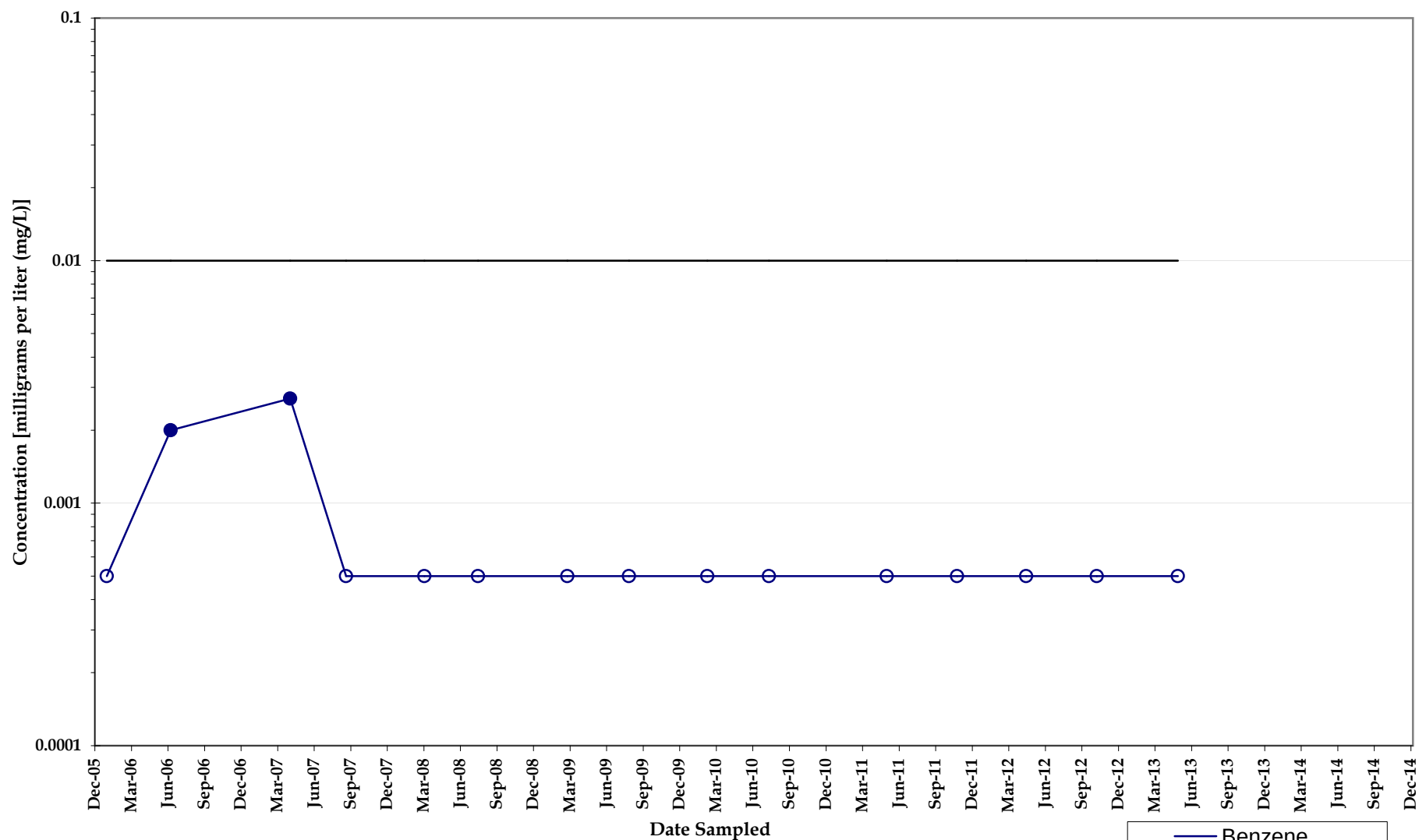


Benzene Concentrations Monitoring Well EPWW1

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

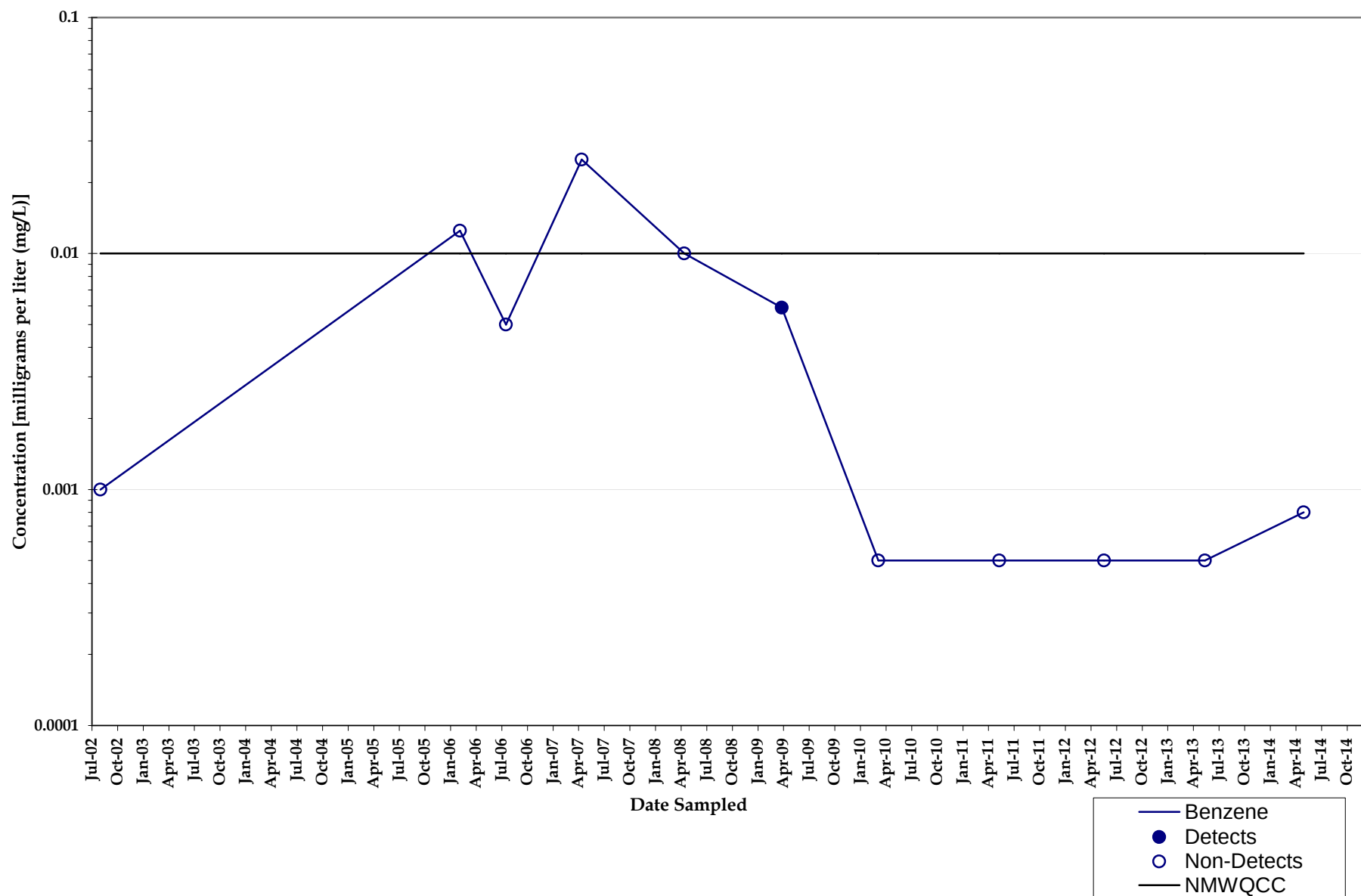


Benzene Concentrations Monitoring Well GOPWW2

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

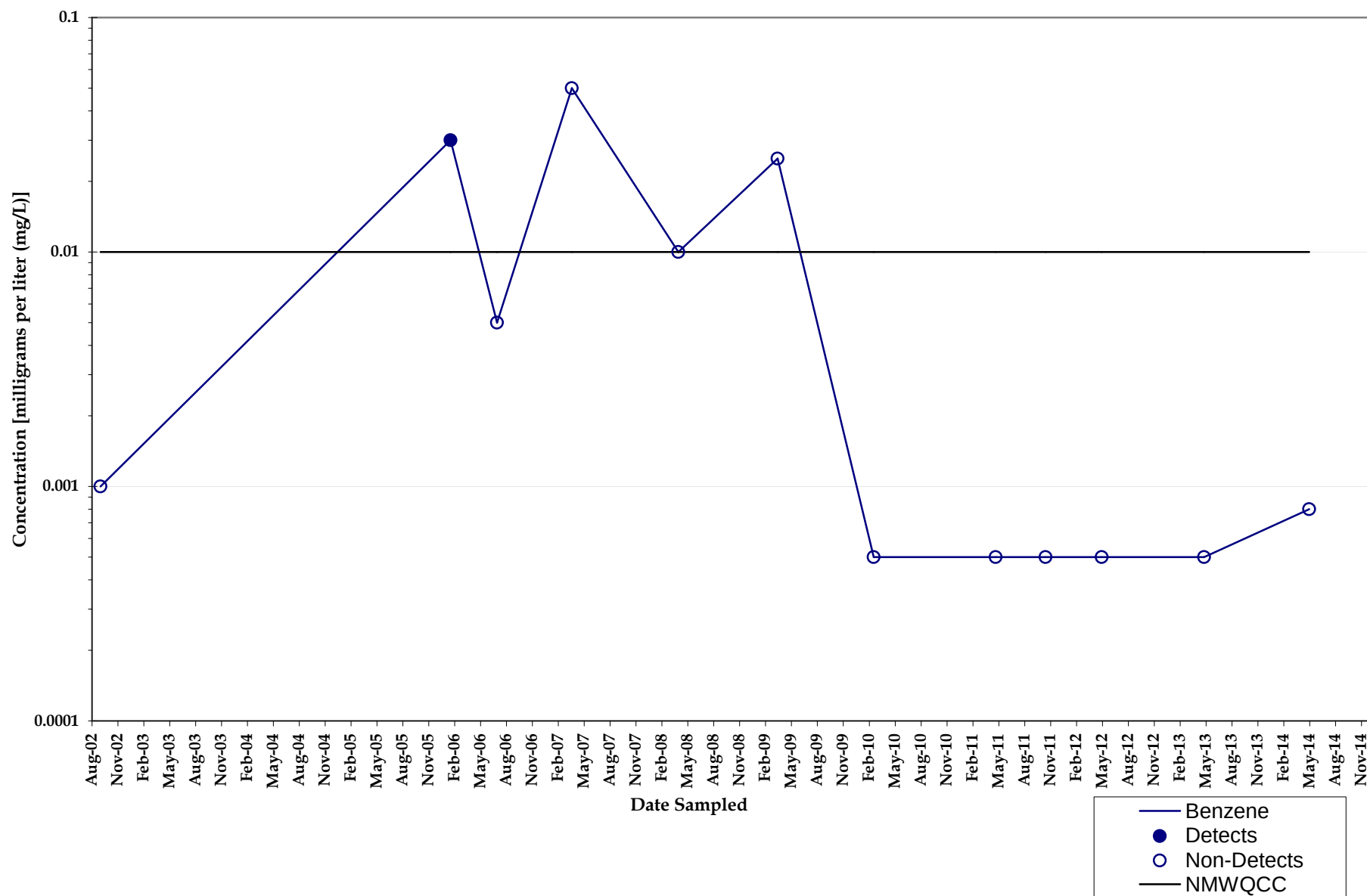


Benzene Concentrations Monitoring Well IW001

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

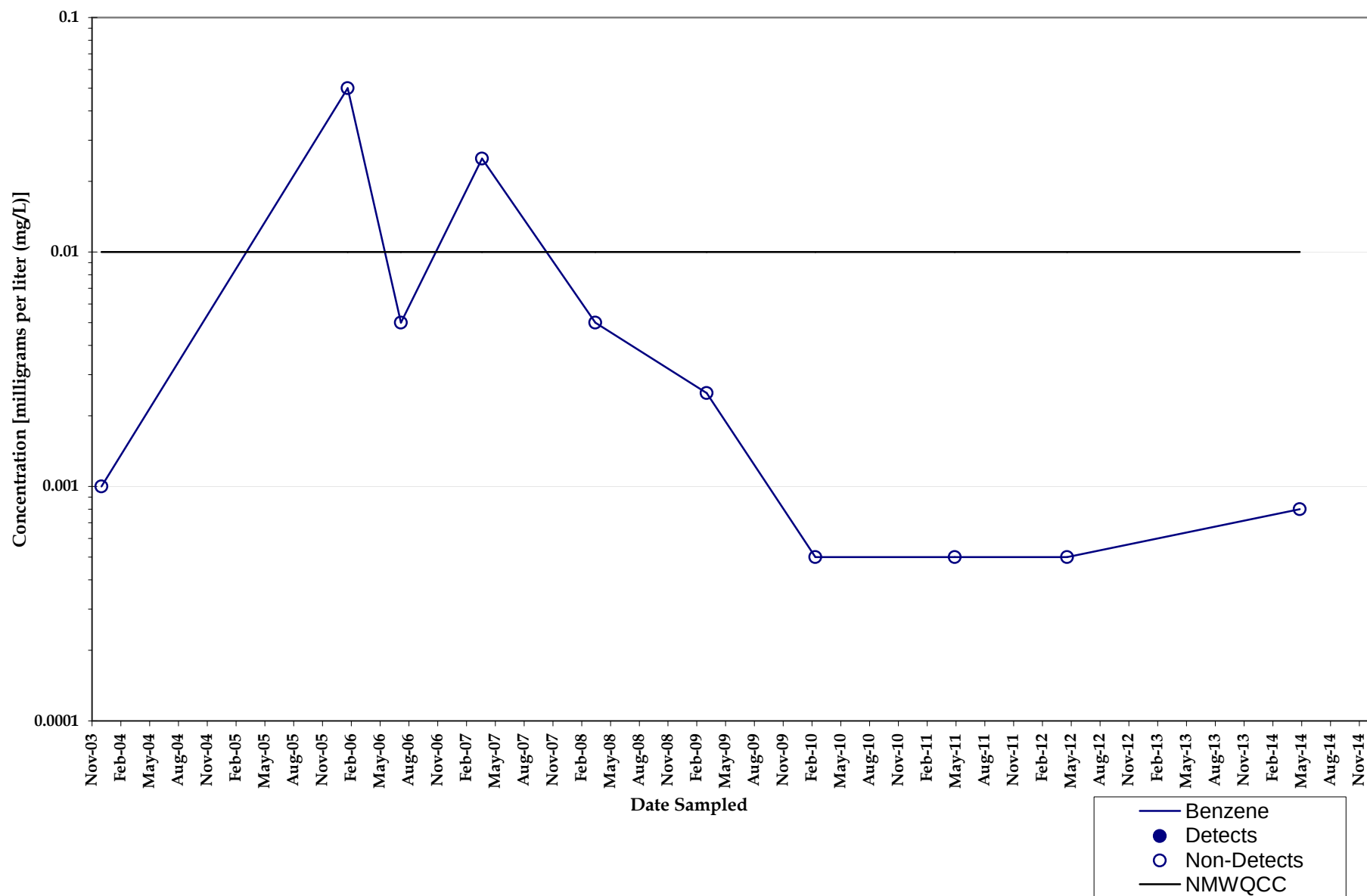


Benzene Concentrations Monitoring Well IW002

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

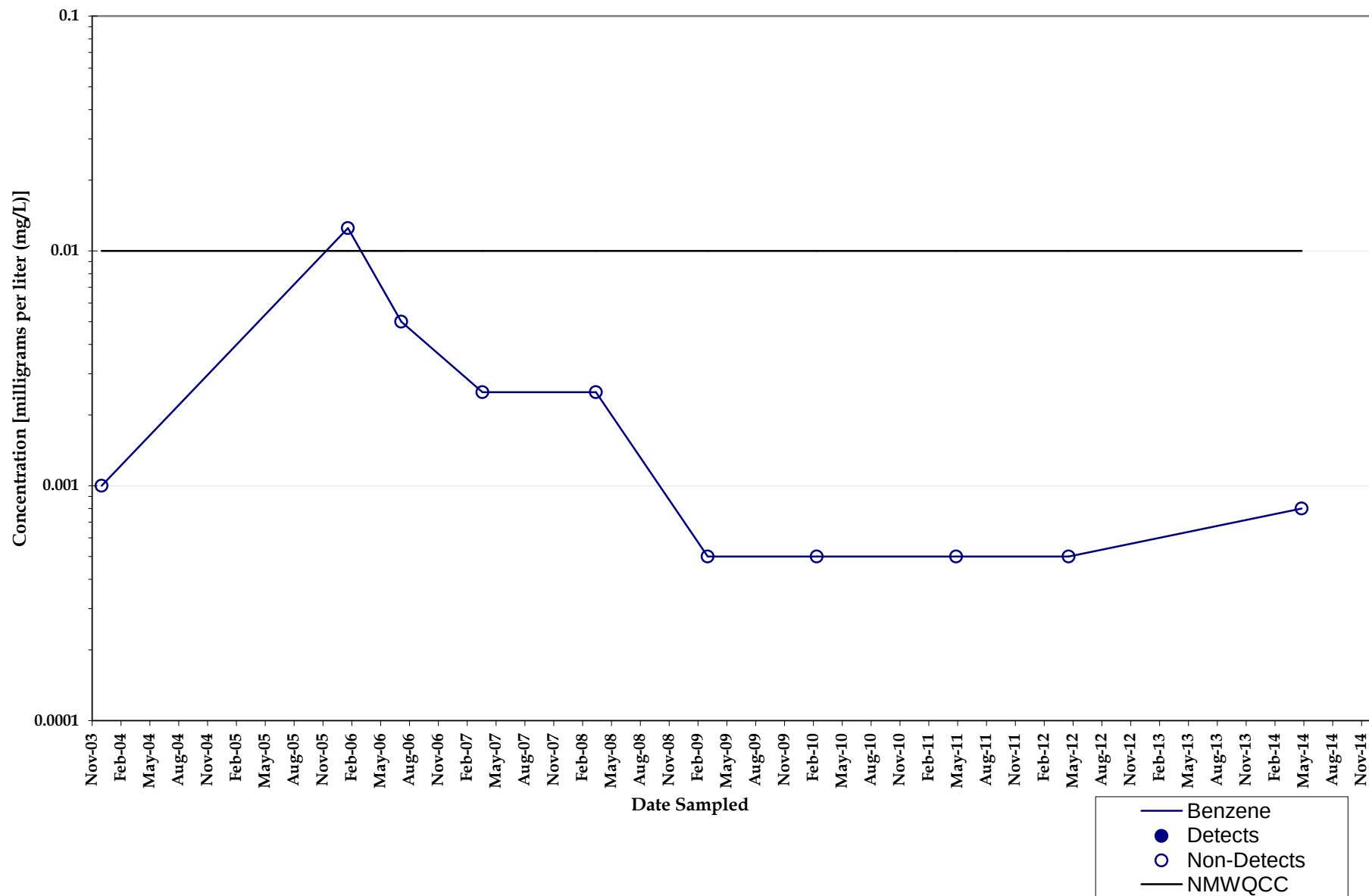


Benzene Concentrations Monitoring Well IW003

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

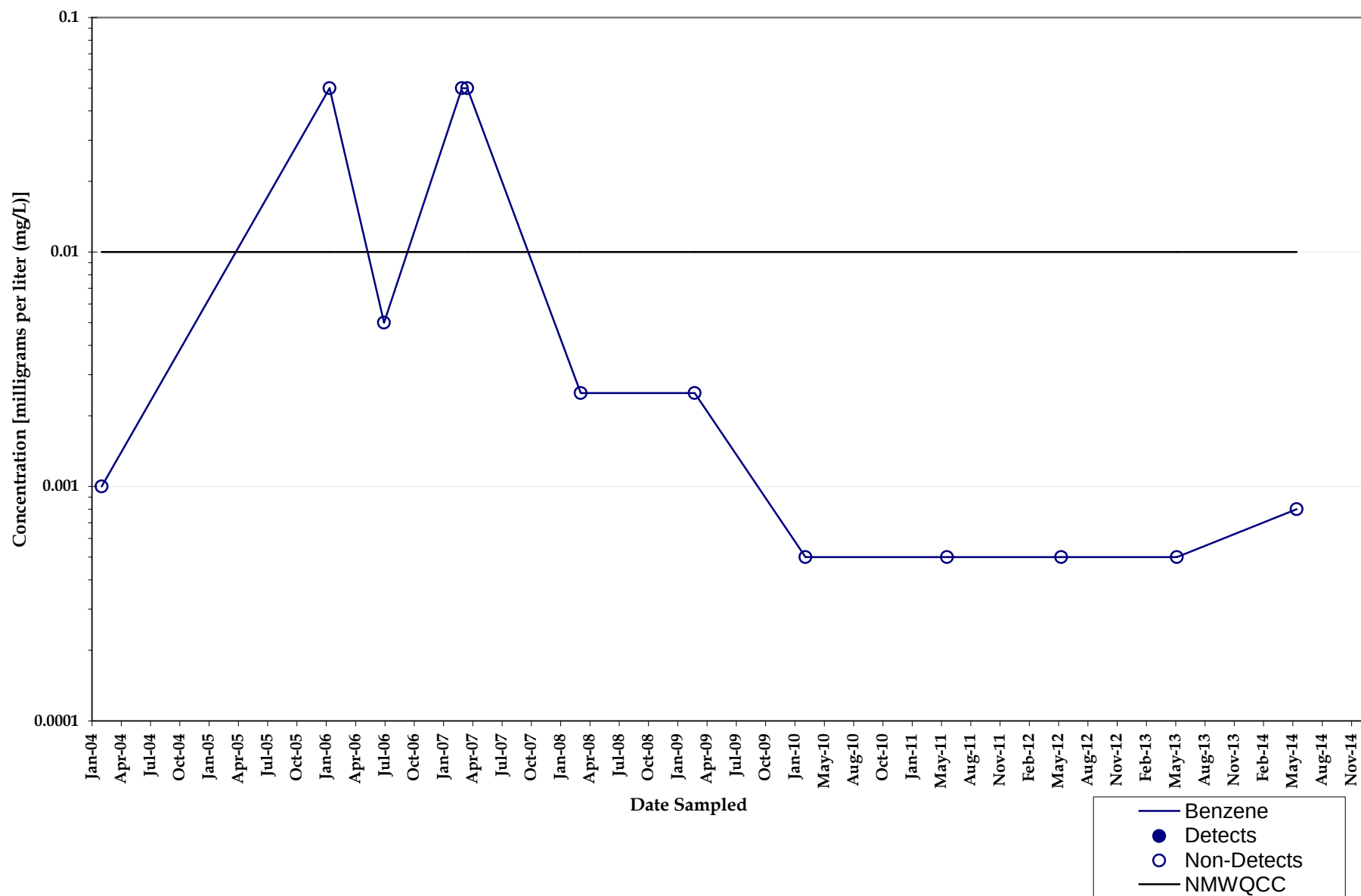


Benzene Concentrations Monitoring Well IW004

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

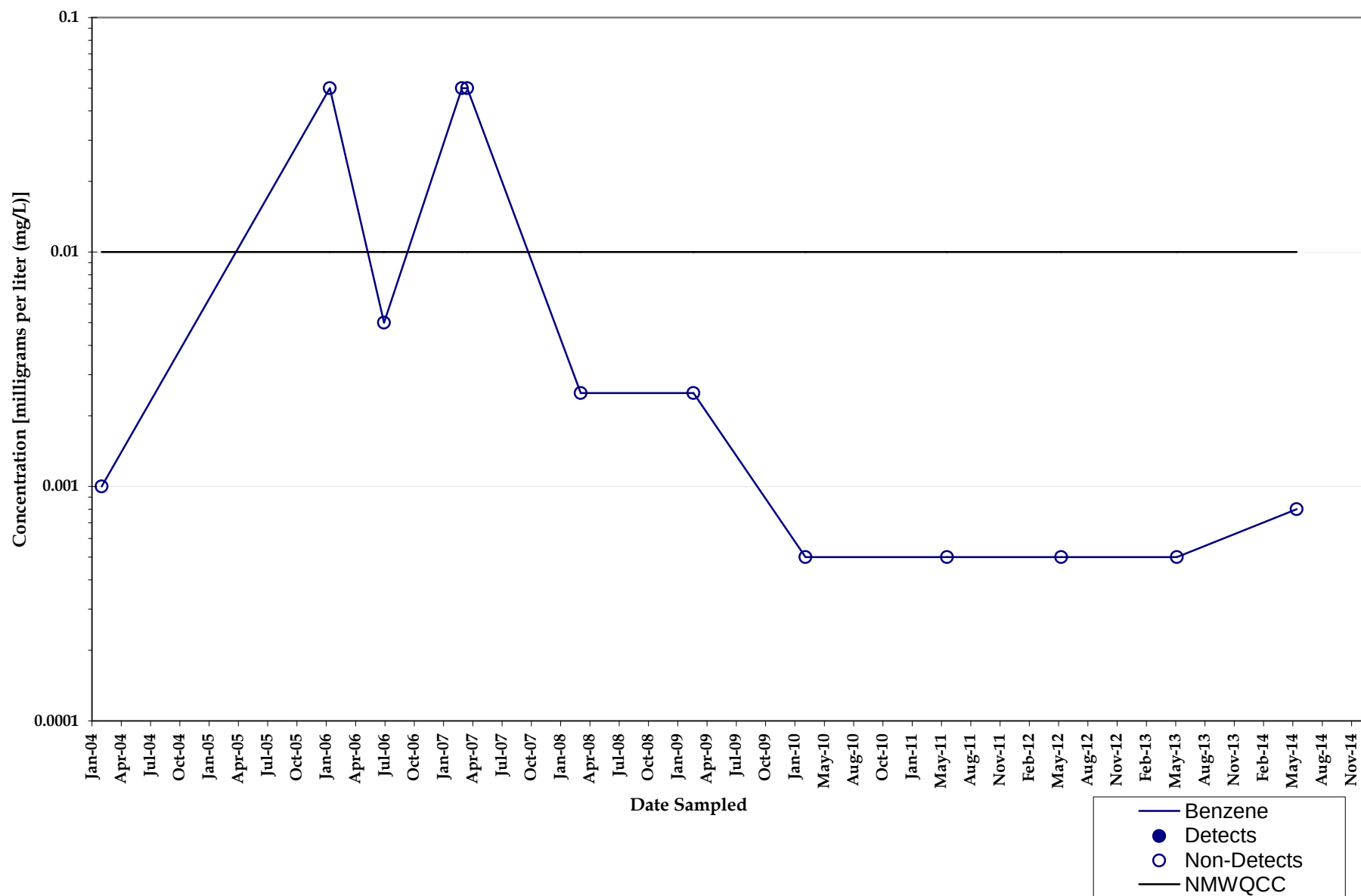


Benzene Concentrations Monitoring Well IW005

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

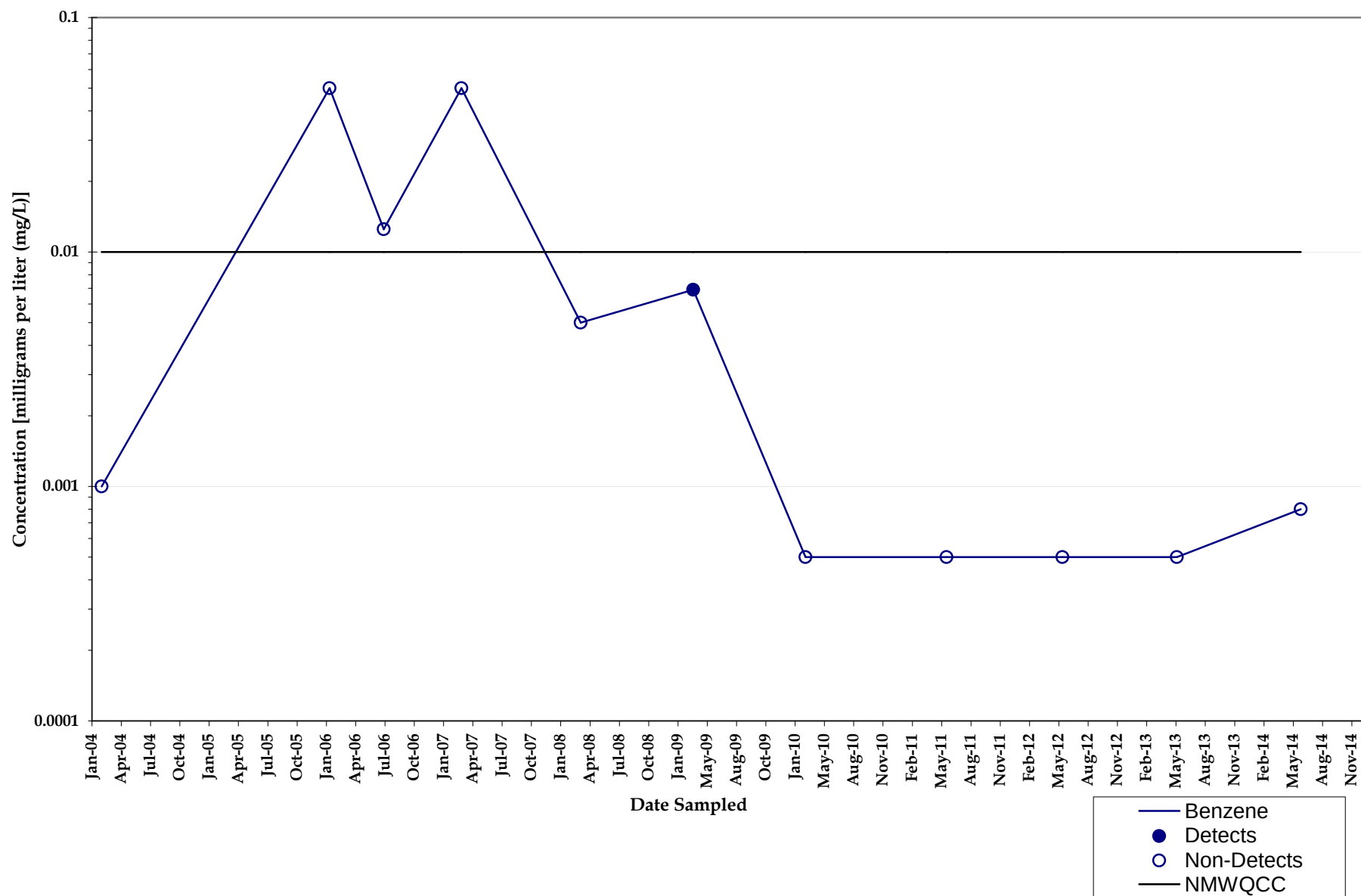


Benzene Concentrations Monitoring Well IW006

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

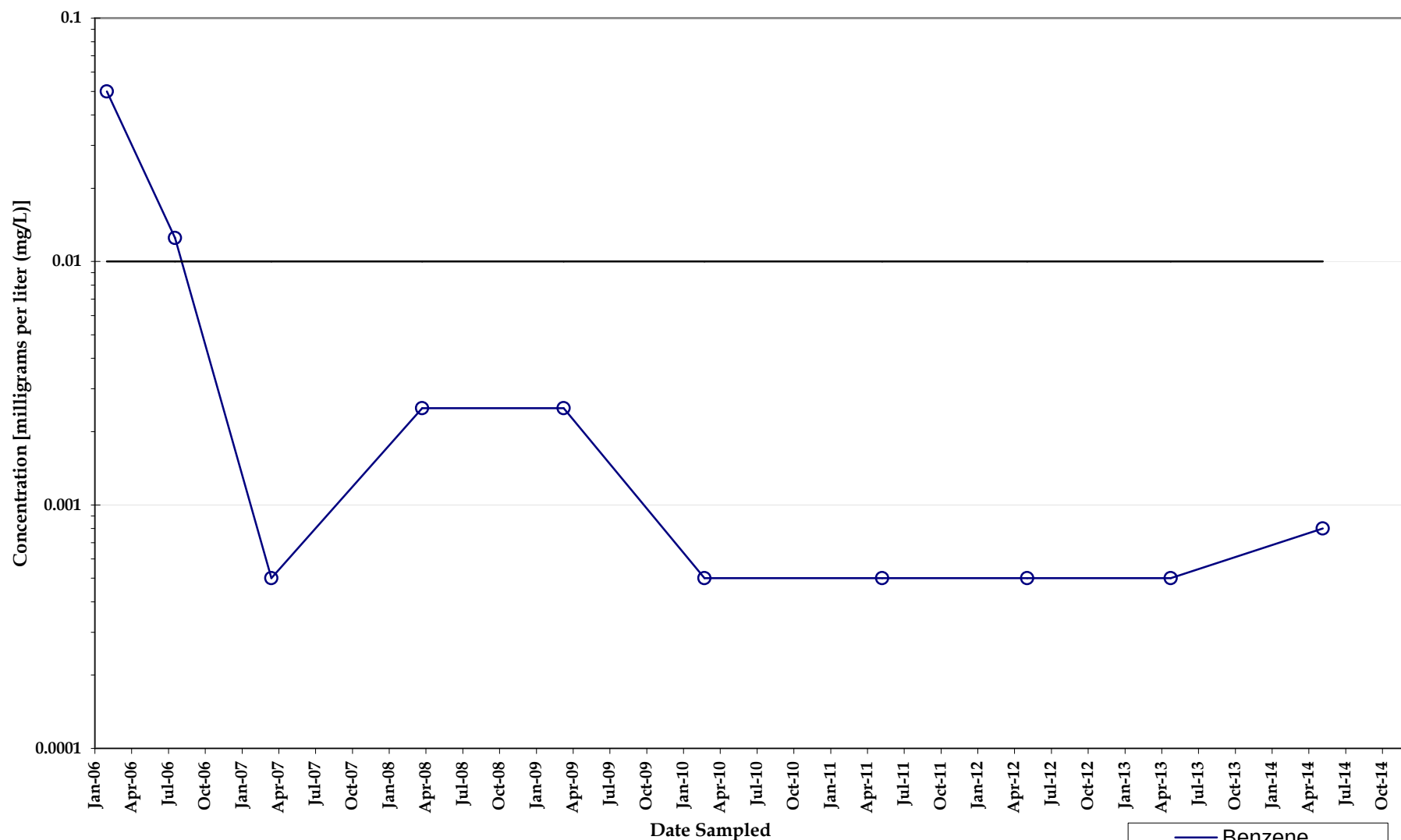


Benzene Concentrations Monitoring Well IW007

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

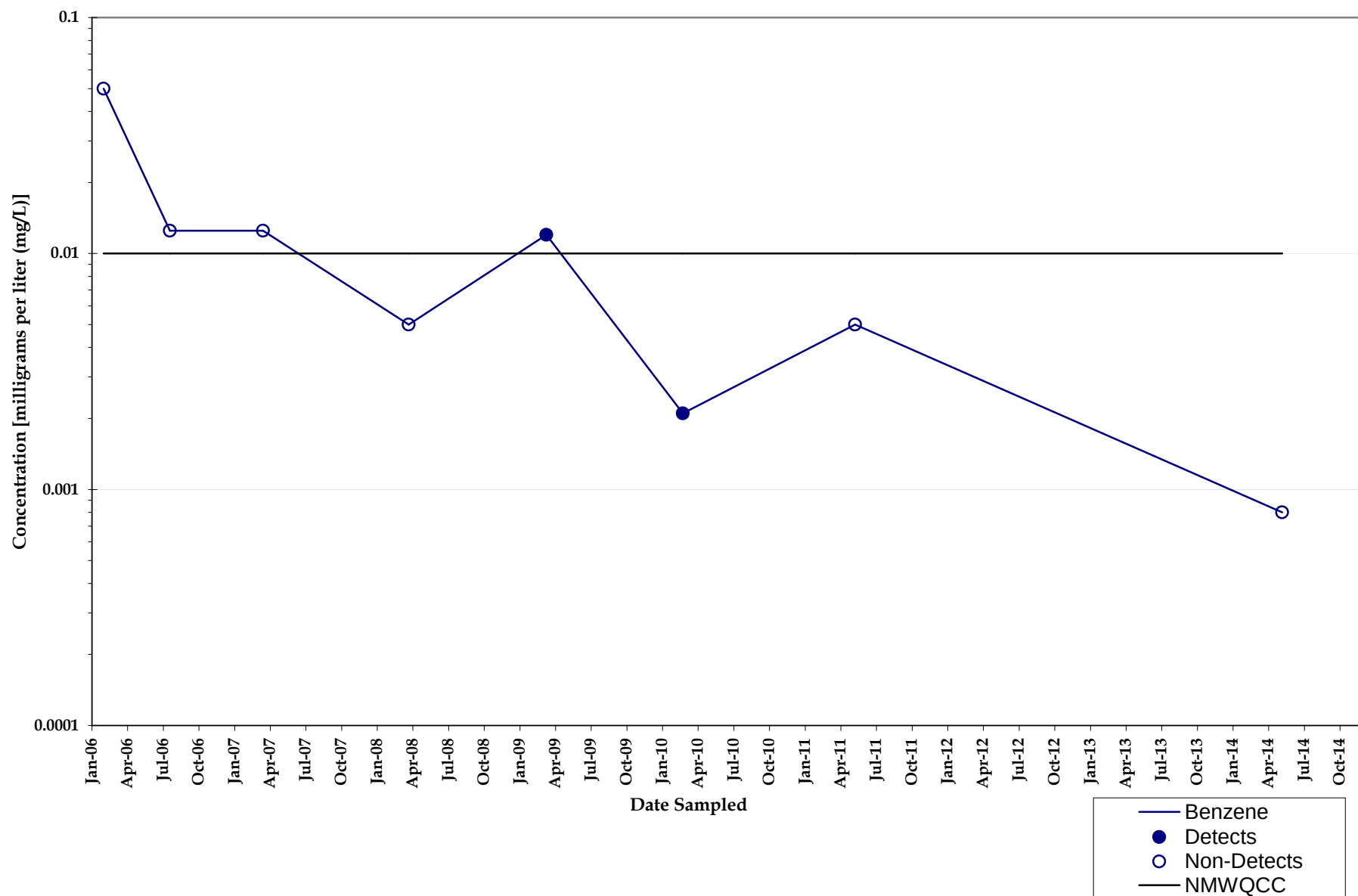


Benzene Concentrations Monitoring Well IW008

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

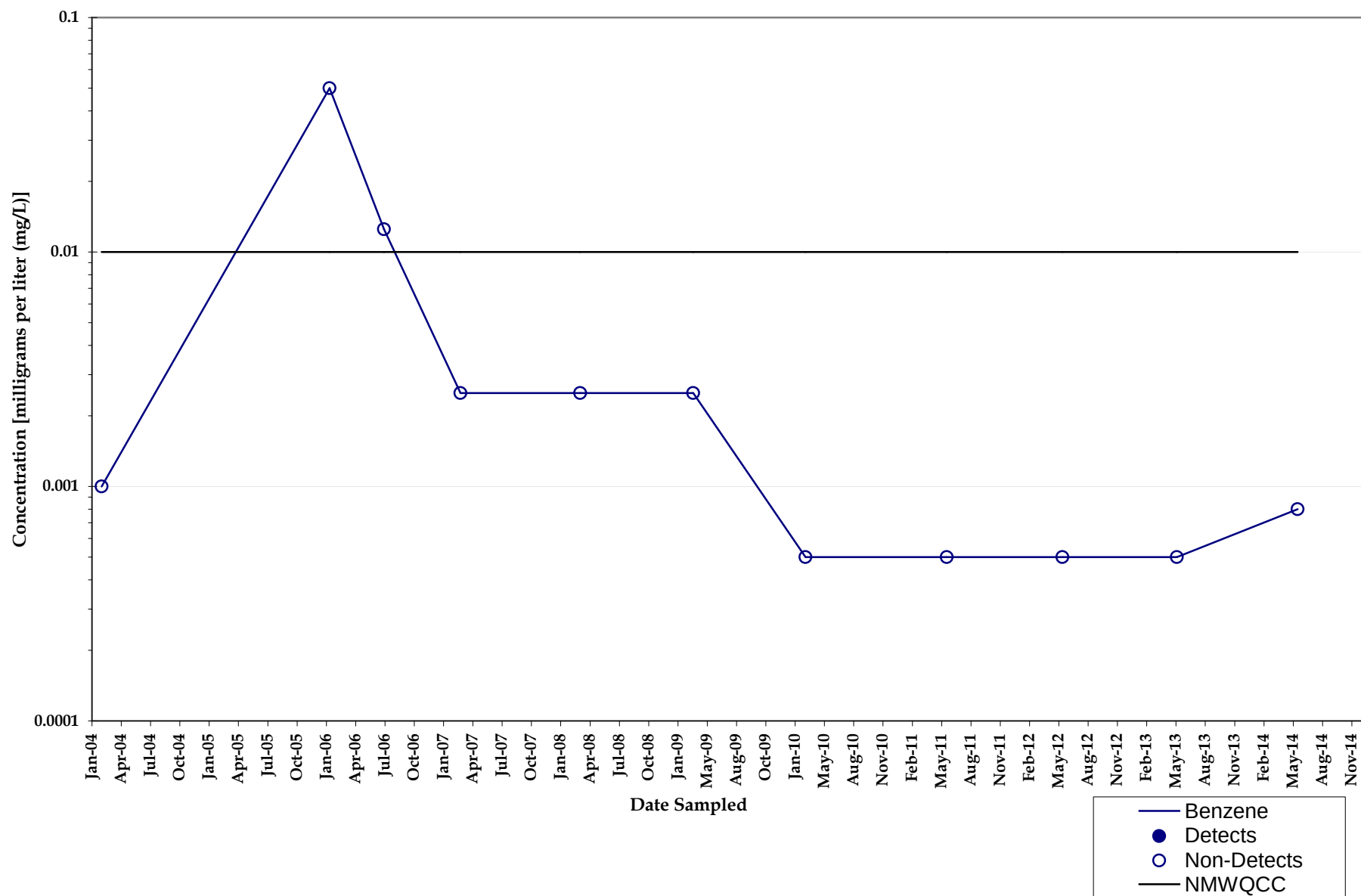


Benzene Concentrations Monitoring Well IW009

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

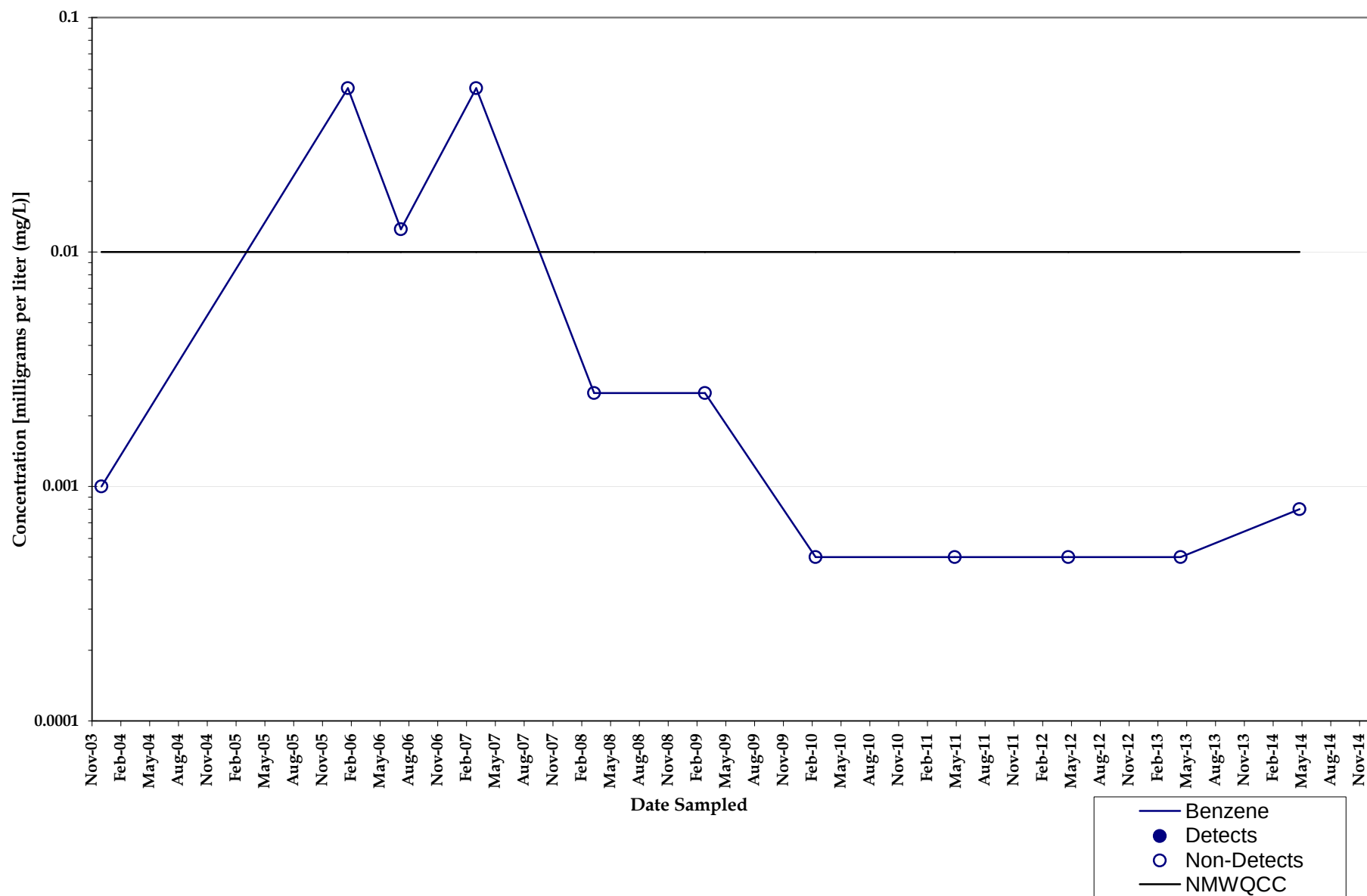


Benzene Concentrations Monitoring Well IW010

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

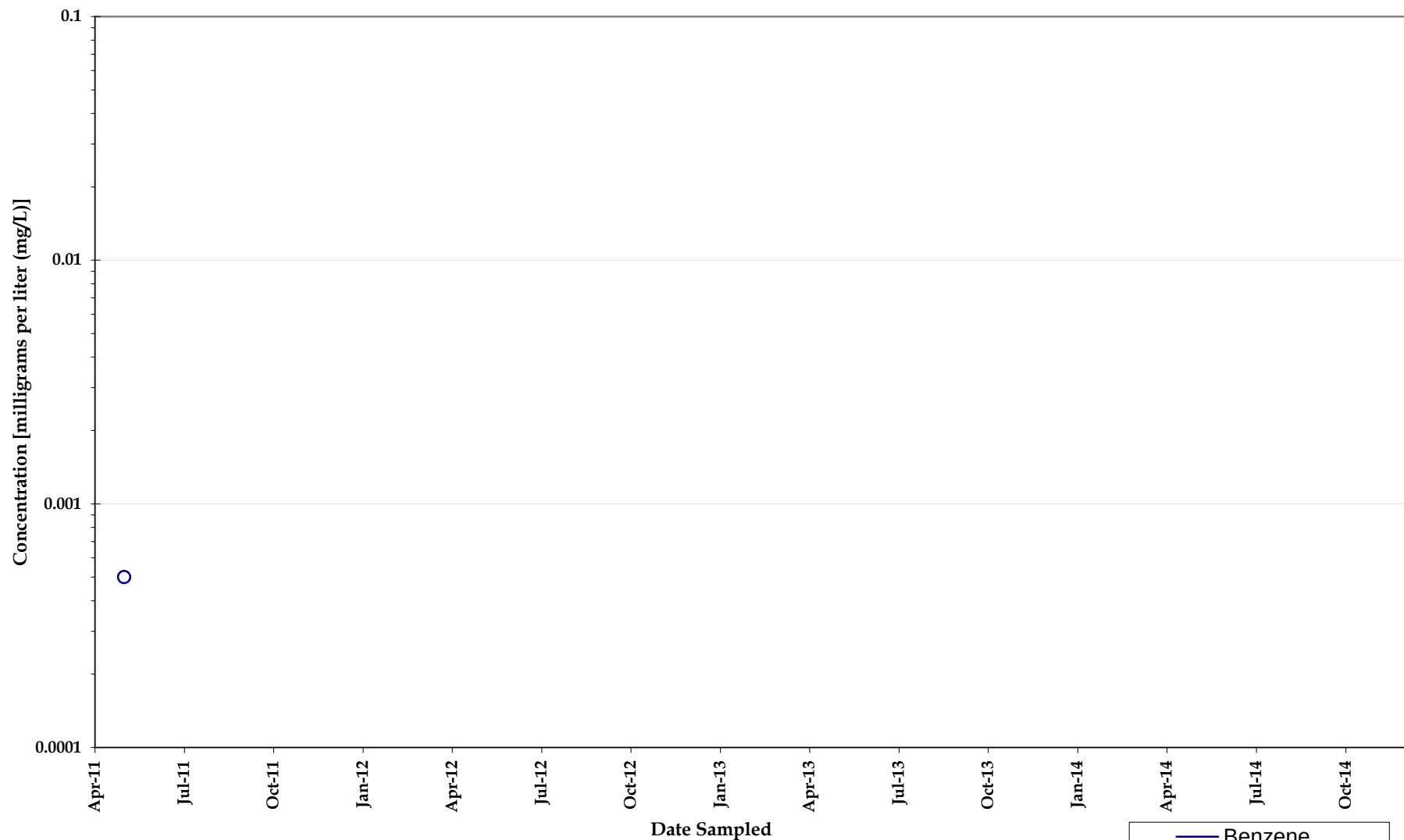


Benzene Concentrations Monitoring Well IW011

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

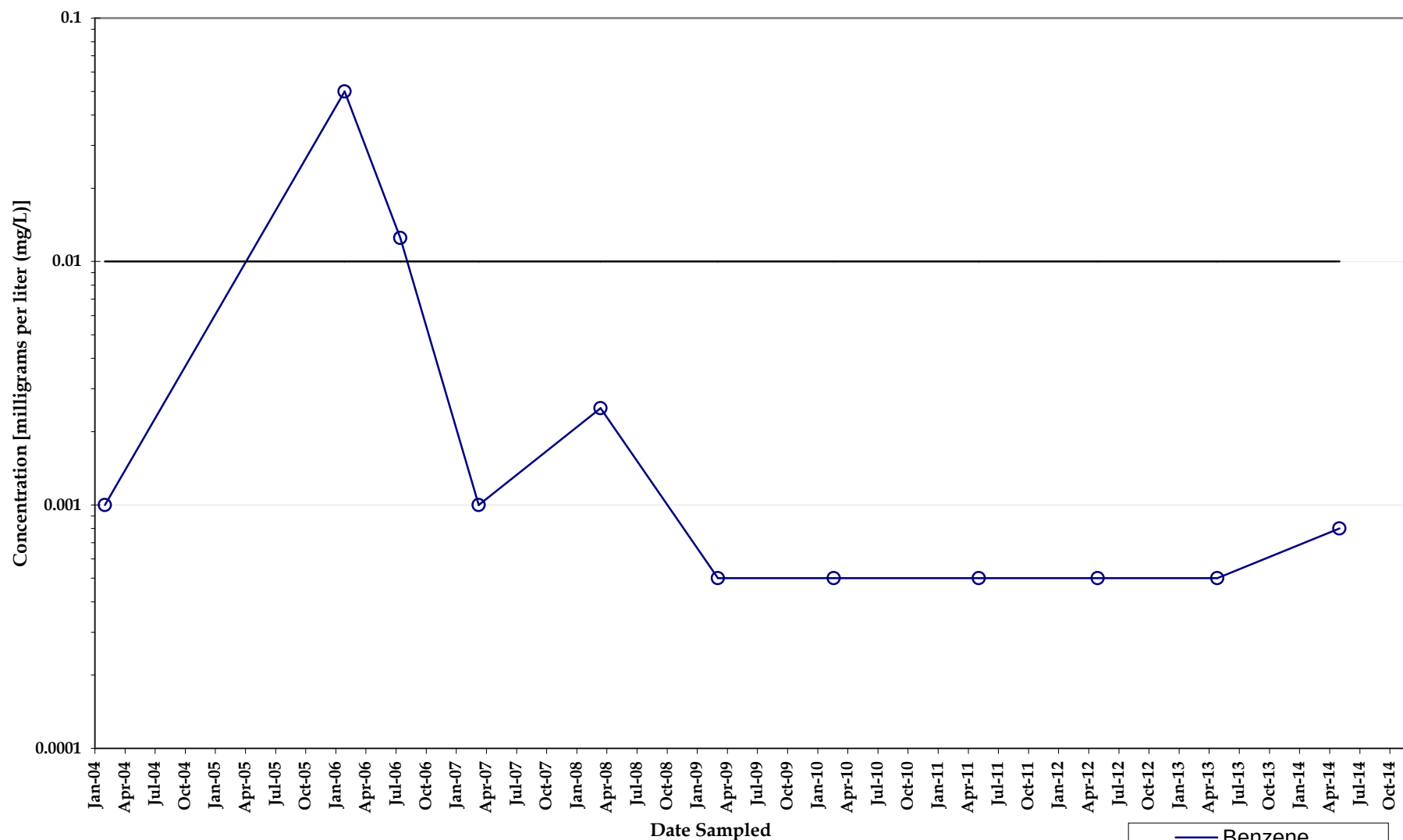


Benzene Concentrations Monitoring Well IW012

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

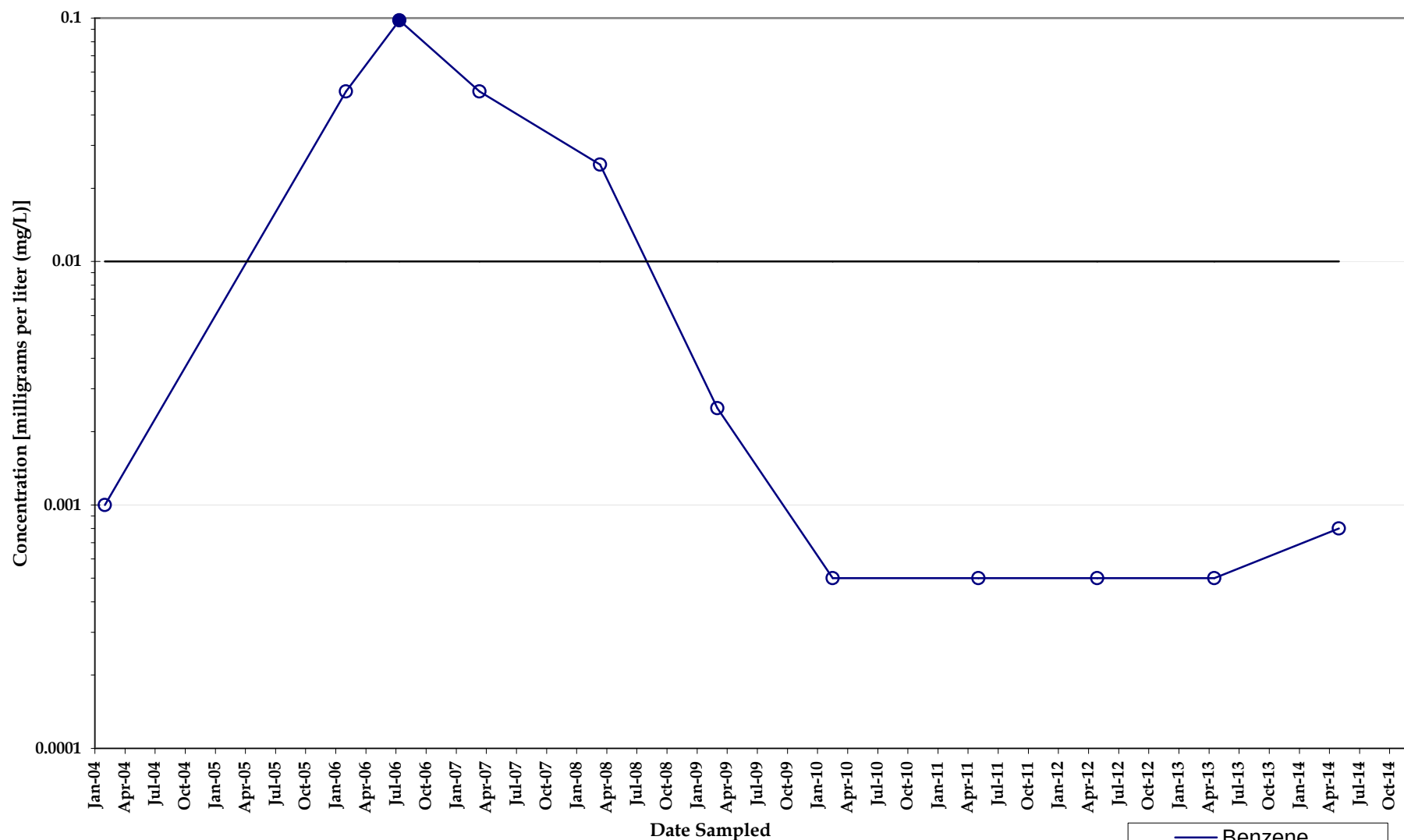


Benzene Concentrations Monitoring Well IW013

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

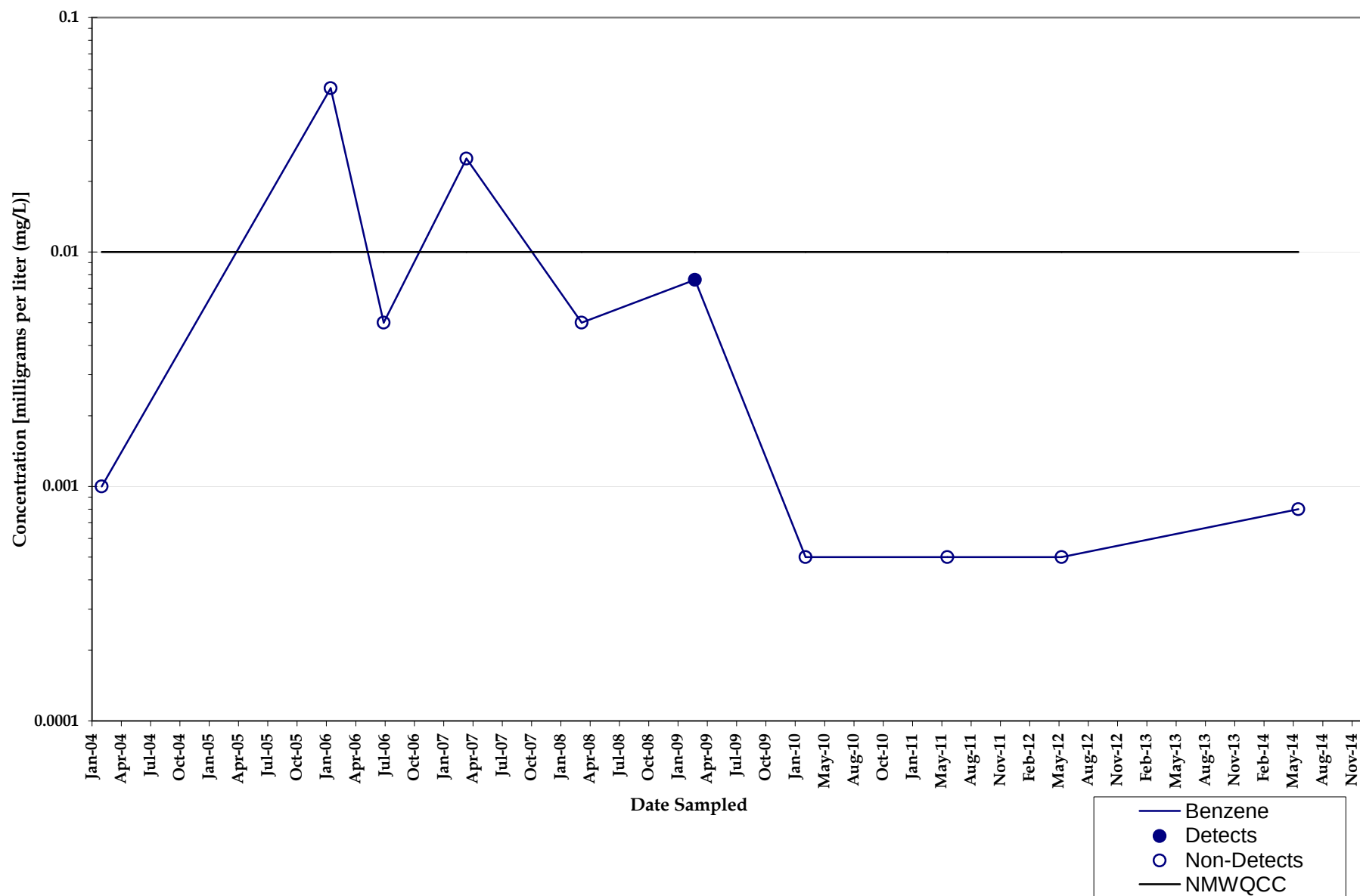


Benzene Concentrations Monitoring Well IW014

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

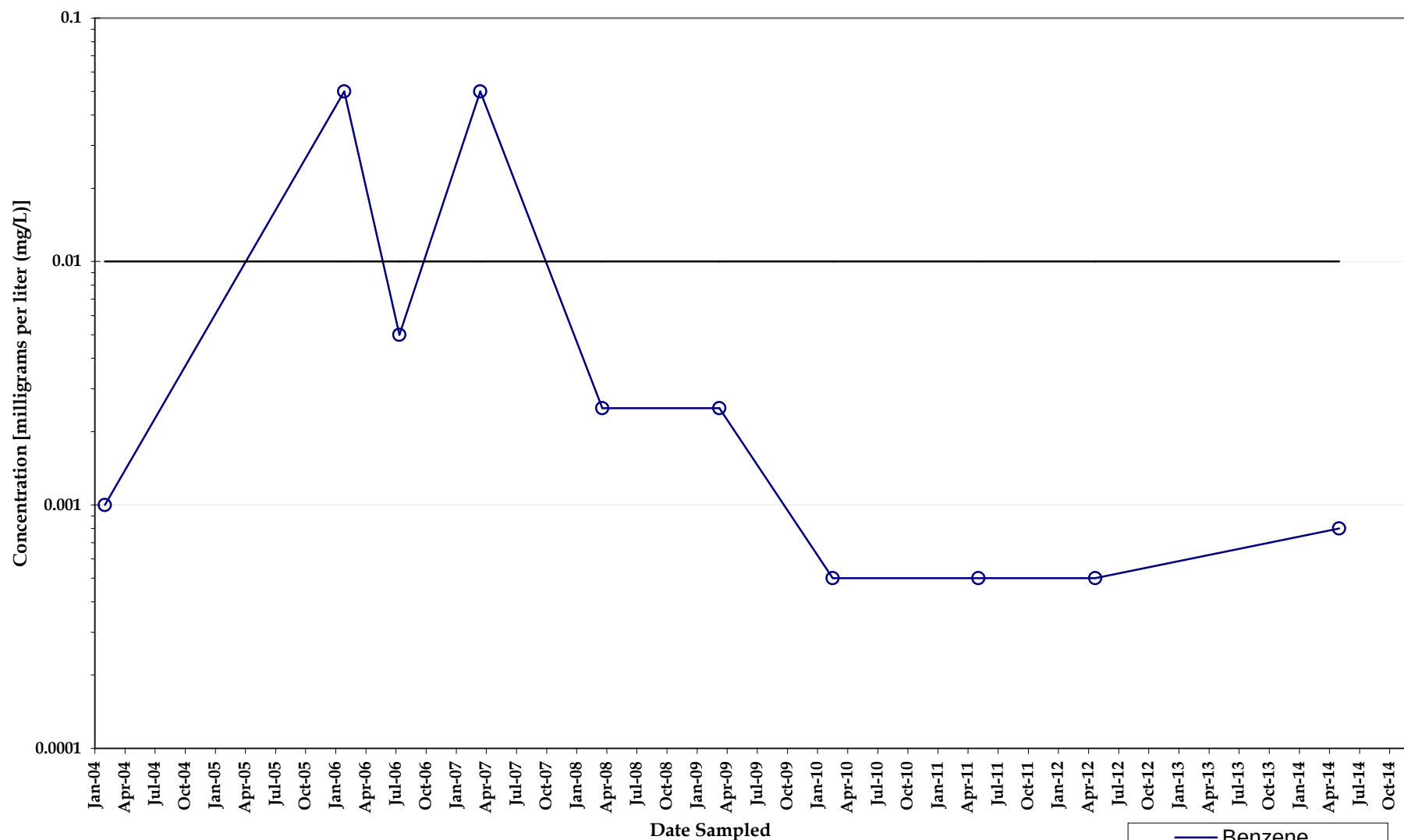


Benzene Concentrations Monitoring Well IW015

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

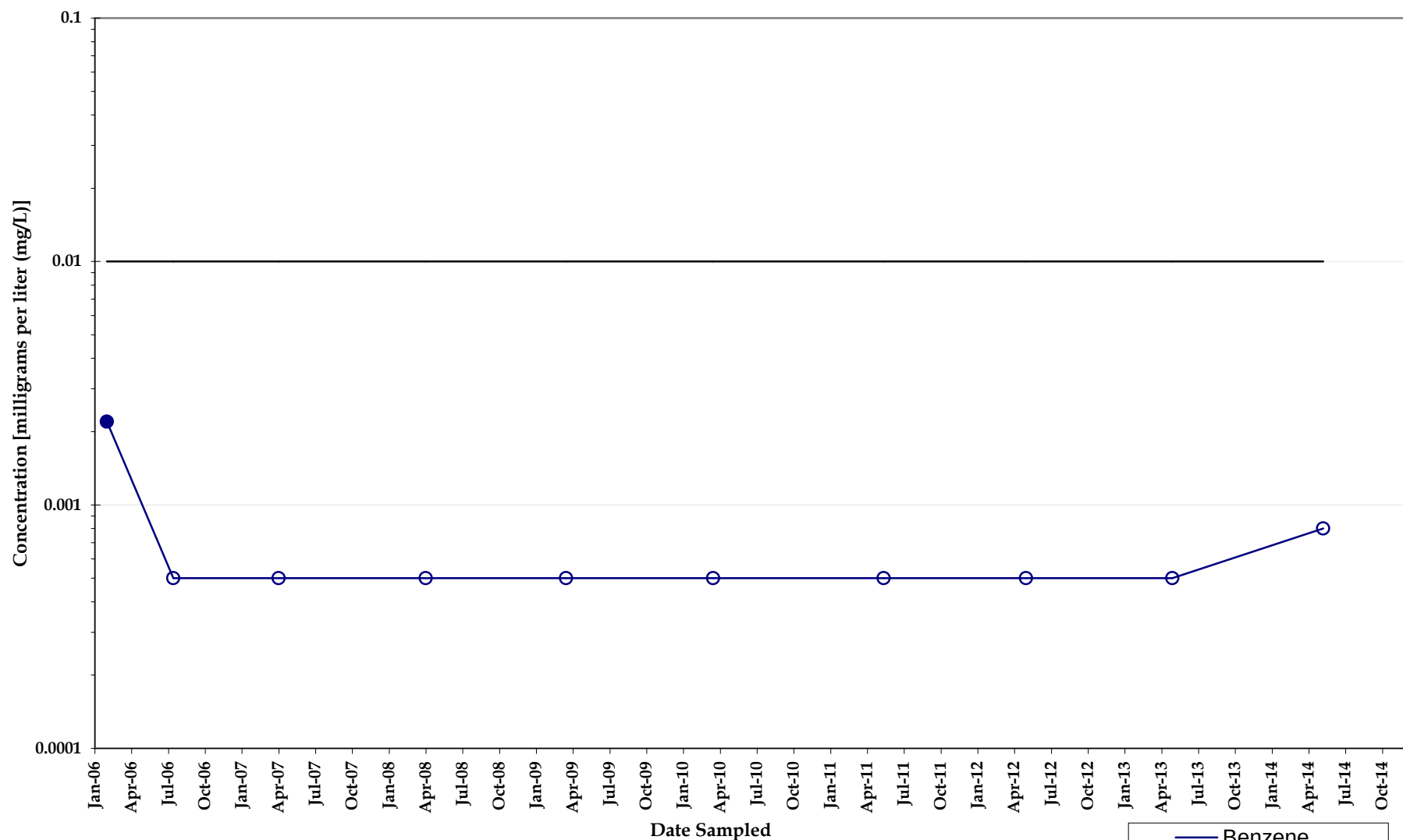


Benzene Concentrations Monitoring Well IW016

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

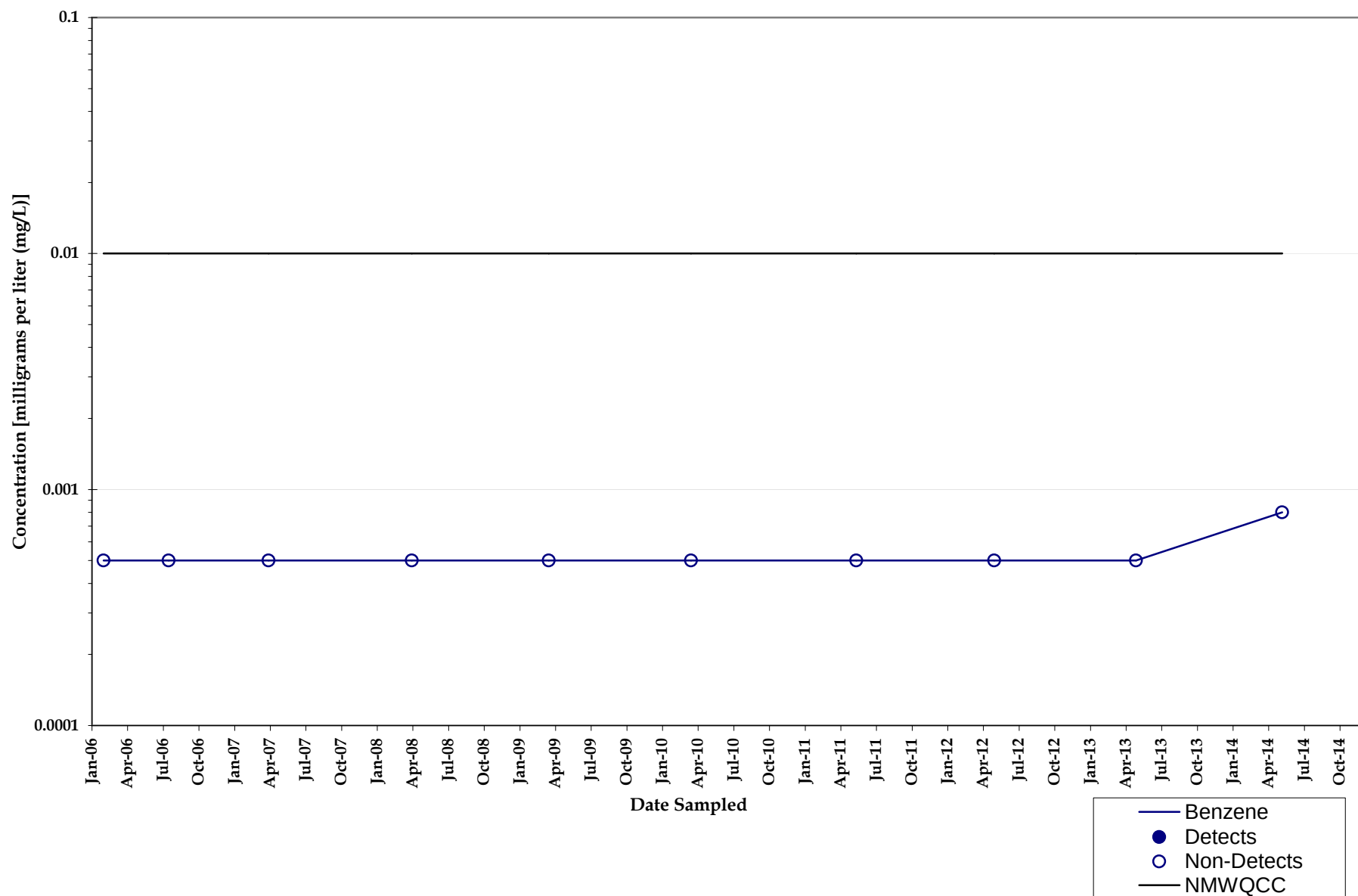


Benzene Concentrations Monitoring Well IW018

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

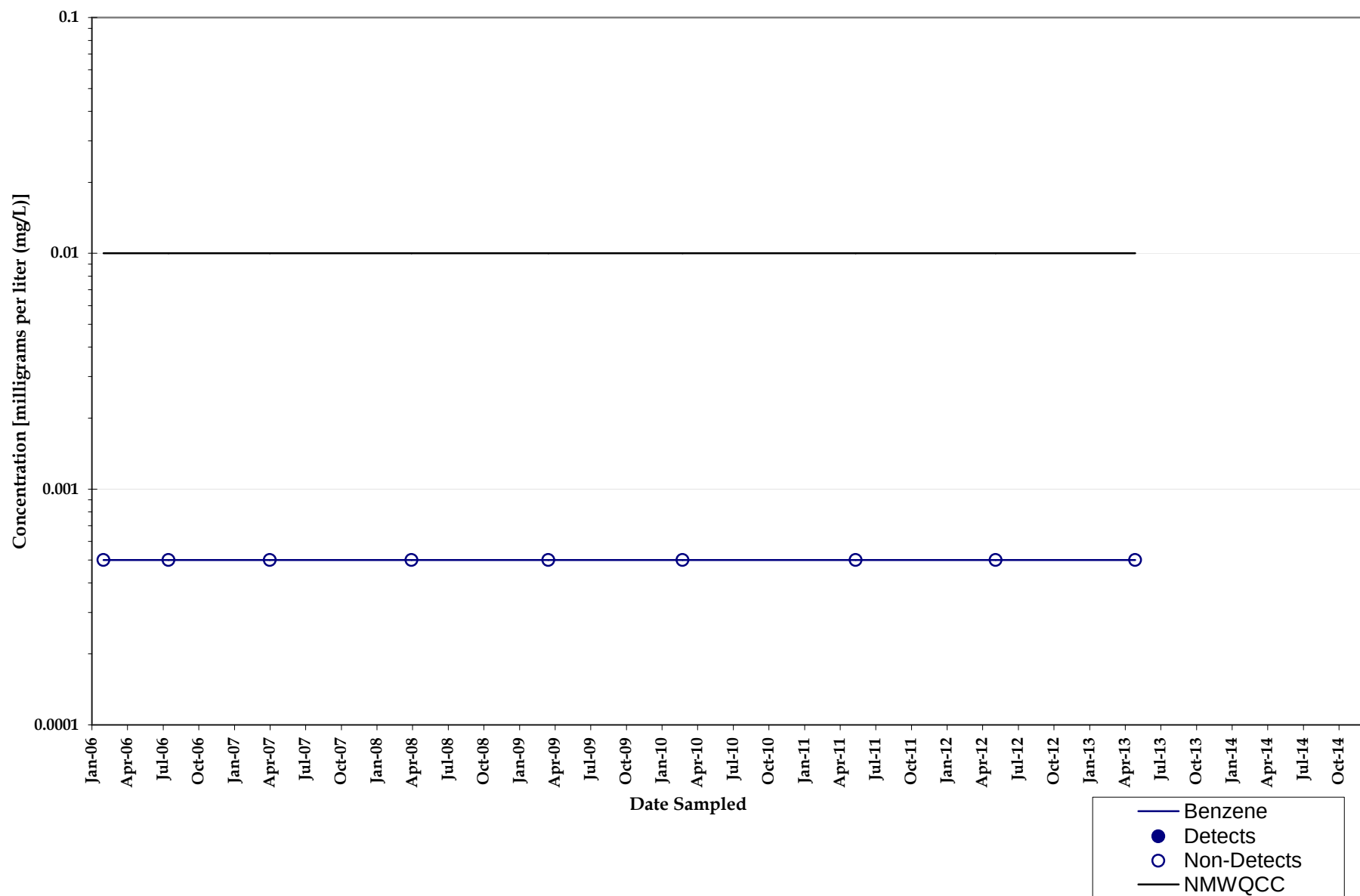


Benzene Concentrations Monitoring Well IW019

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

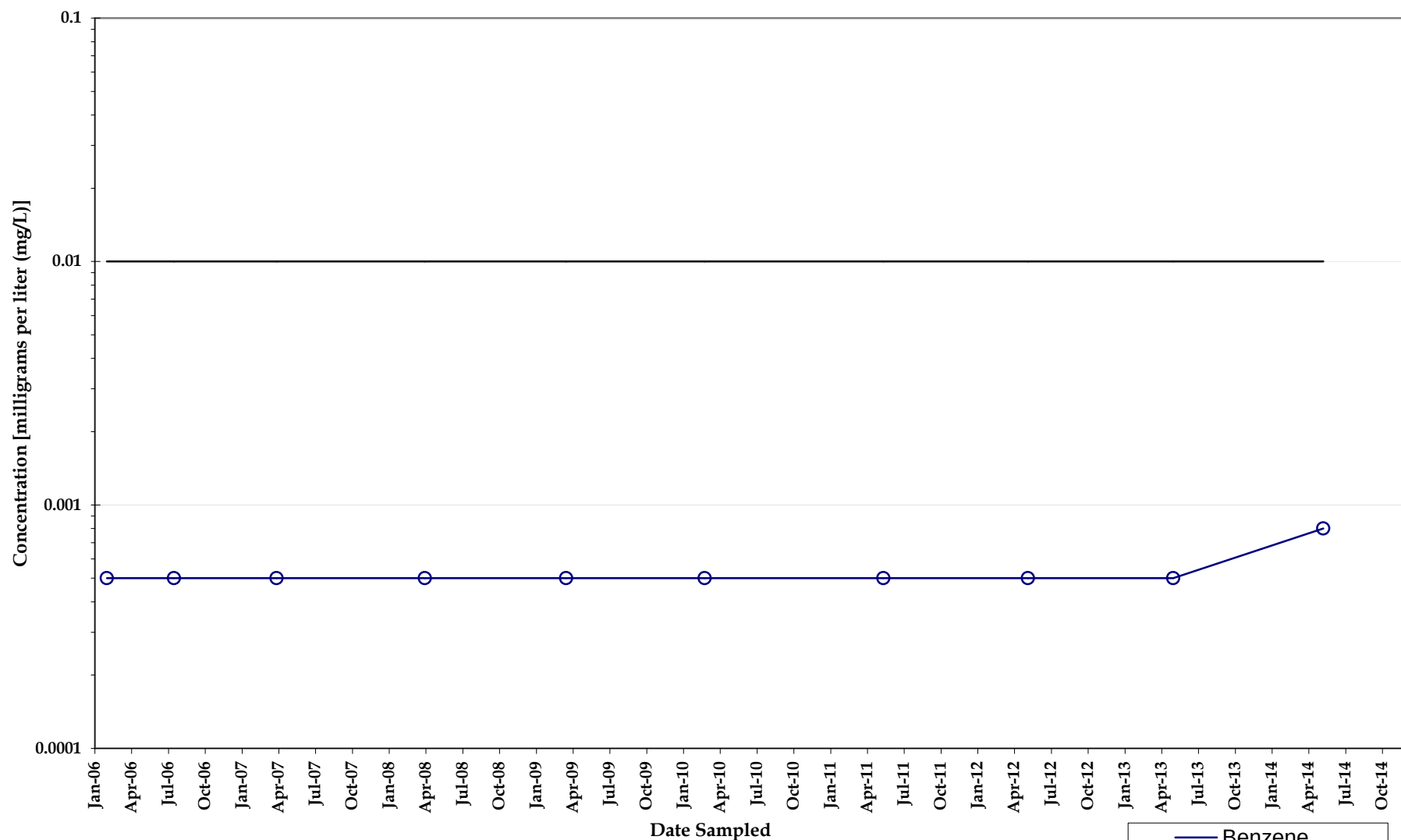


Benzene Concentrations Monitoring Well IW020

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

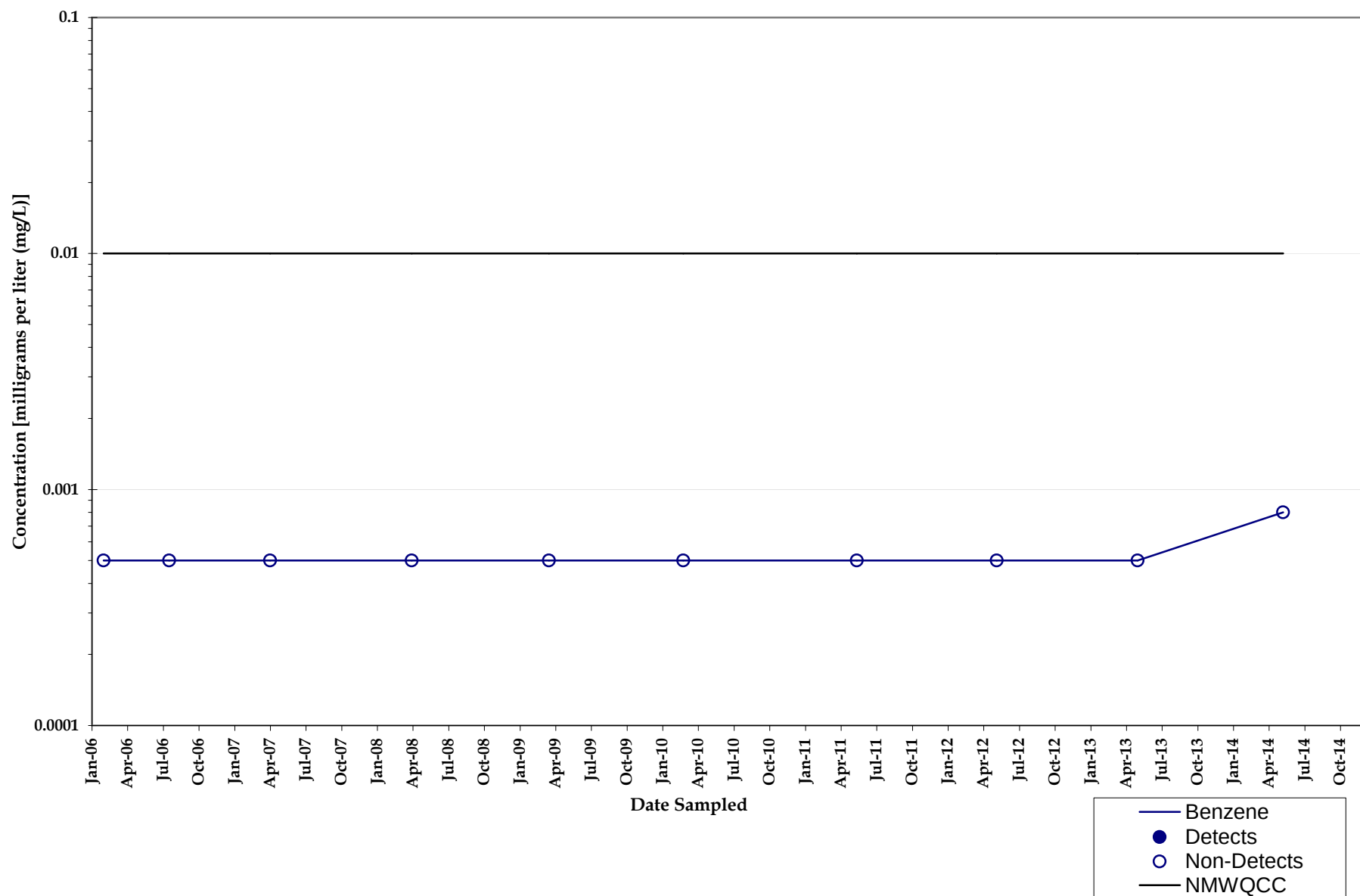


Benzene Concentrations Monitoring Well IW021

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

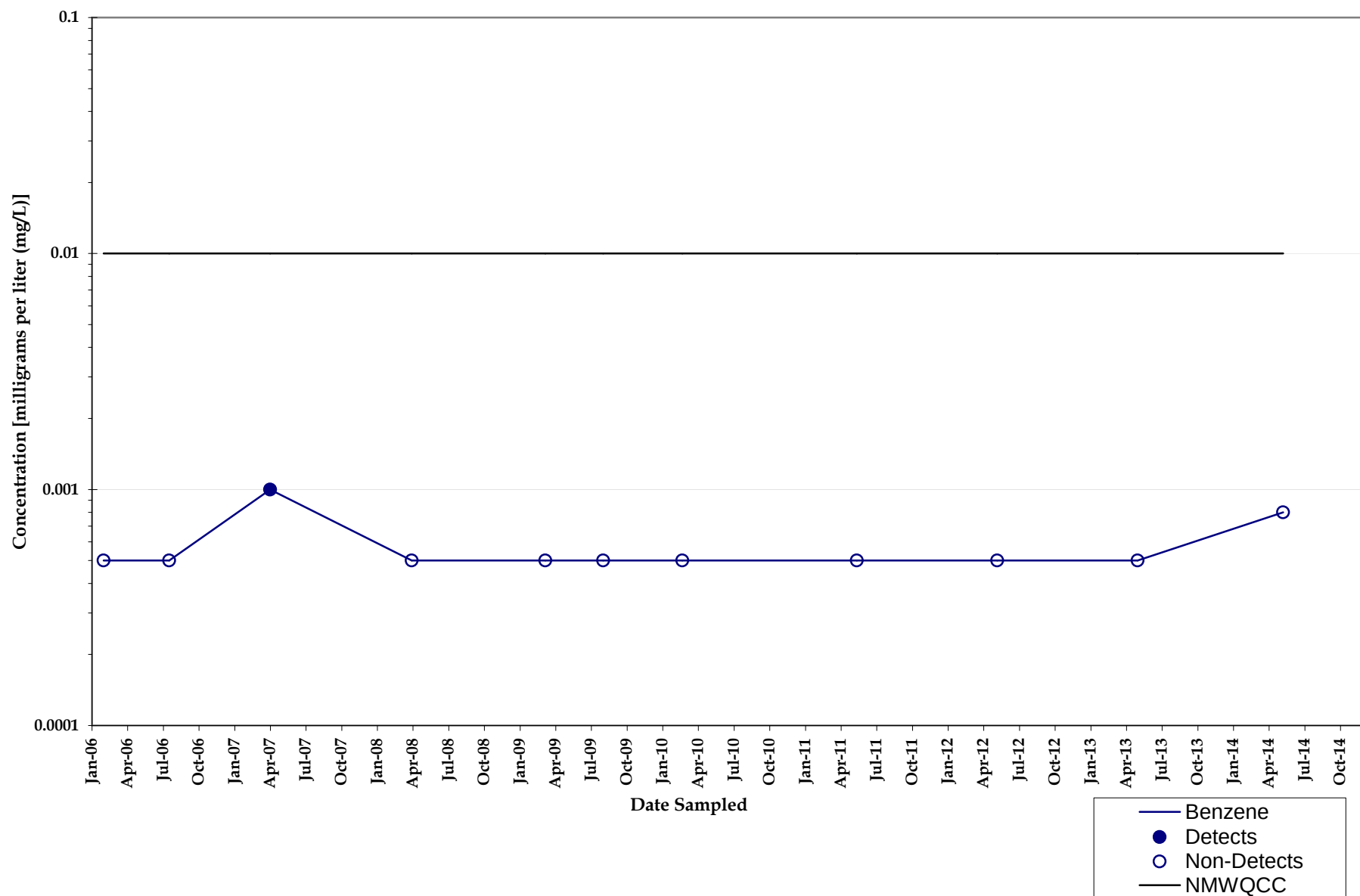


Benzene Concentrations Monitoring Well IW022

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

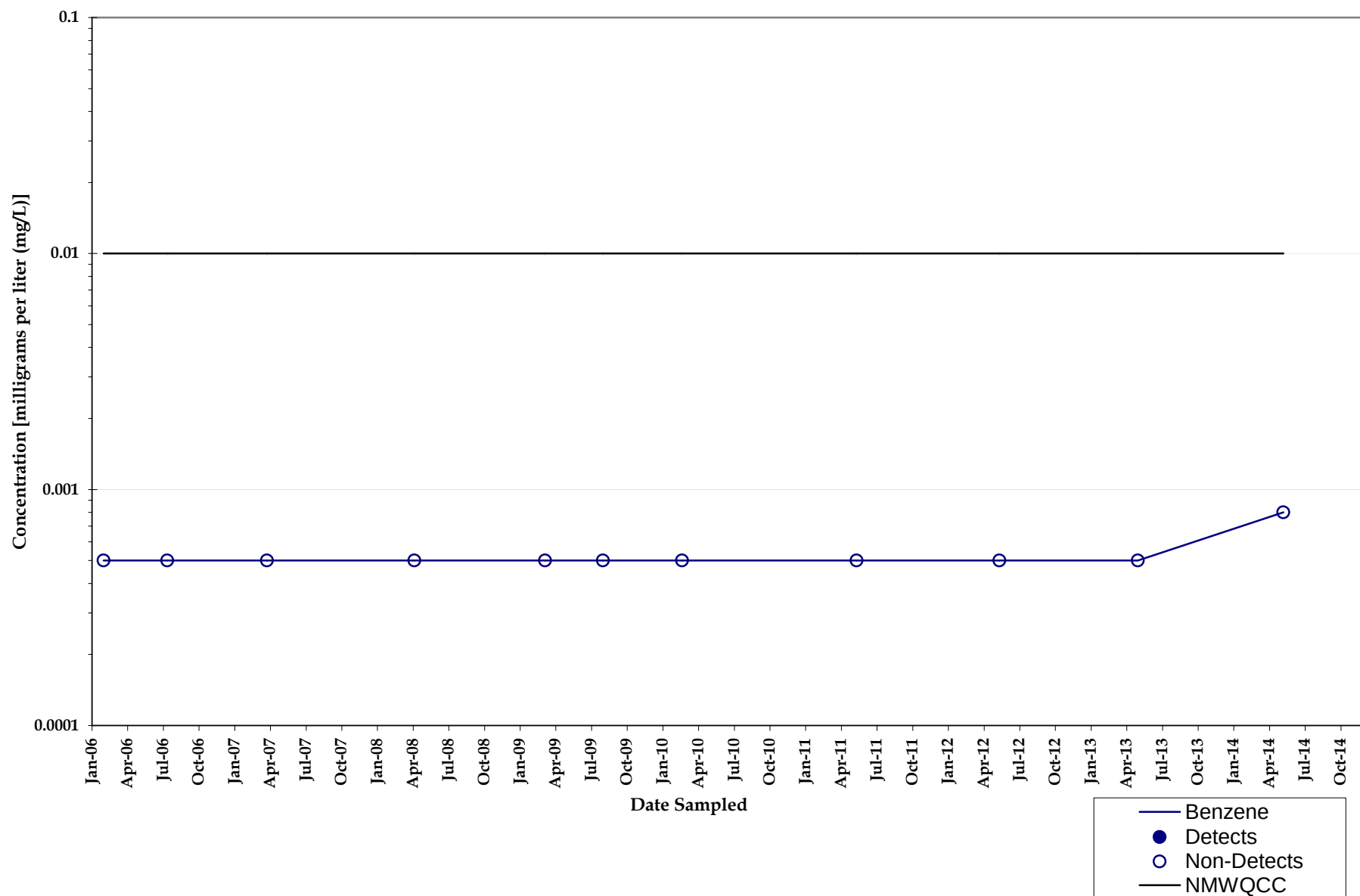


Benzene Concentrations Monitoring Well IW023

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

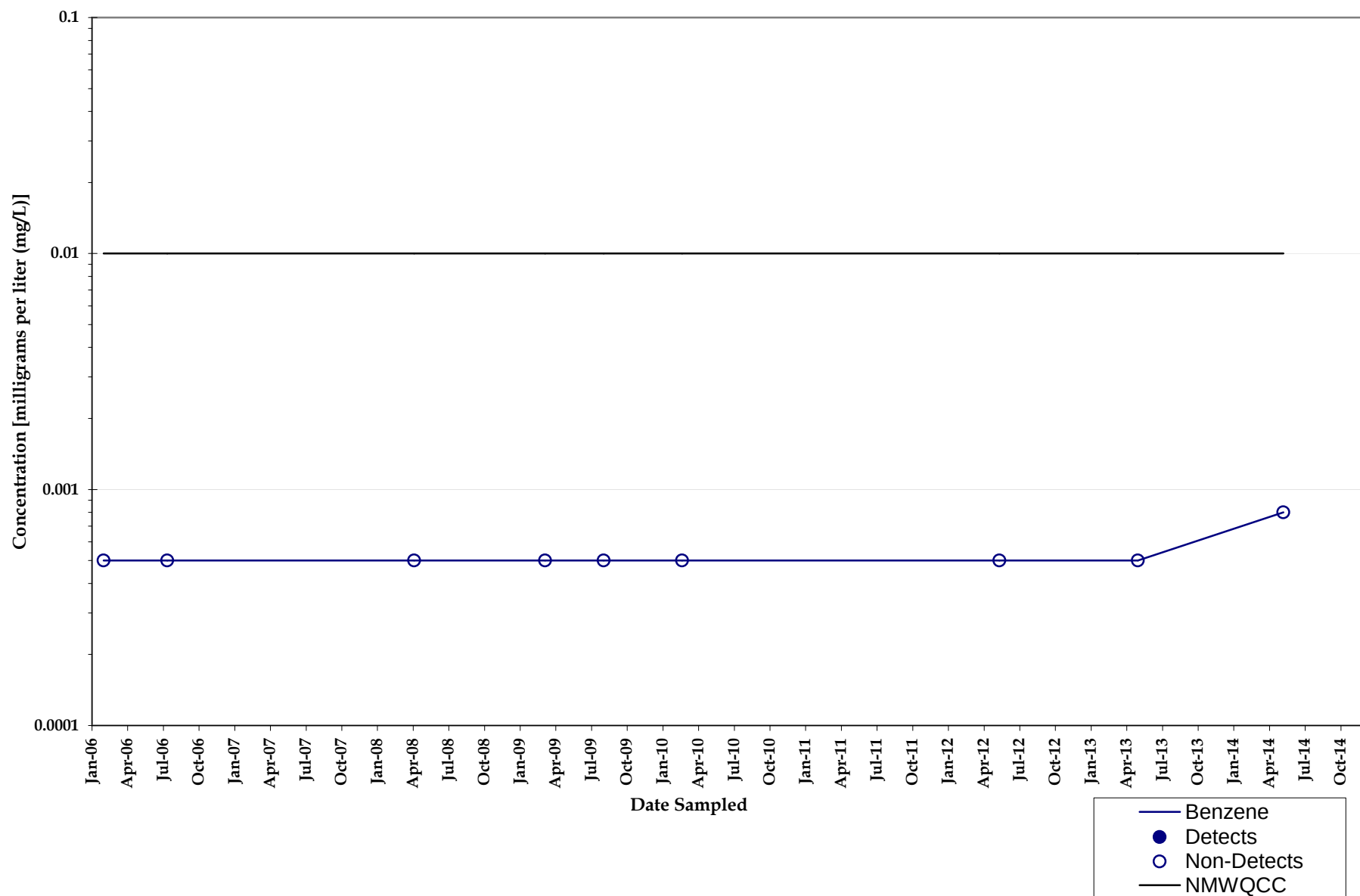


Benzene Concentrations Monitoring Well IW024

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

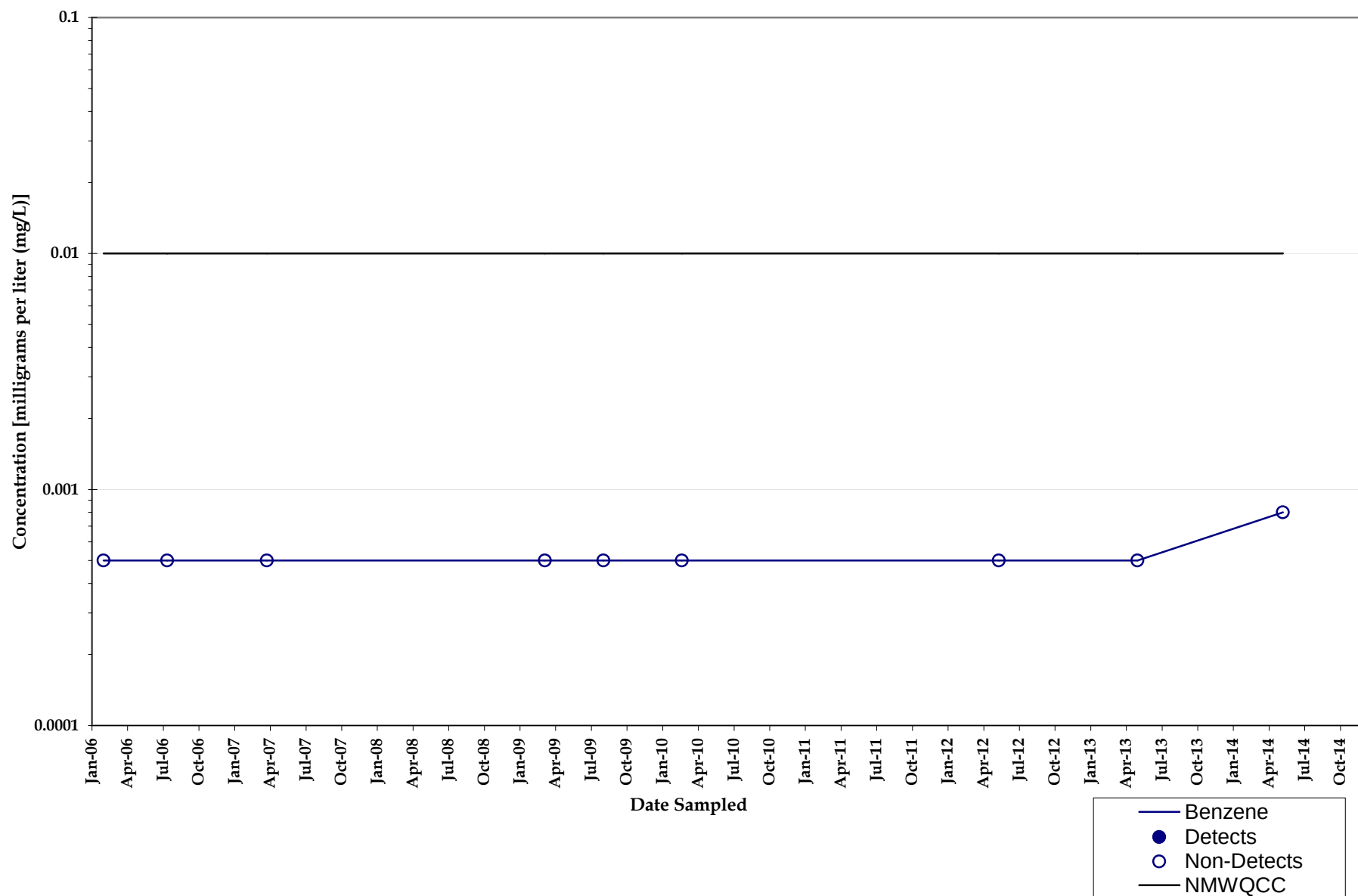


Benzene Concentrations Monitoring Well IW025

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

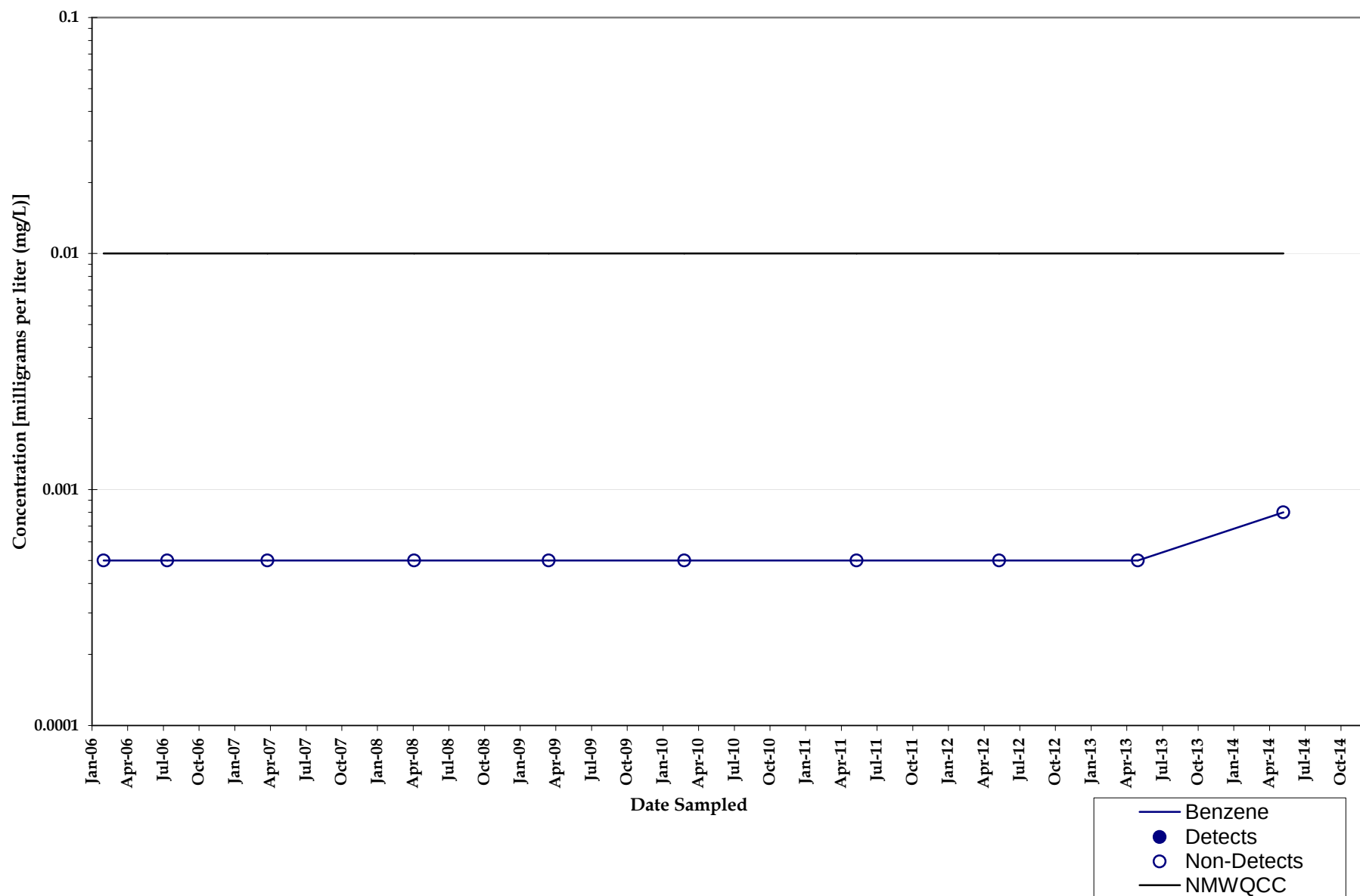


Benzene Concentrations Monitoring Well IW026

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

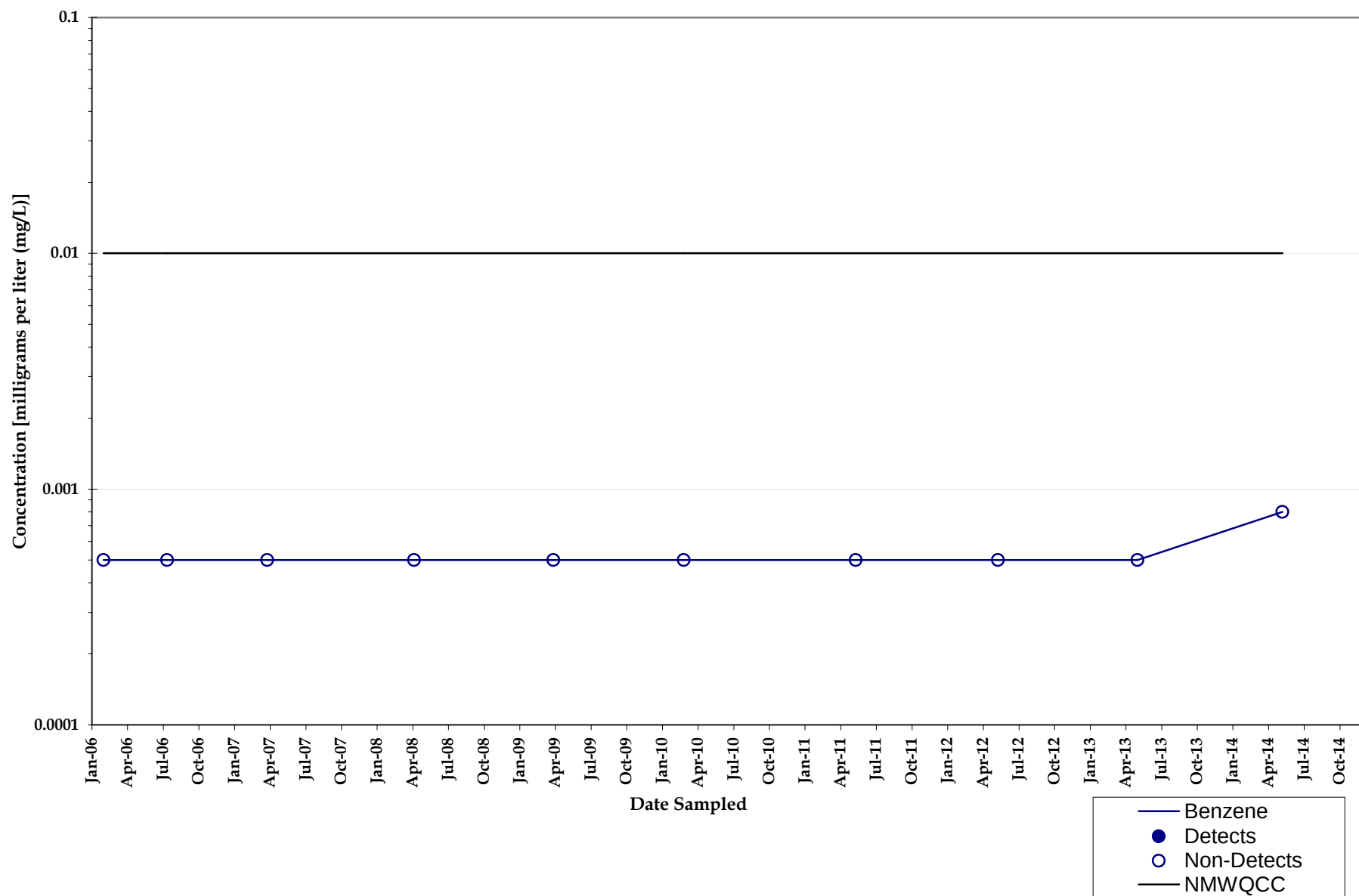


Benzene Concentrations Monitoring Well IW027

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

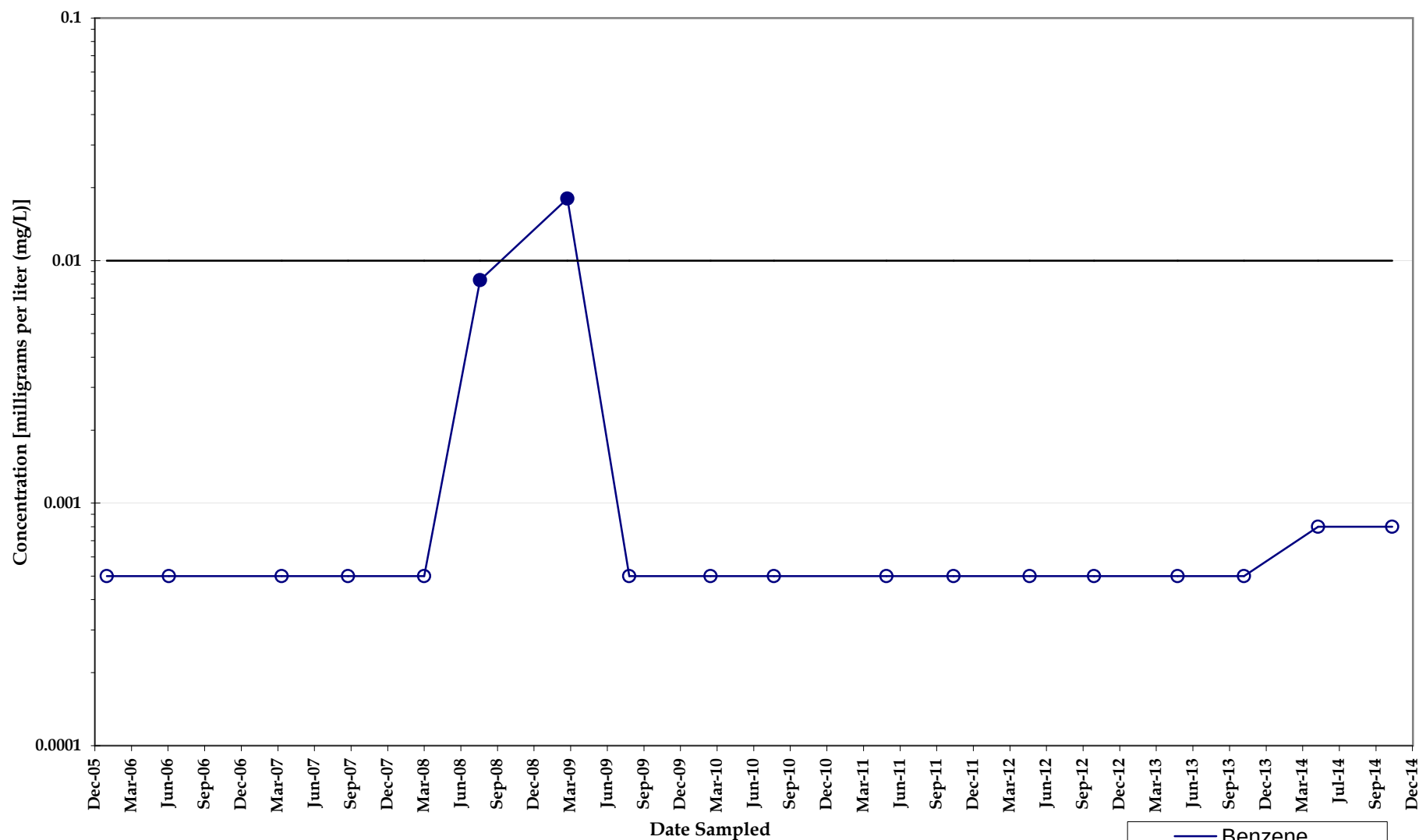


Benzene Concentrations Monitoring Well IW028

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

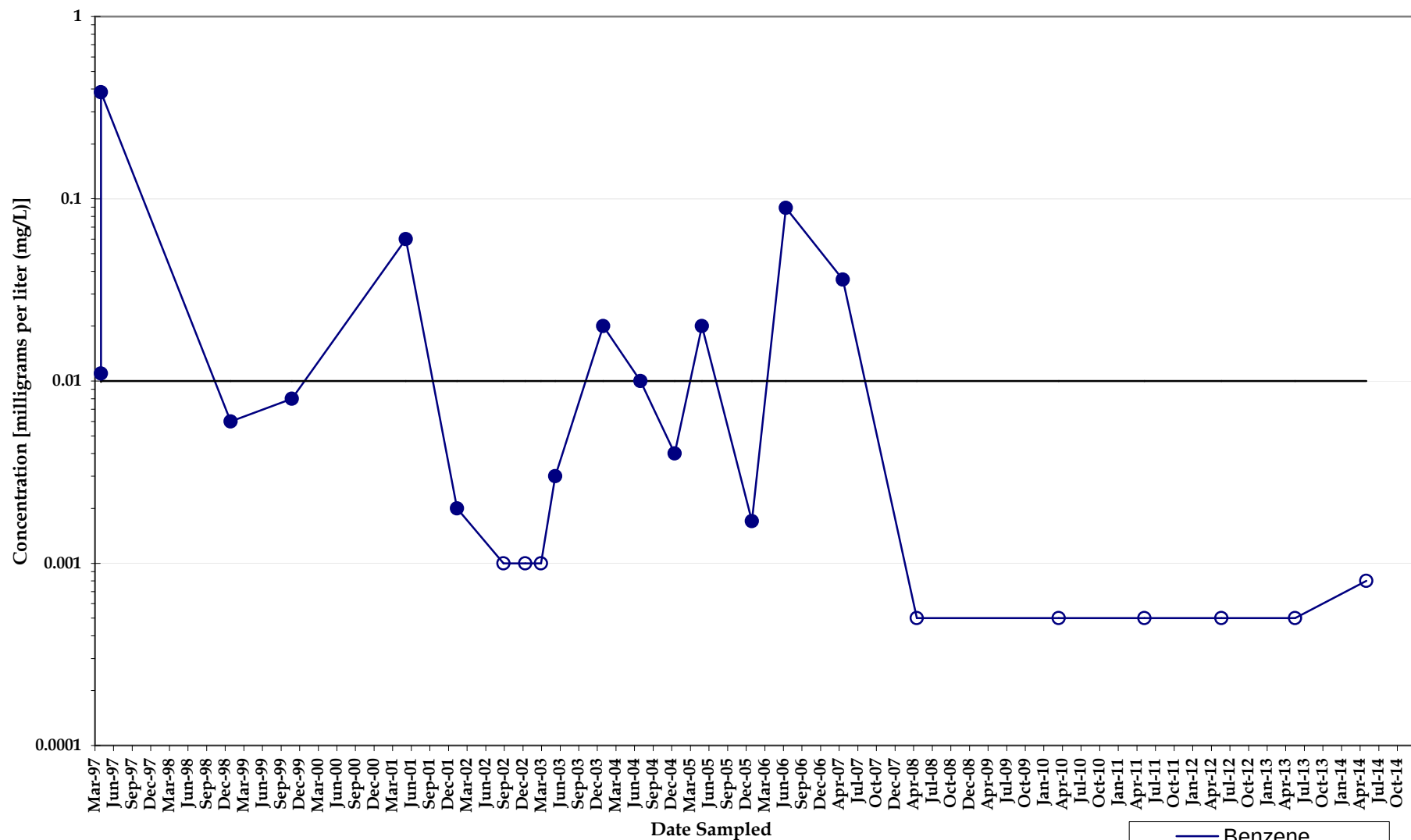


Benzene Concentrations Monitoring Well LORDWW

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

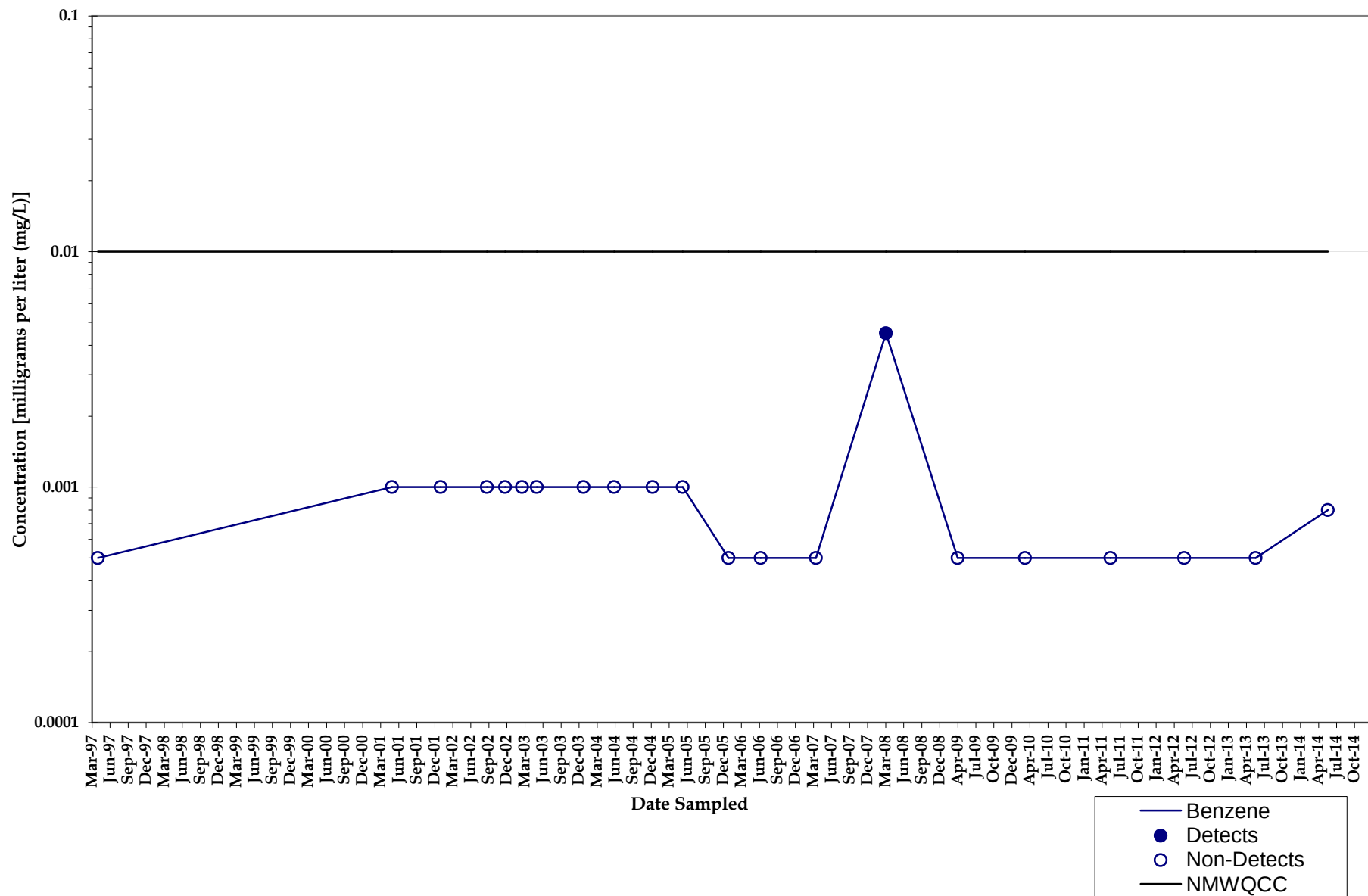


Benzene Concentrations Monitoring Well MW001

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

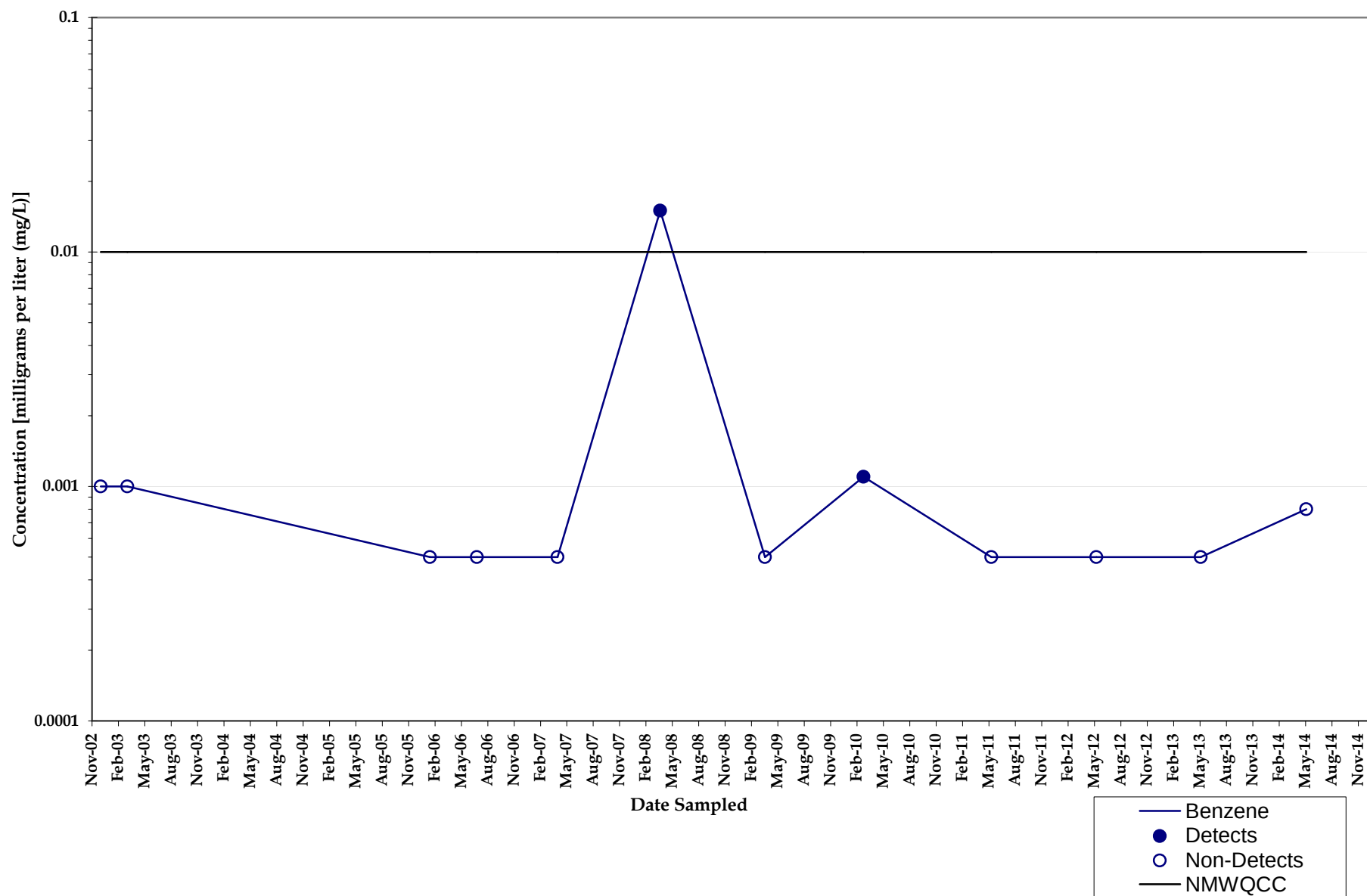


Benzene Concentrations Monitoring Well MW002

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

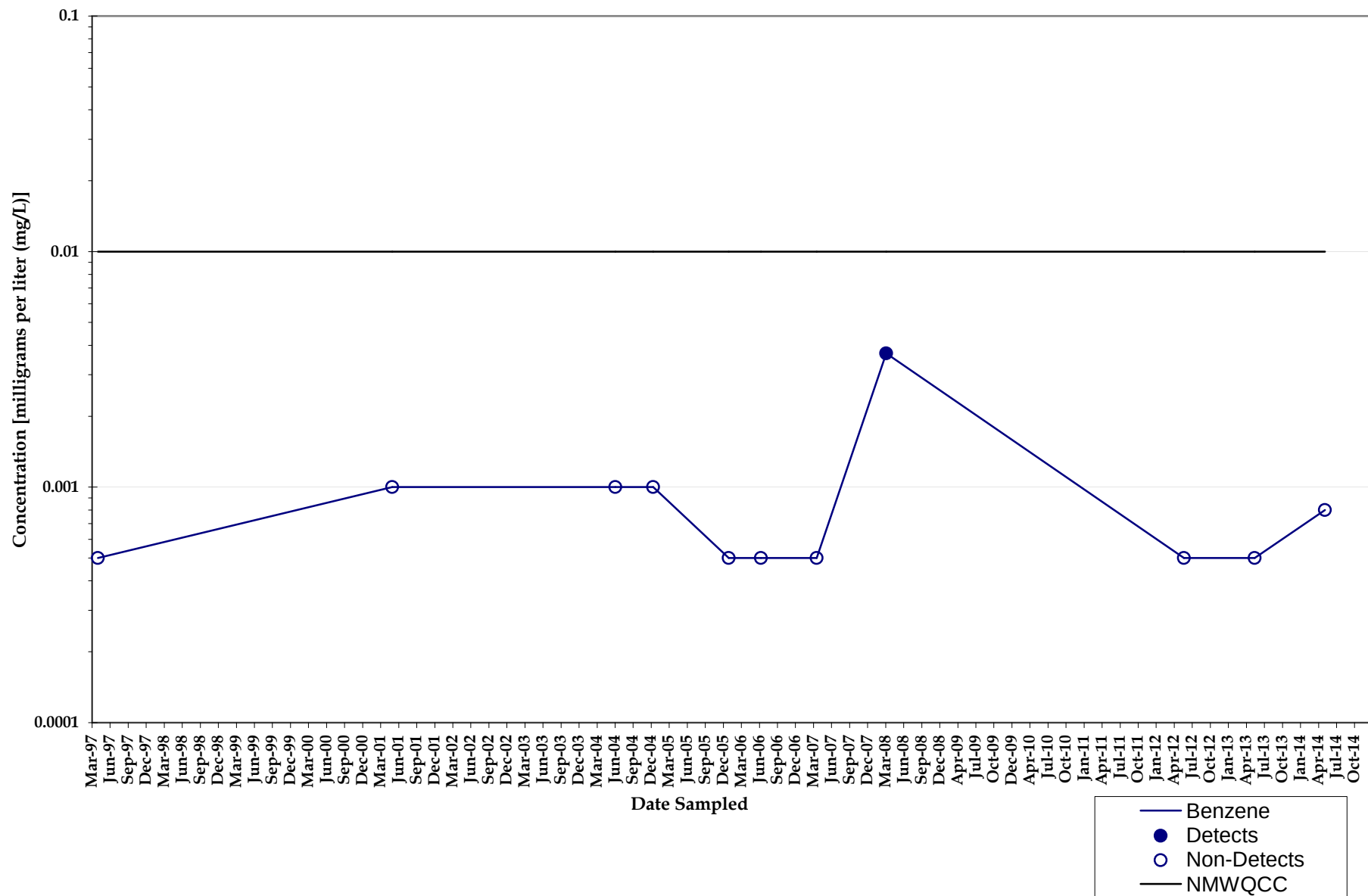


Benzene Concentrations Monitoring Well MW002A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

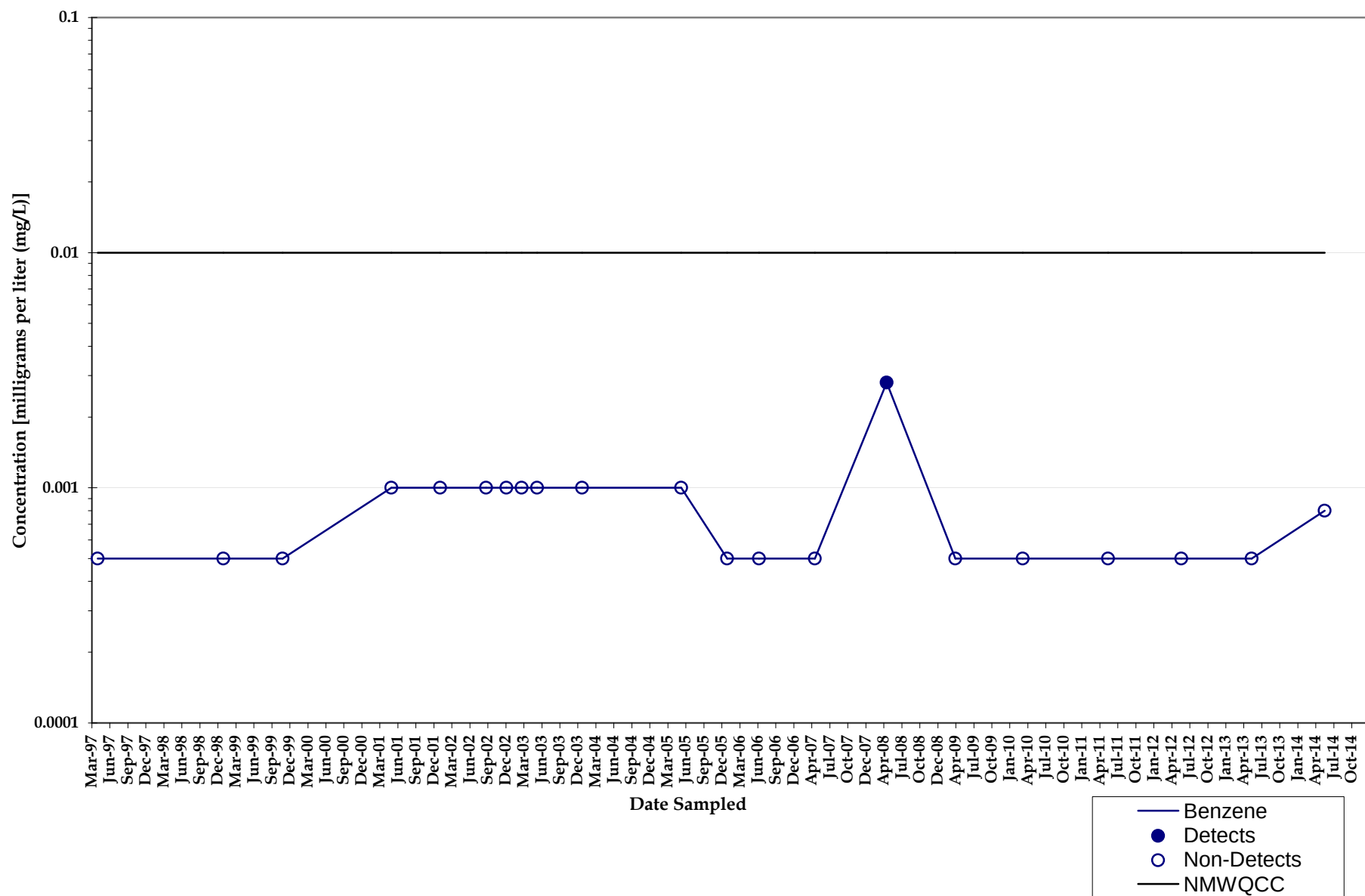


Benzene Concentrations Monitoring Well MW003

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

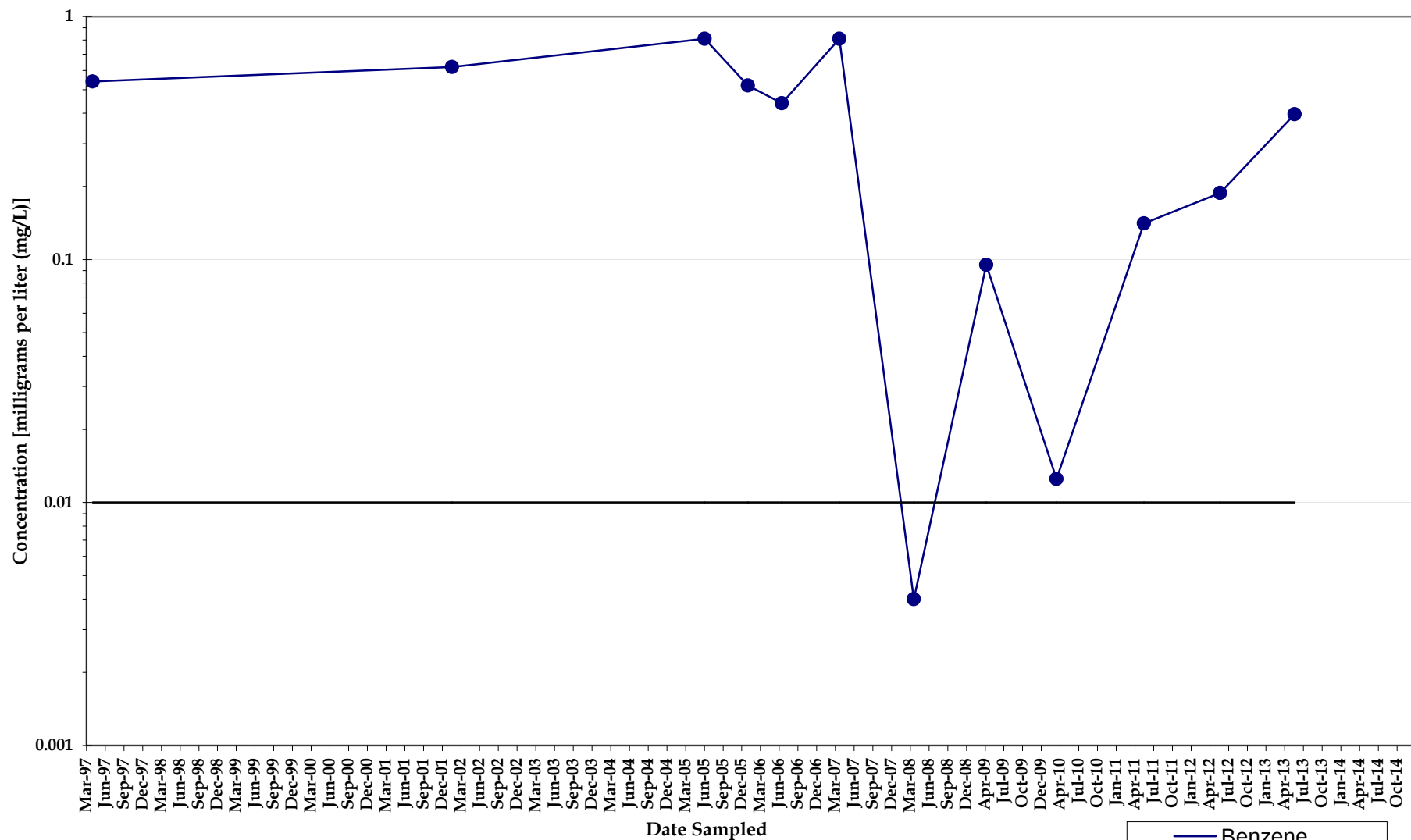


Benzene Concentrations Monitoring Well MW004

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

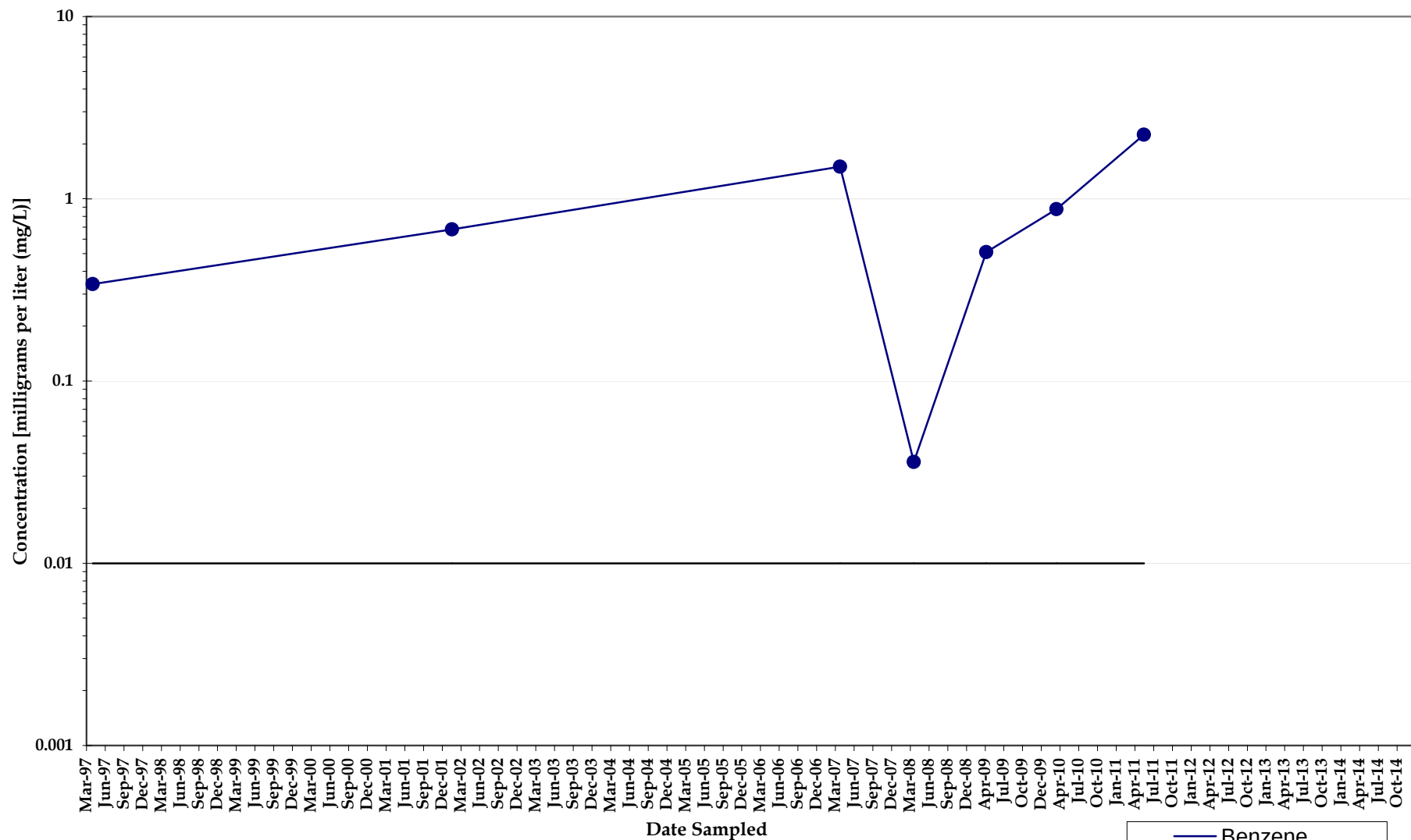


Benzene Concentrations Monitoring Well MW005

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

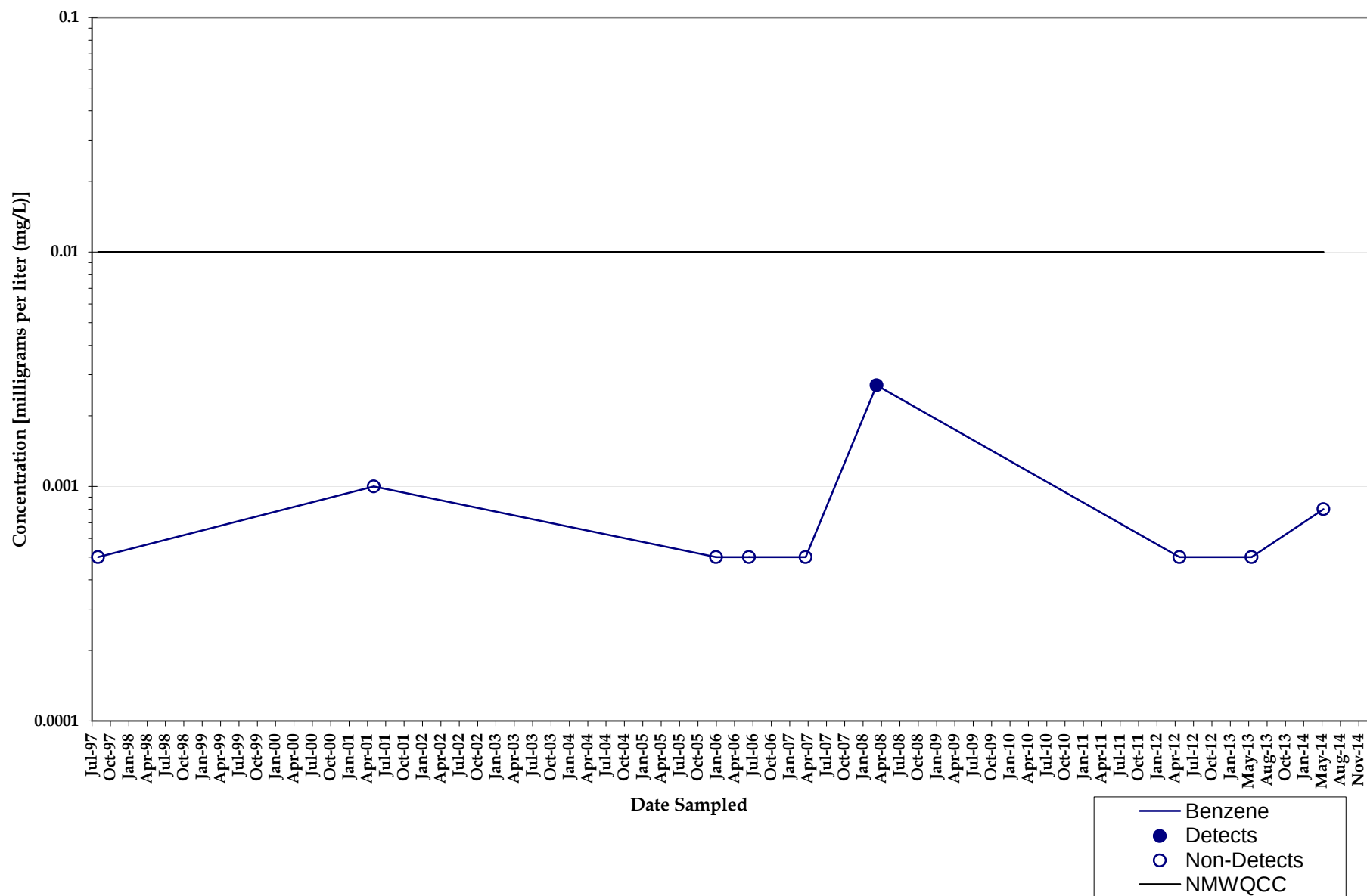


Benzene Concentrations Monitoring Well MW006

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

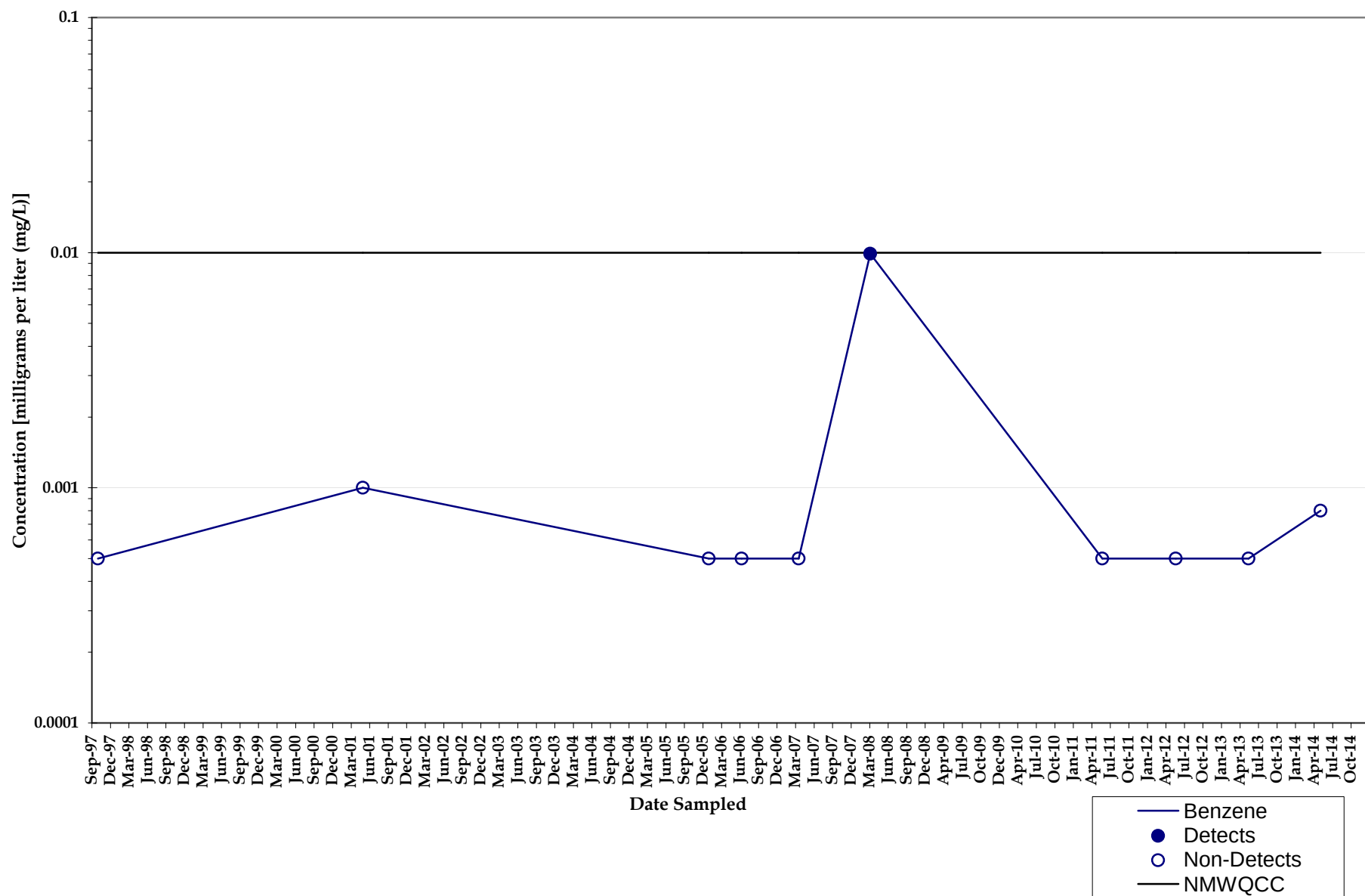


Benzene Concentrations Monitoring Well MW007

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

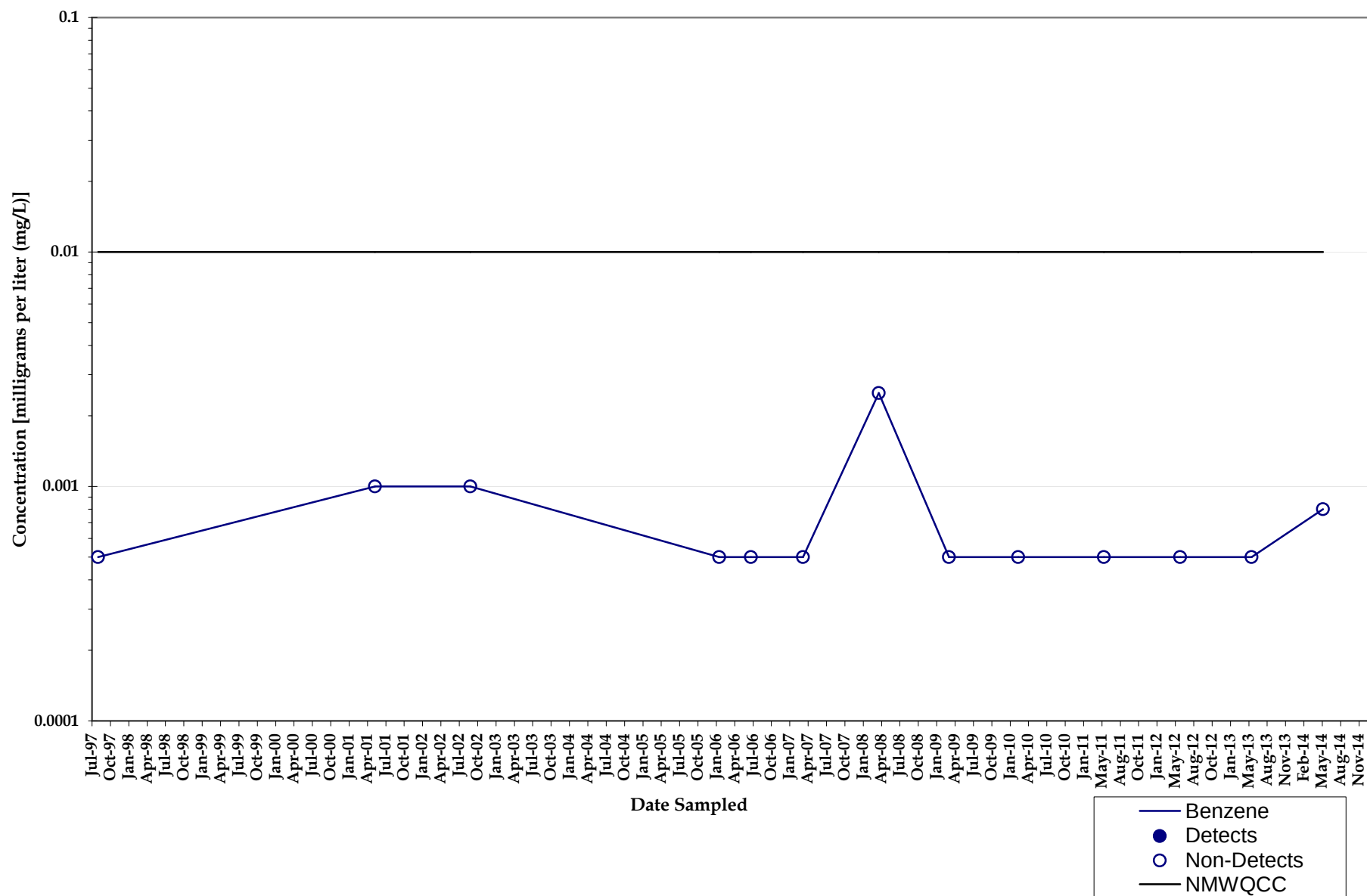


Benzene Concentrations Monitoring Well MW007A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

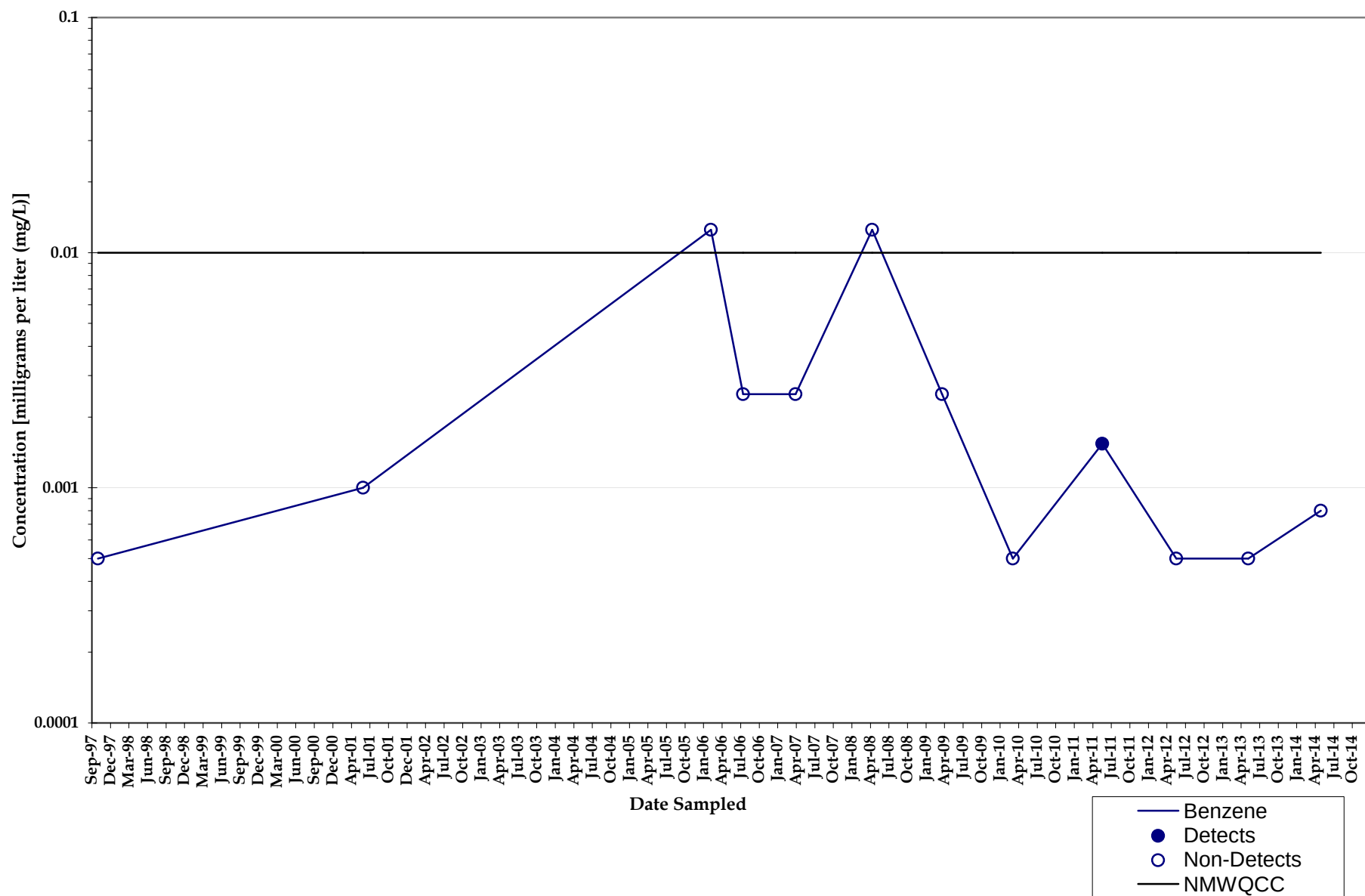


Benzene Concentrations Monitoring Well MW008

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

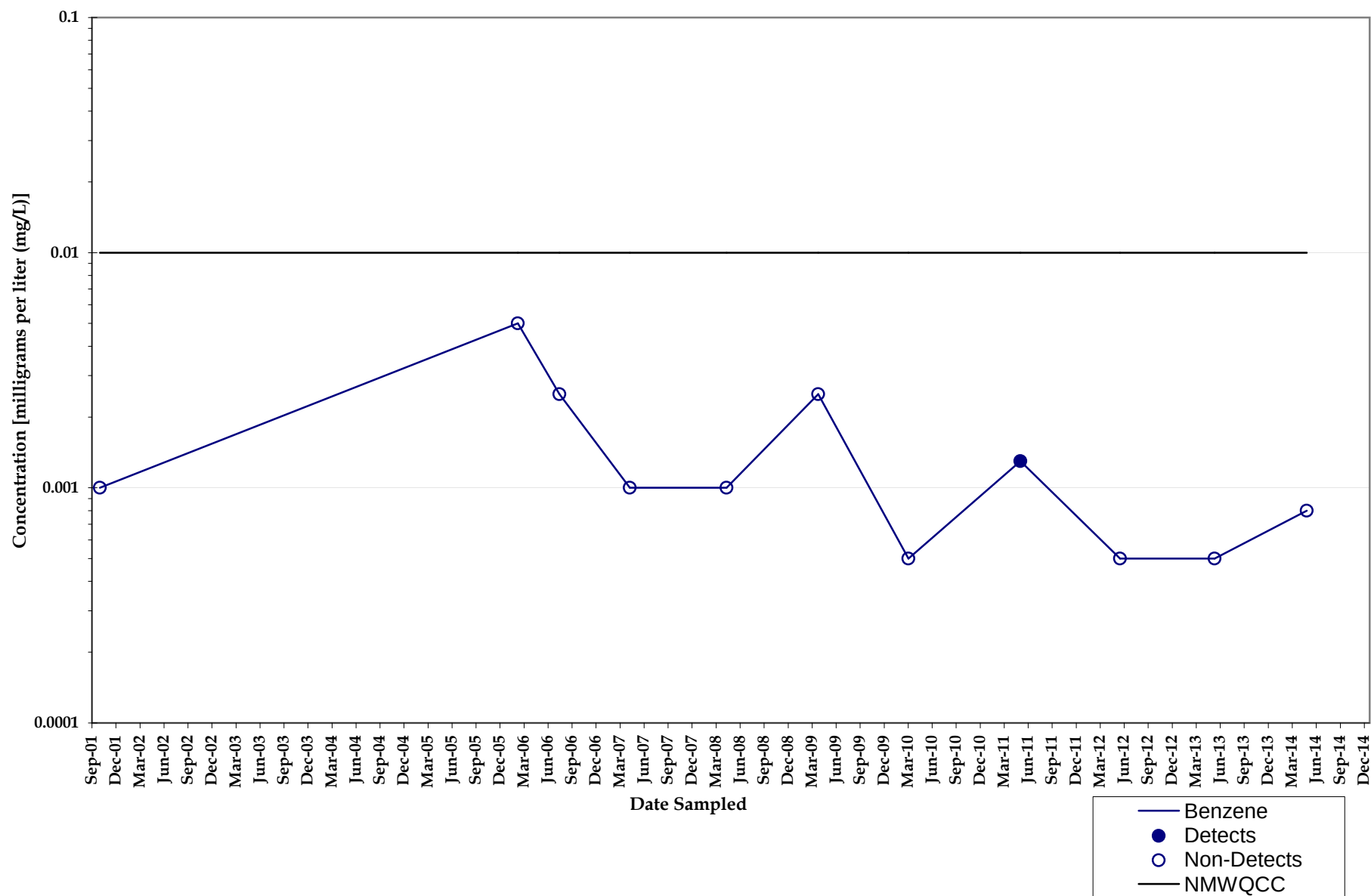


Benzene Concentrations Monitoring Well MW008A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

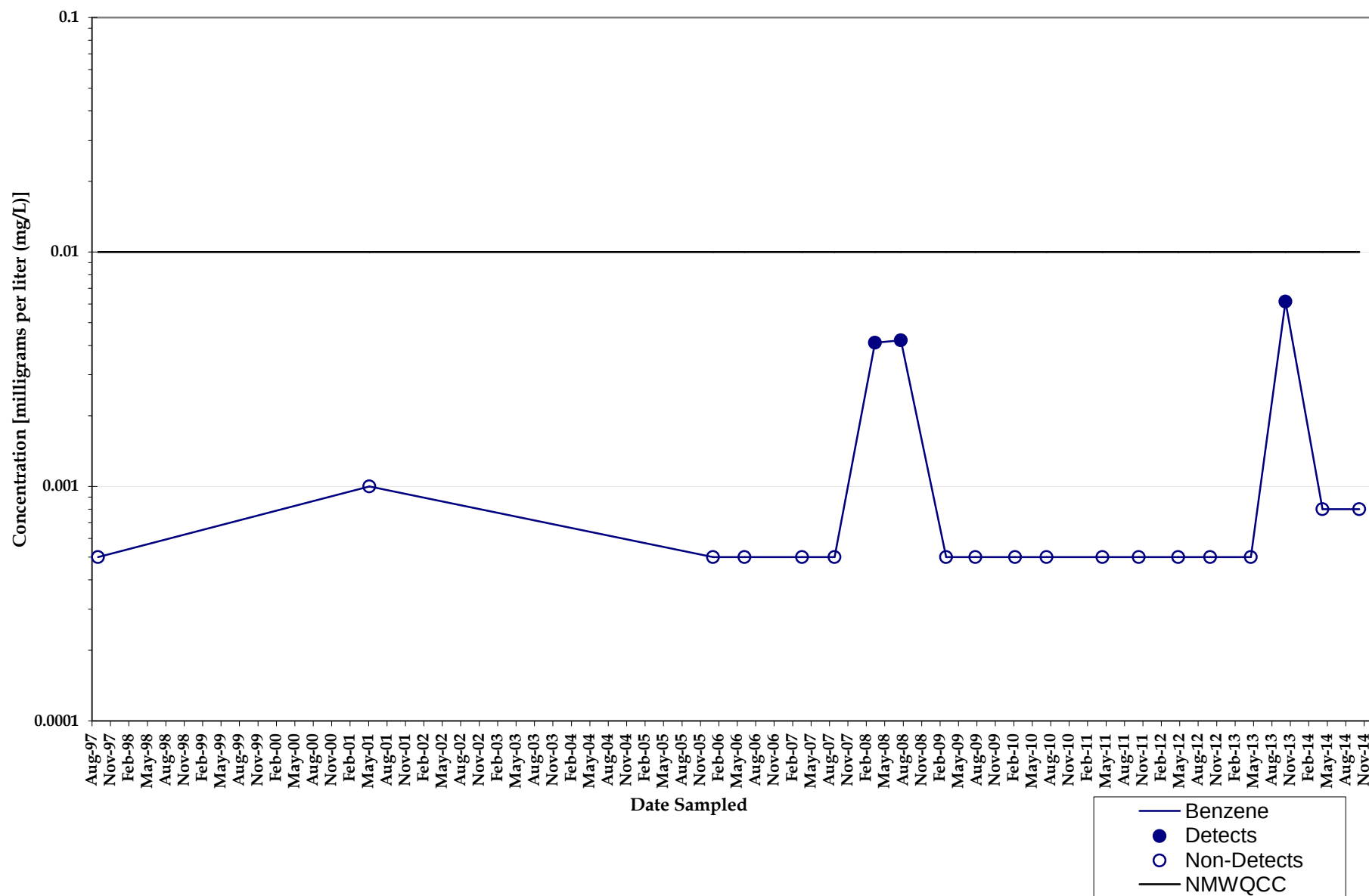


Benzene Concentrations Monitoring Well MW008M

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

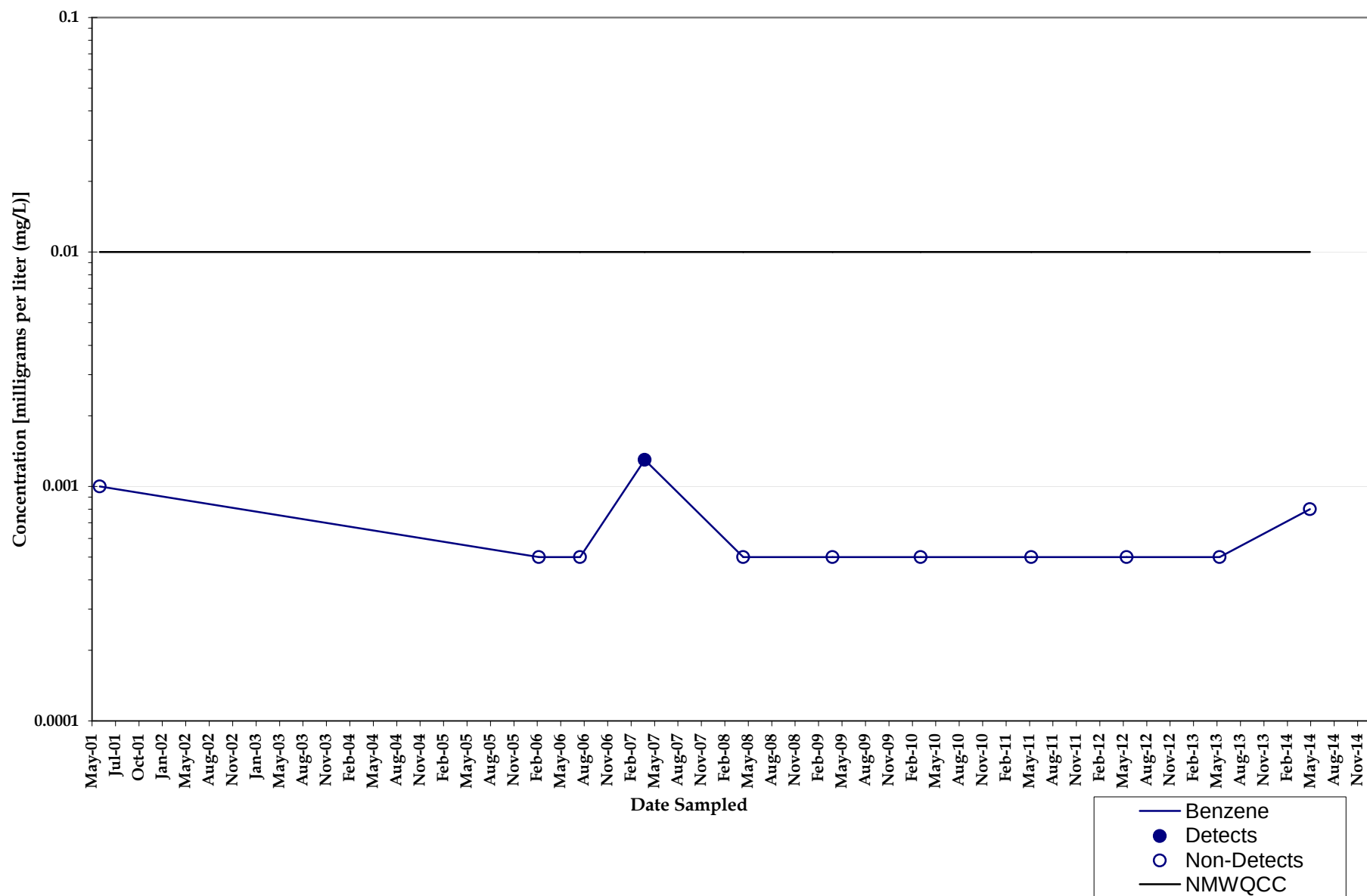


Benzene Concentrations Monitoring Well MW010

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

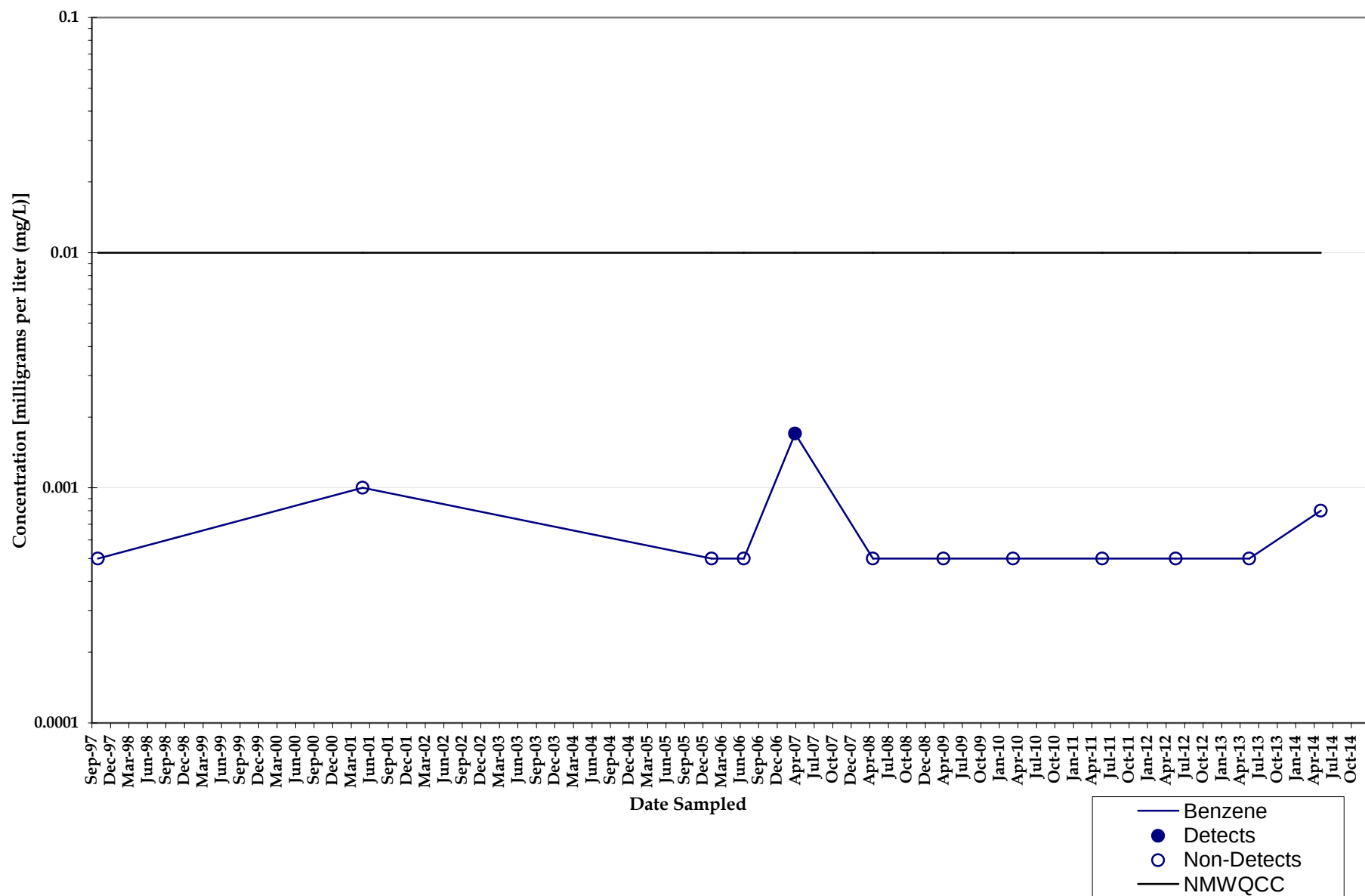


Benzene Concentrations Monitoring Well MW011

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

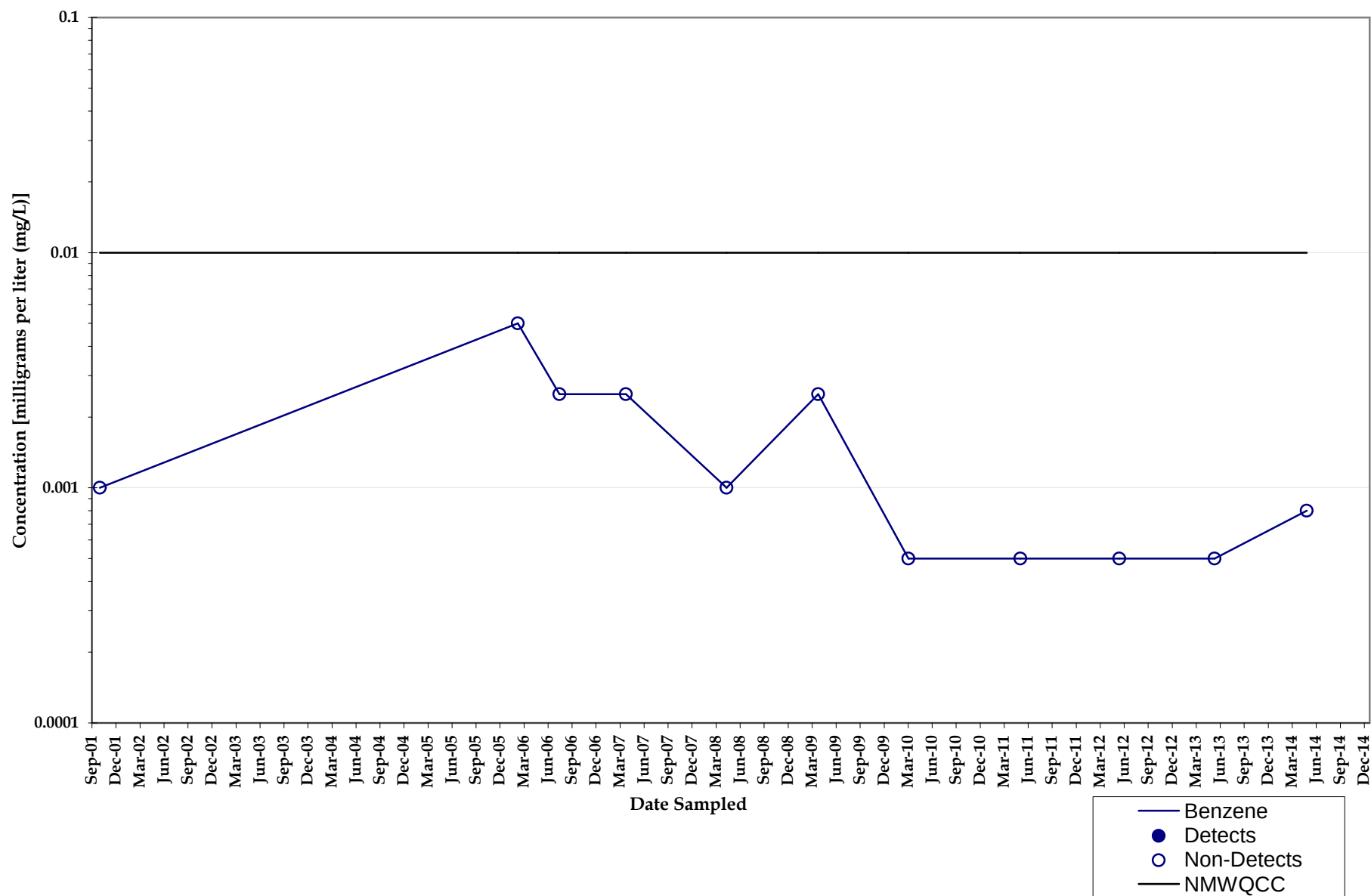


Benzene Concentrations Monitoring Well MW011A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

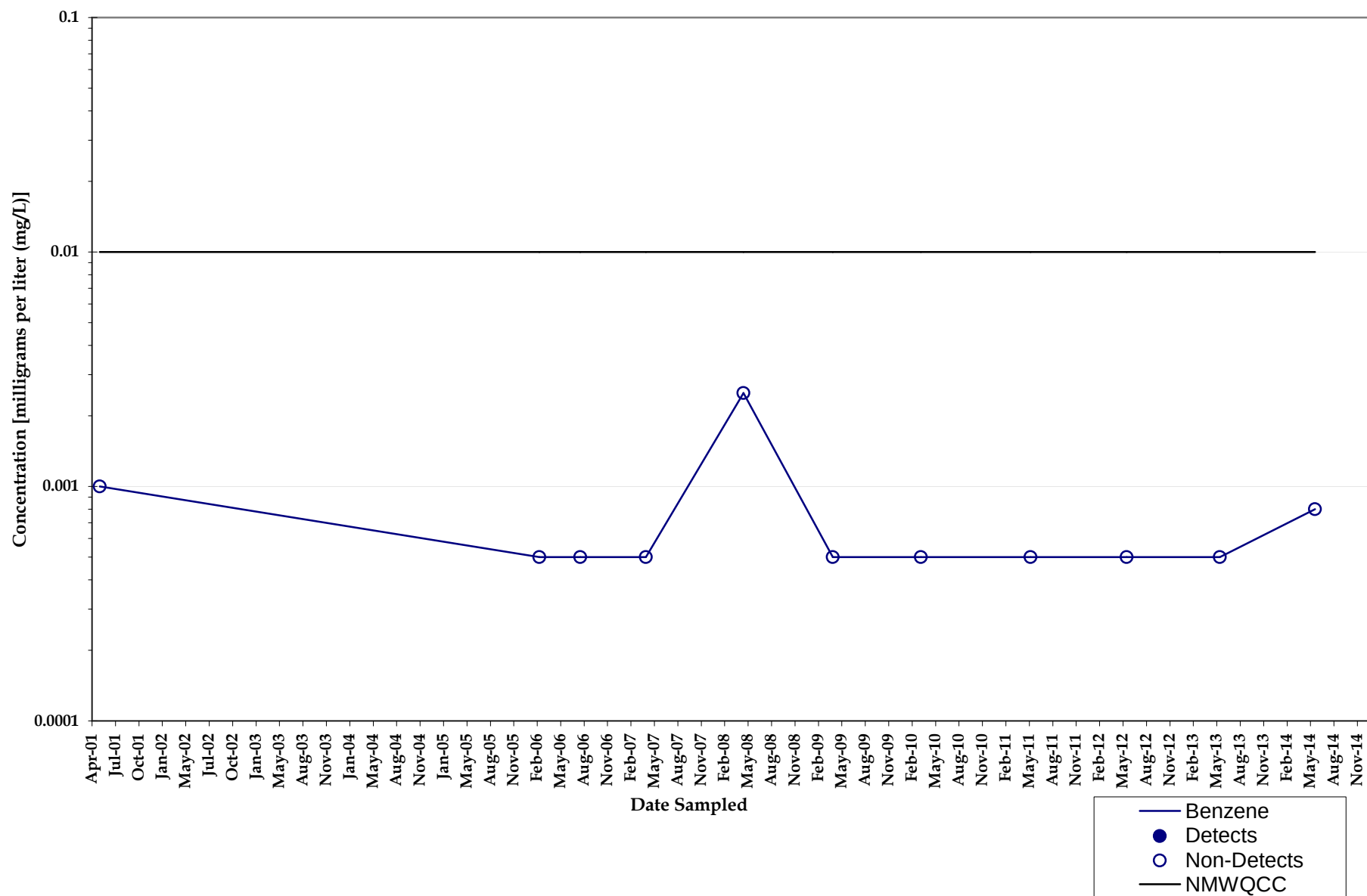


Benzene Concentrations Monitoring Well MW011M

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

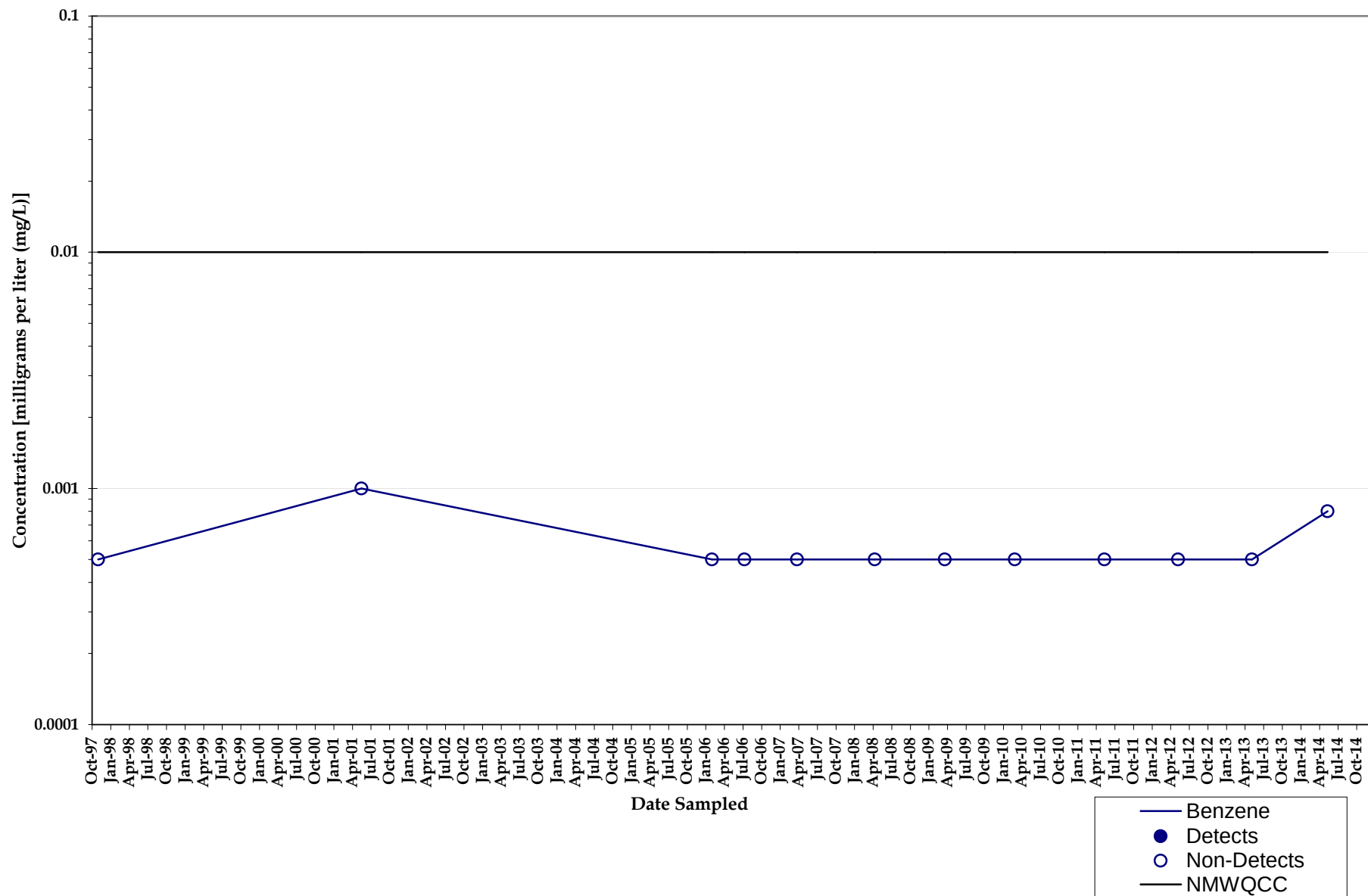


Benzene Concentrations Monitoring Well MW012

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

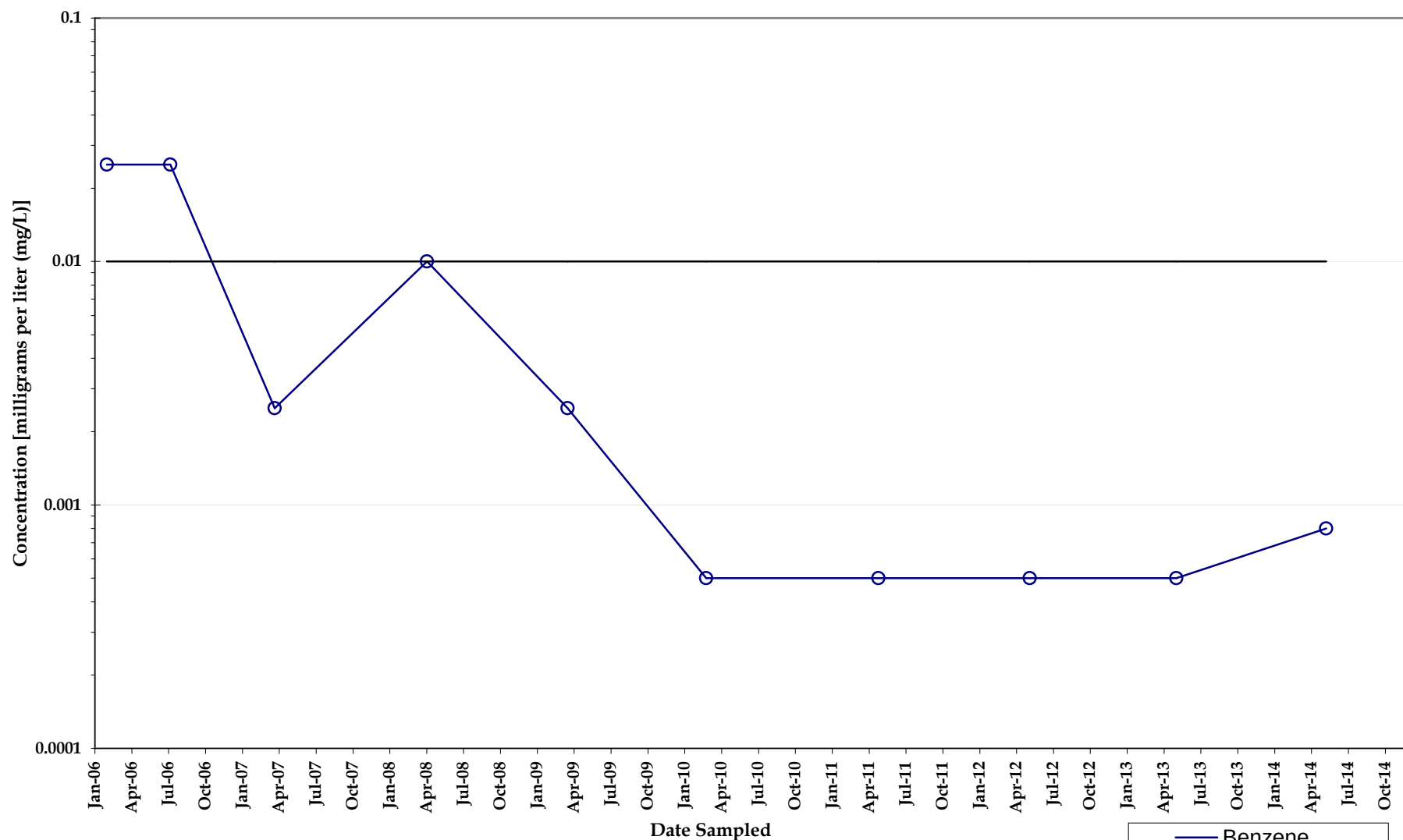


Benzene Concentrations Monitoring Well MW012A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

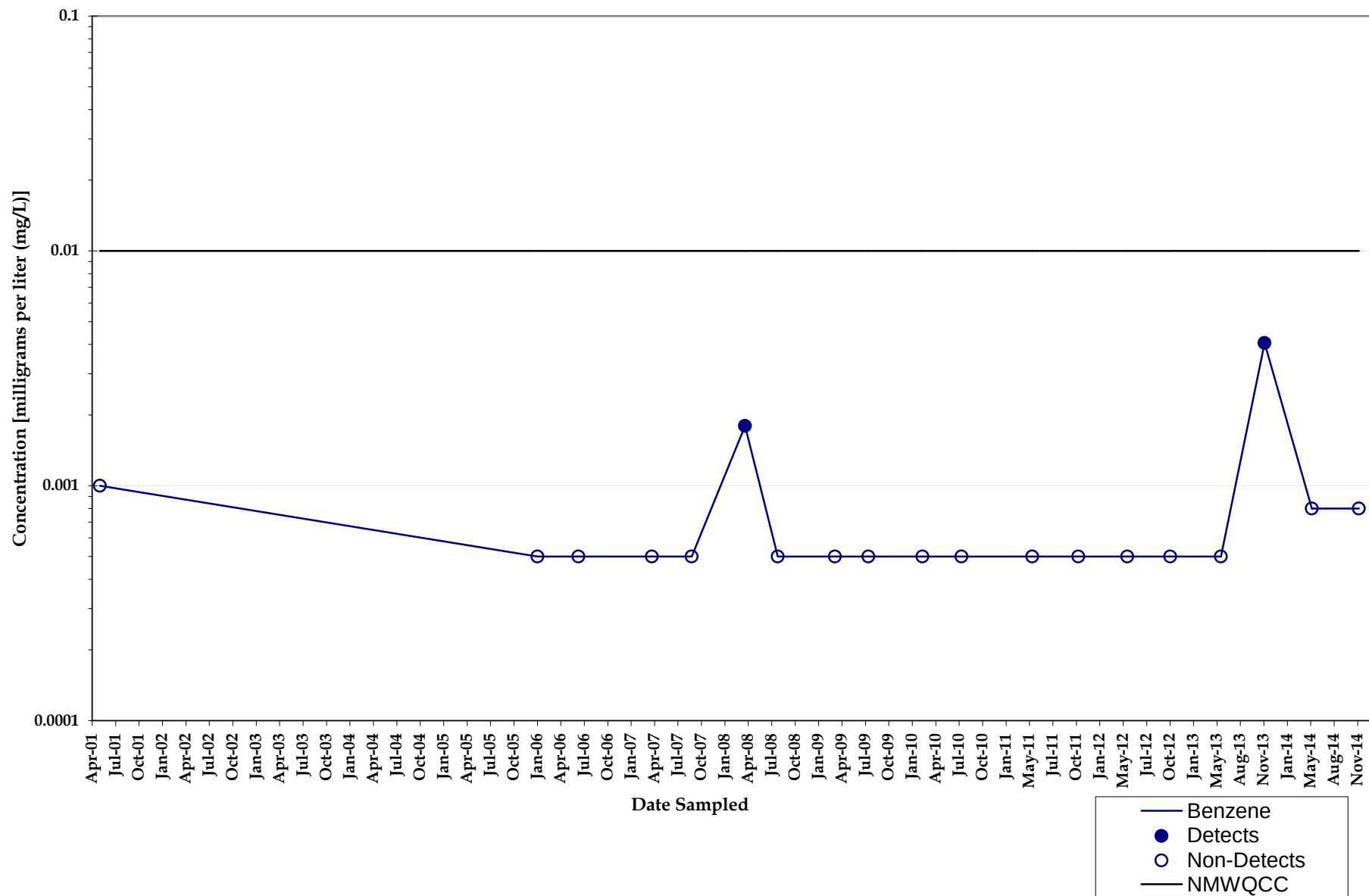


Benzene Concentrations Monitoring Well MW012M

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

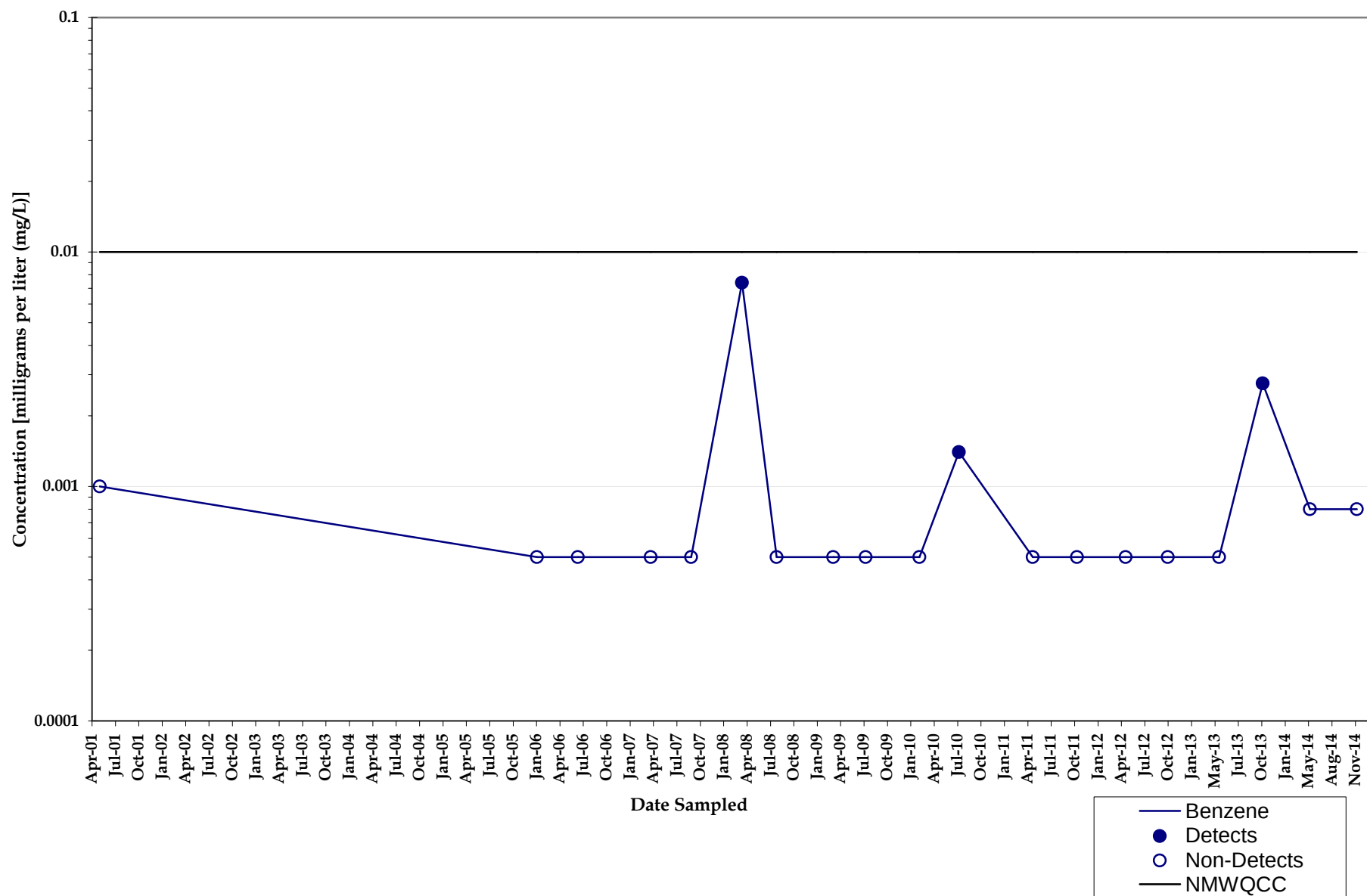


Benzene Concentrations Monitoring Well MW013

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

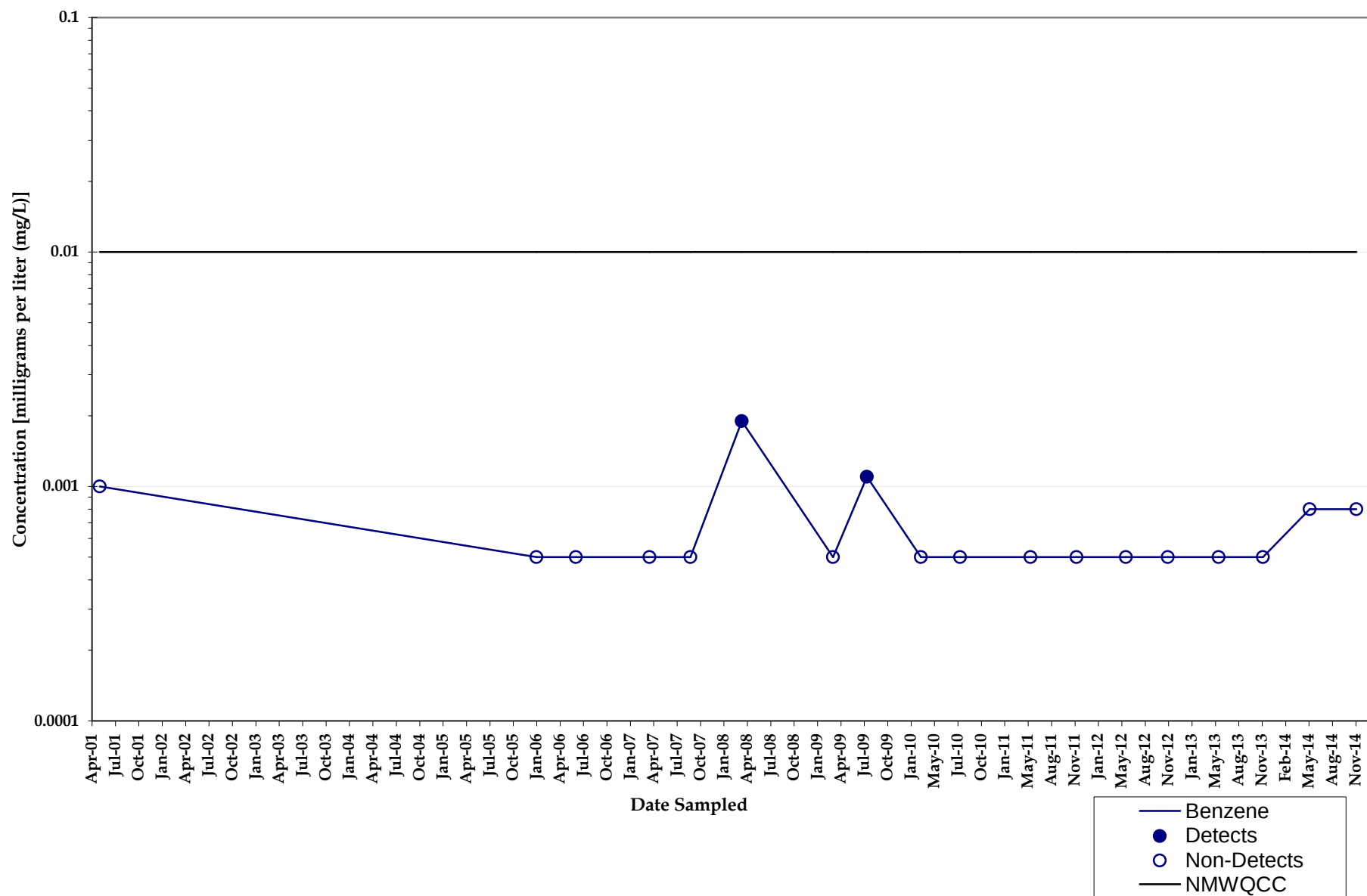


Benzene Concentrations Monitoring Well MW013A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

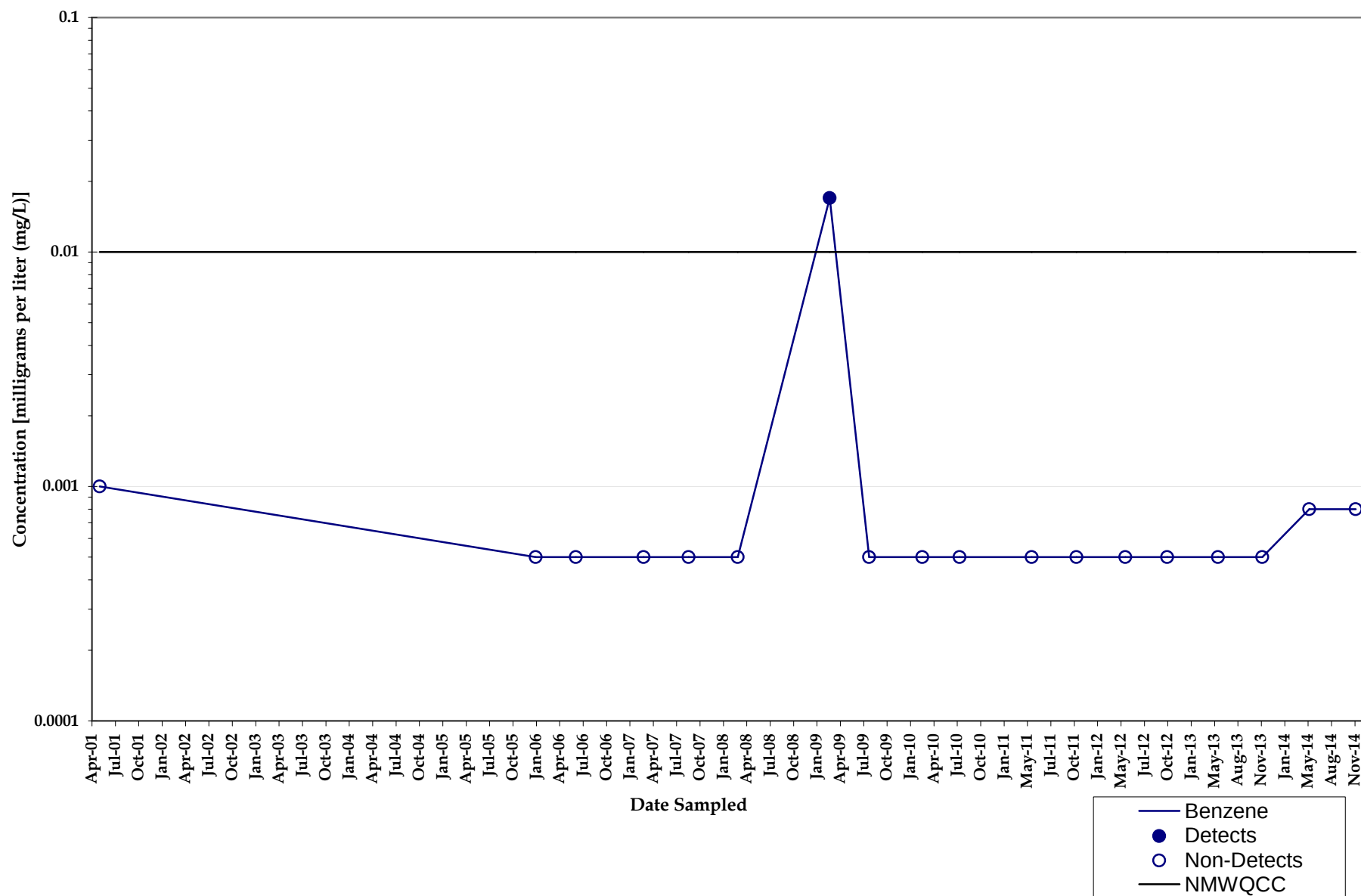


Benzene Concentrations Monitoring Well MW014

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

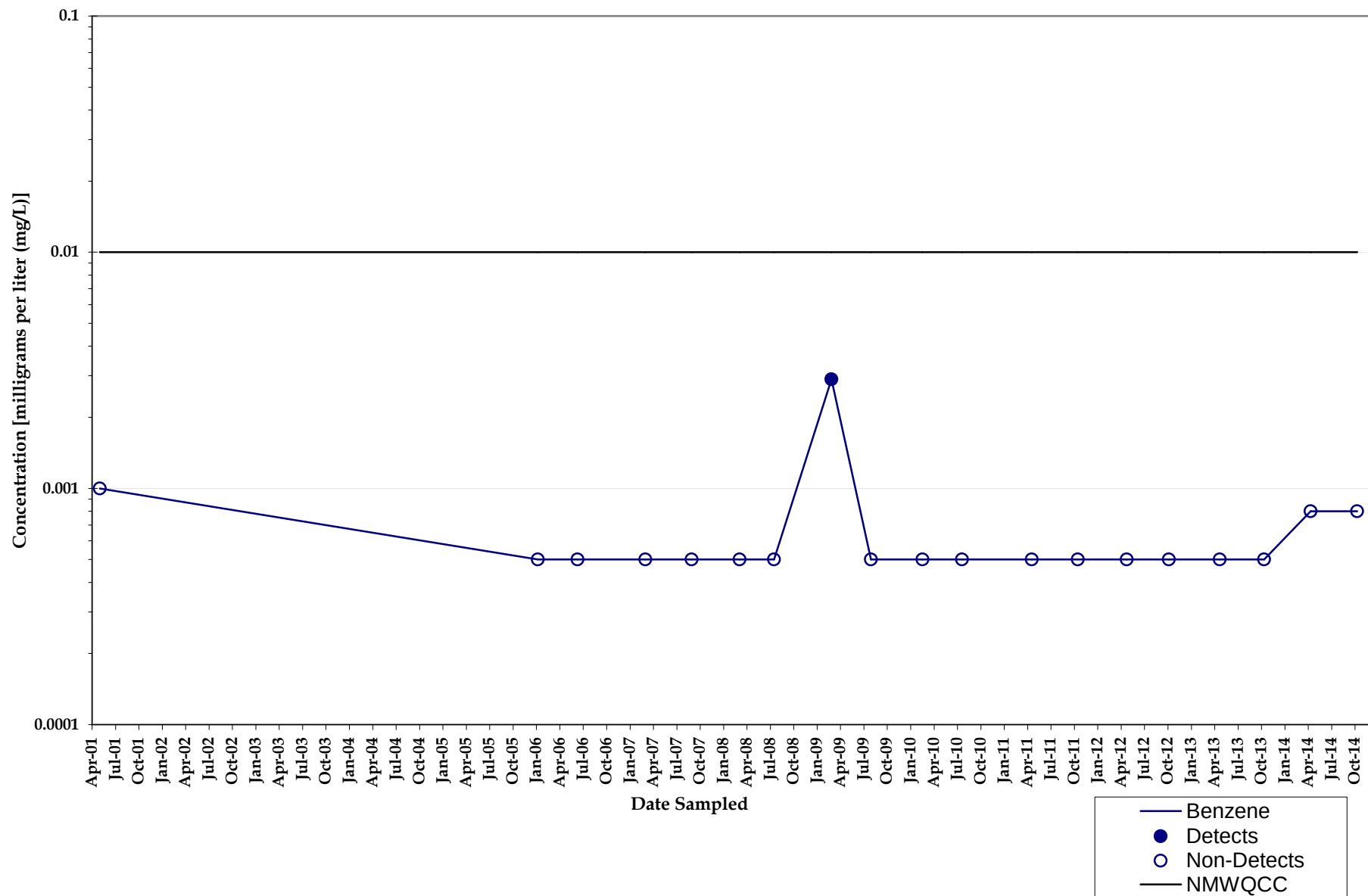


Benzene Concentrations Monitoring Well MW014A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

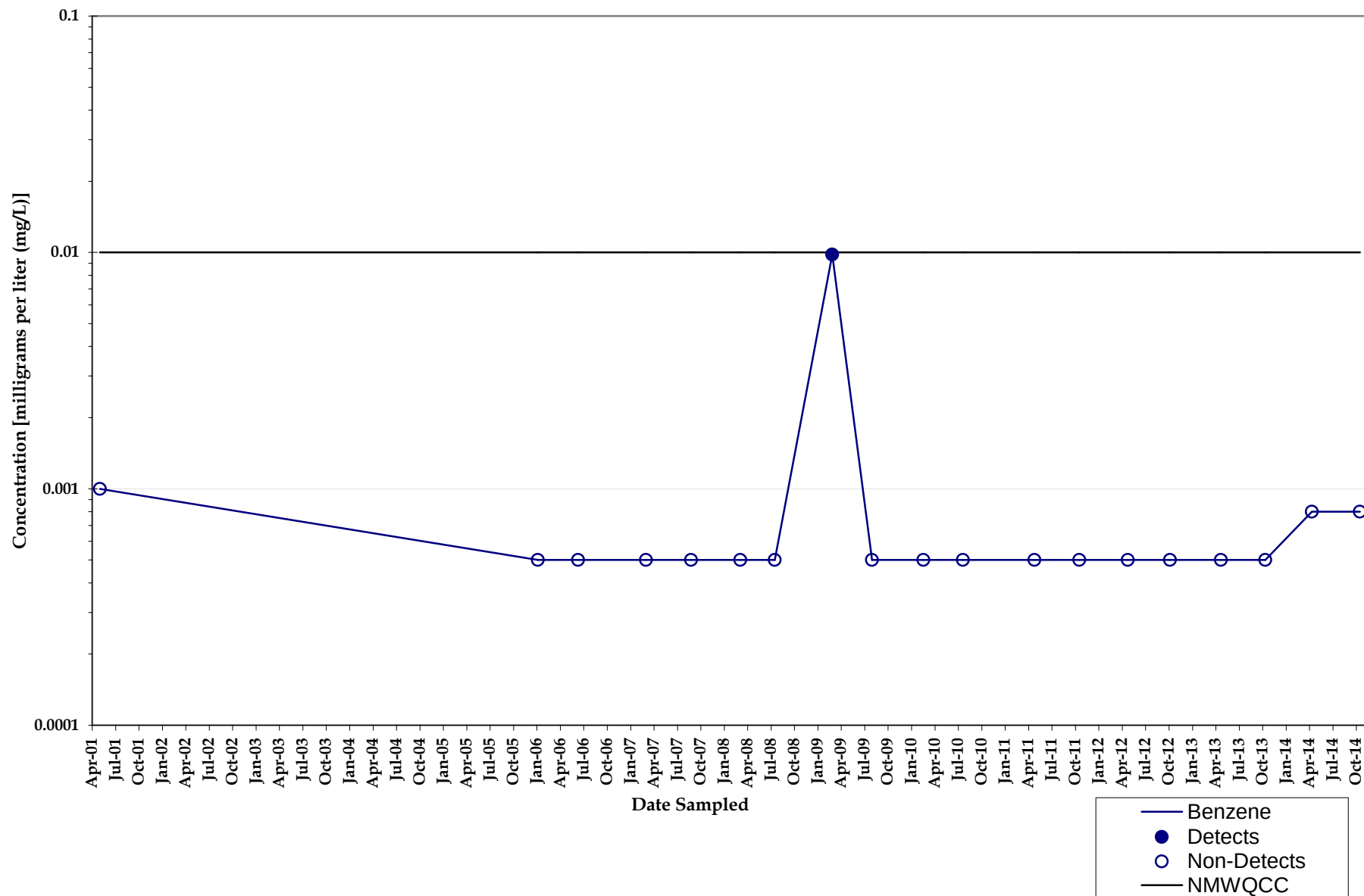


Benzene Concentrations Monitoring Well MW015

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

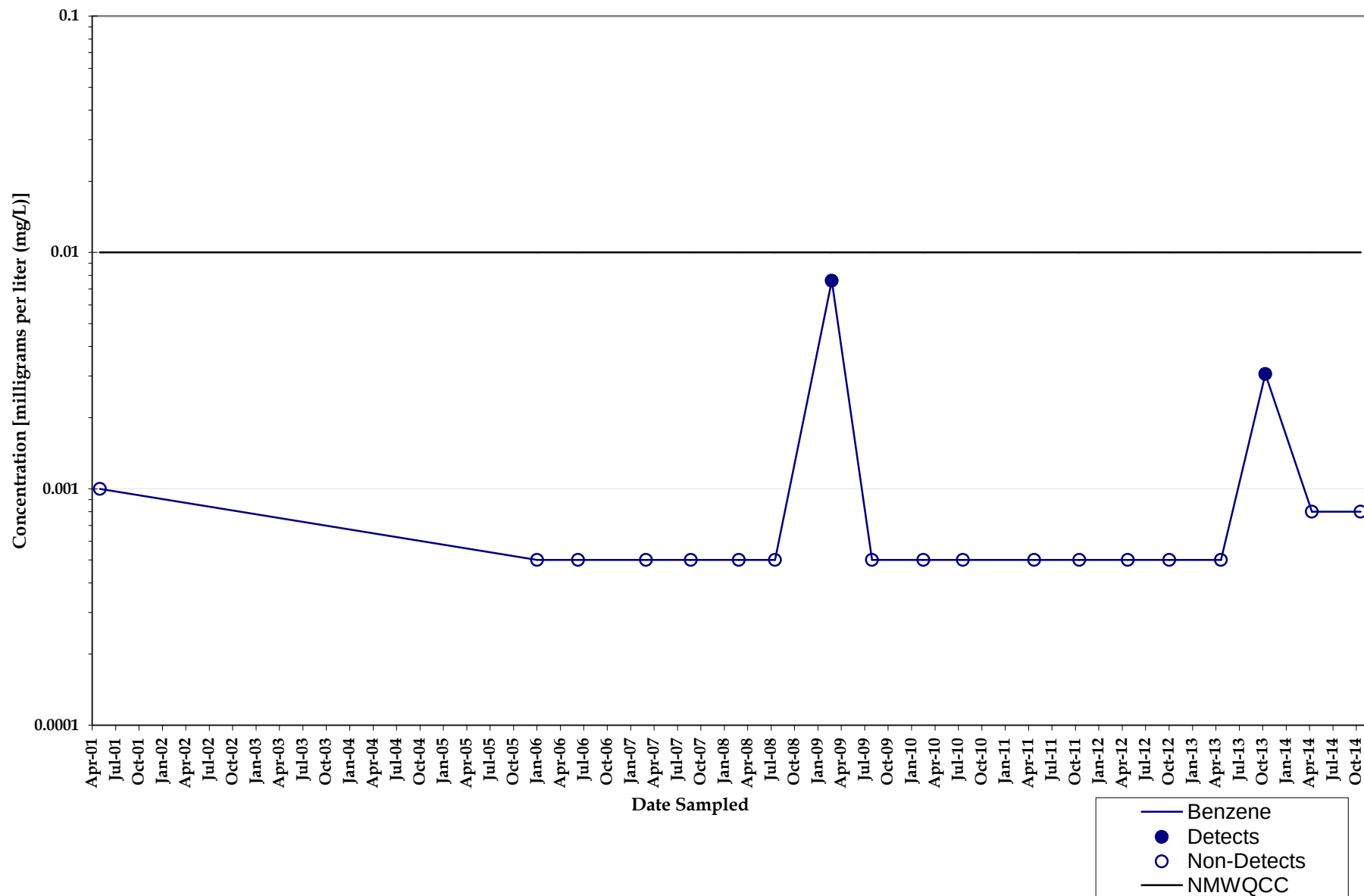


Benzene Concentrations Monitoring Well MW015A

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

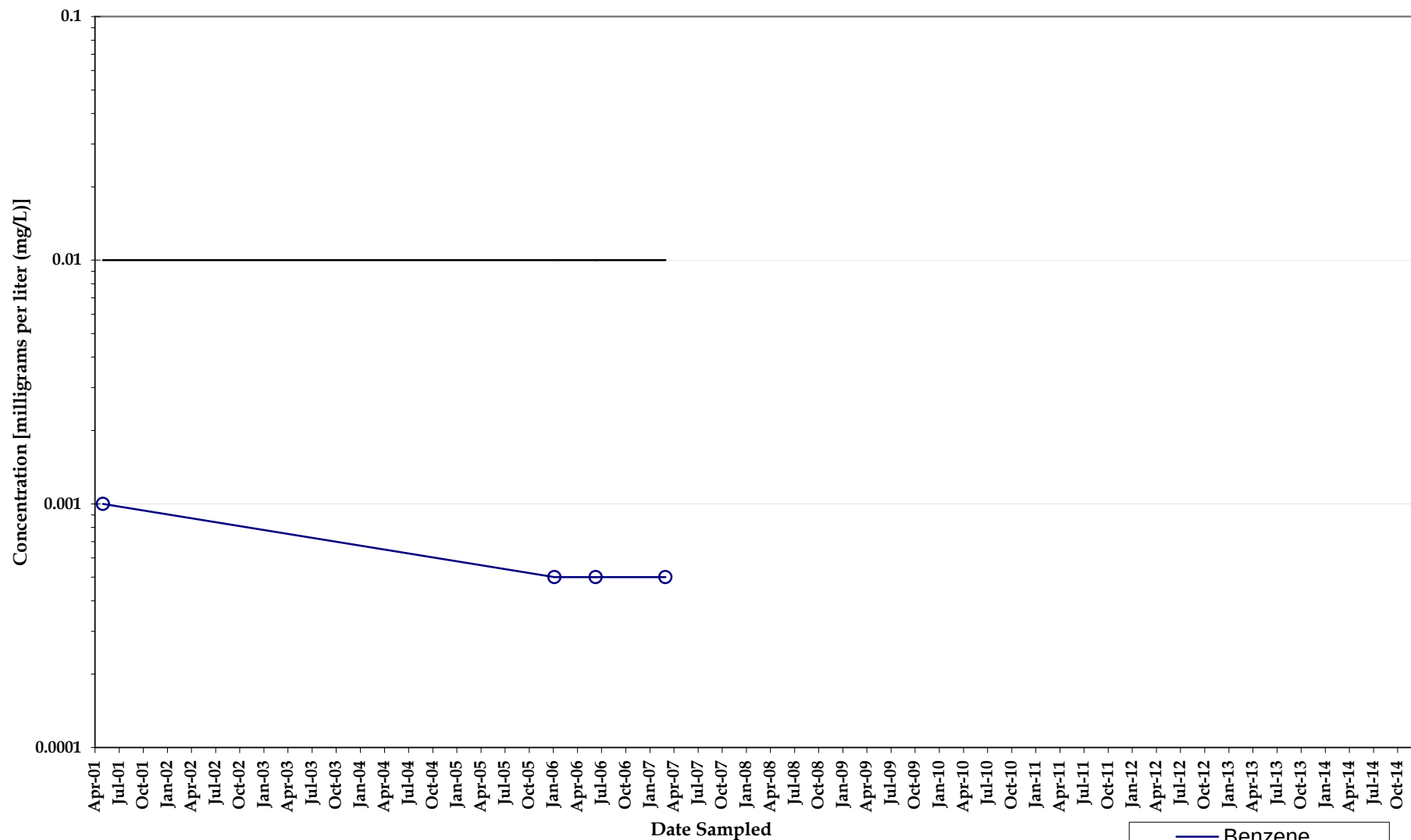


Benzene Concentrations Monitoring Well MW016A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

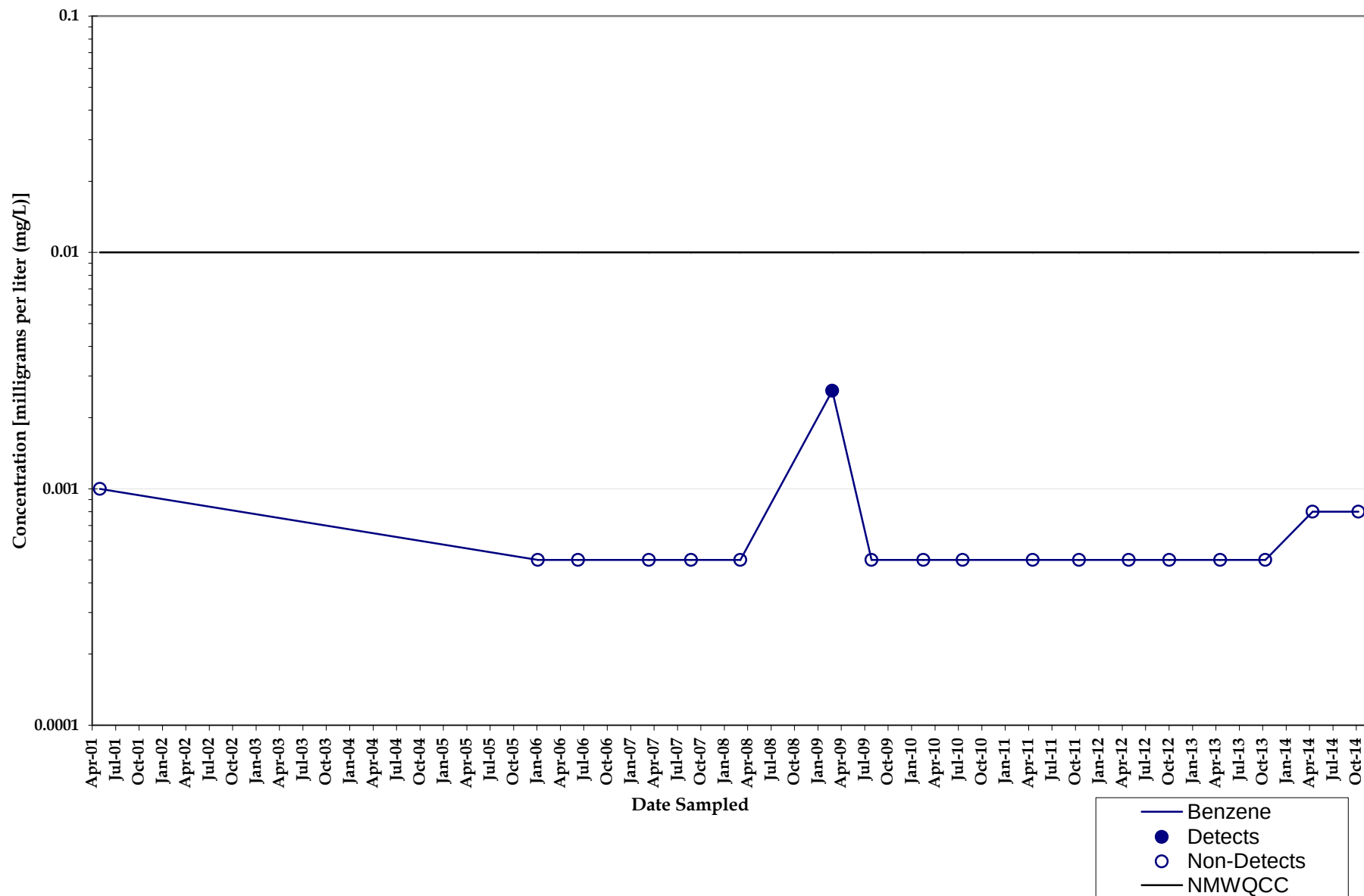


Benzene Concentrations Monitoring Well MW017A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

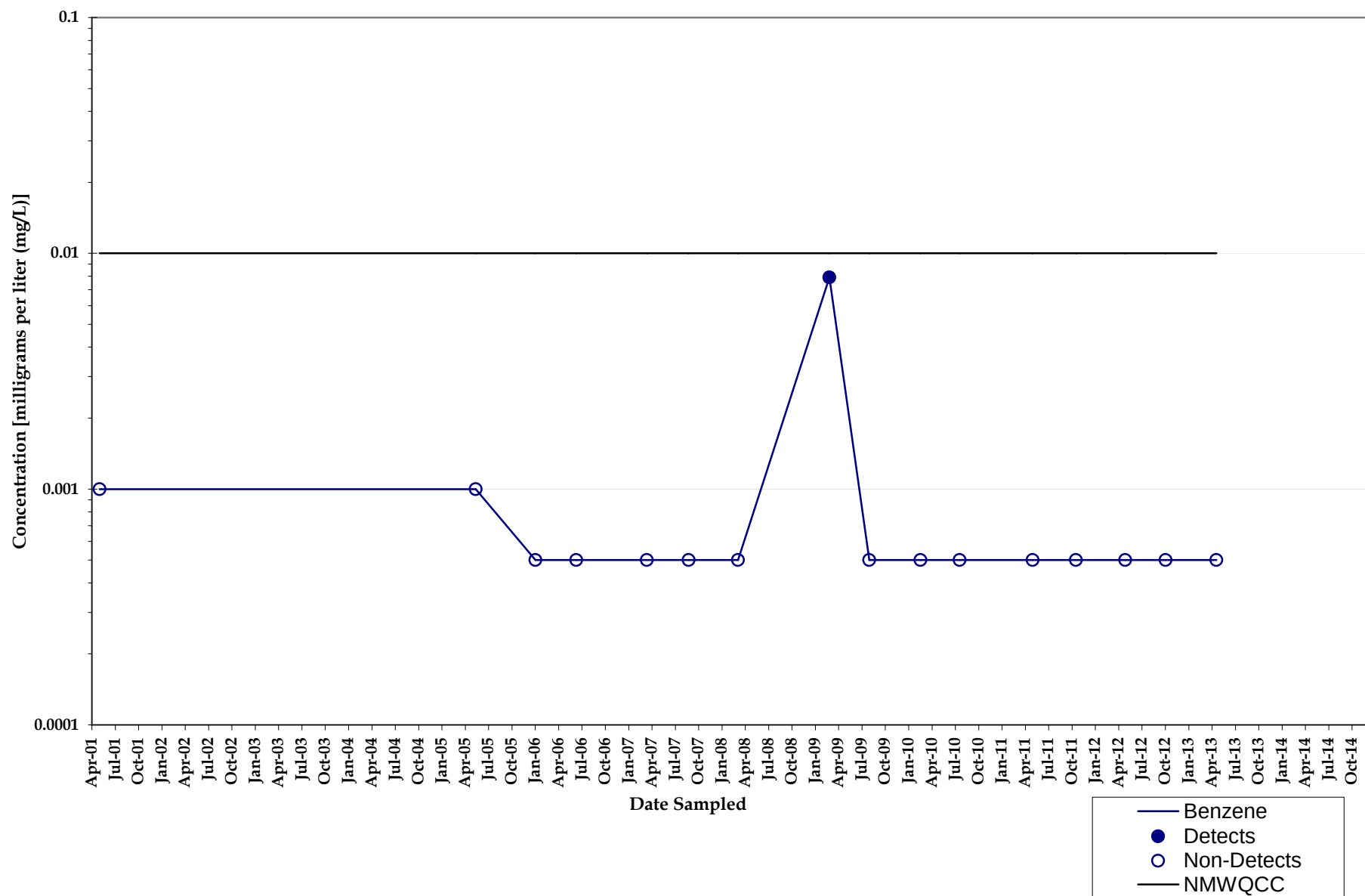


Benzene Concentrations Monitoring Well MW018

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

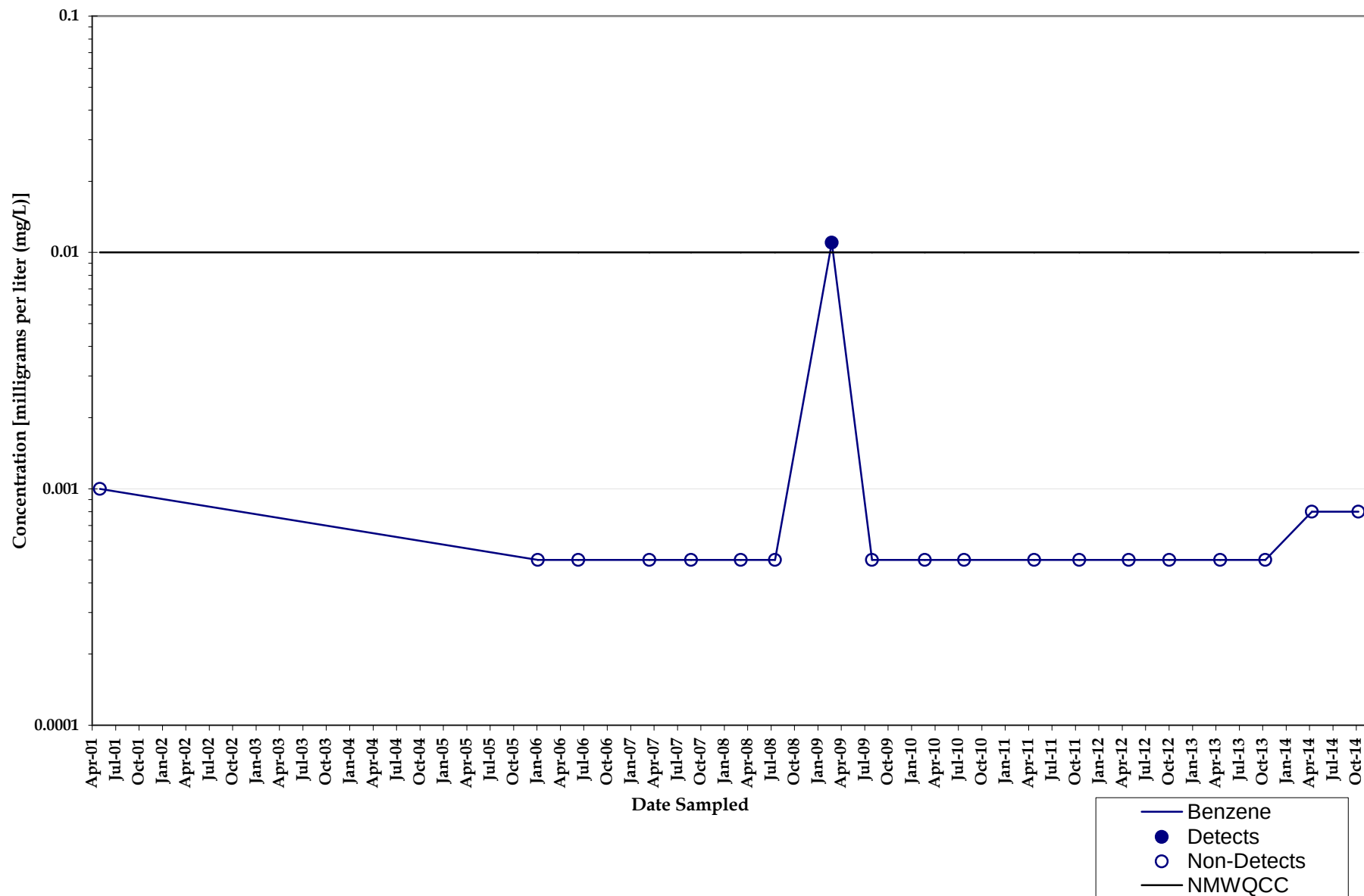


Benzene Concentrations Monitoring Well MW018A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

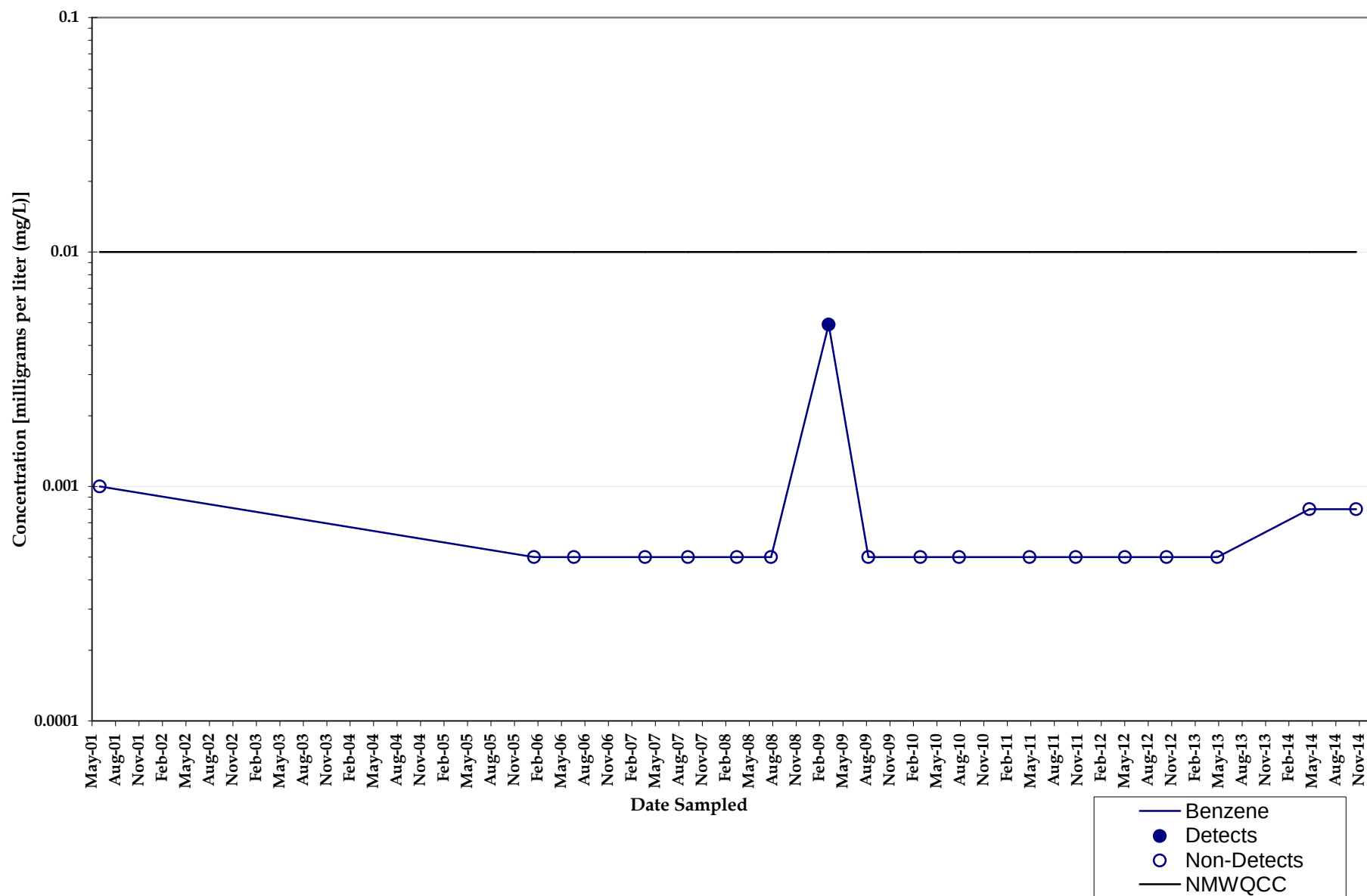


Benzene Concentrations Monitoring Well MW019A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

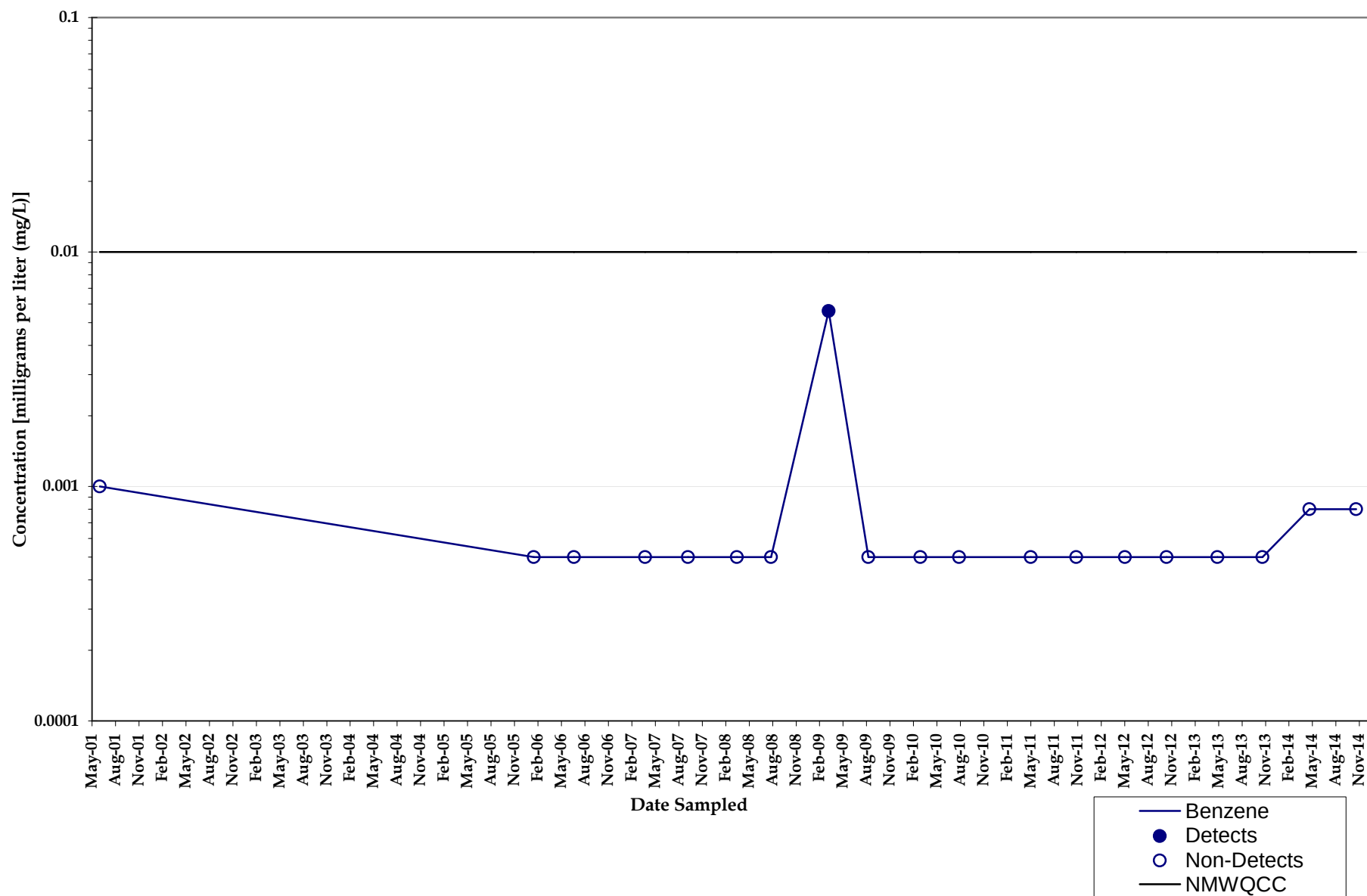


Benzene Concentrations Monitoring Well MW020

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

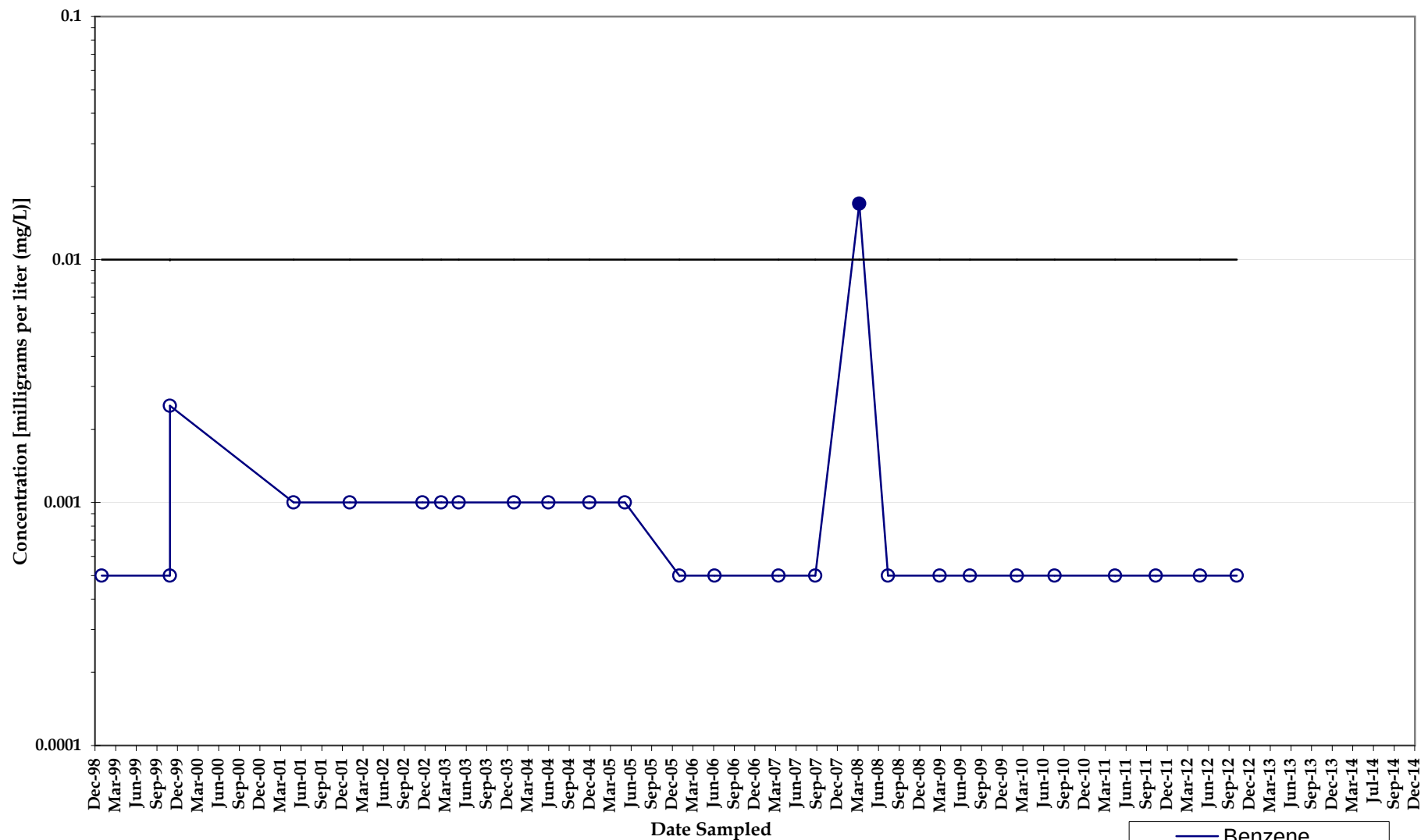


Benzene Concentrations Monitoring Well MW020A

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

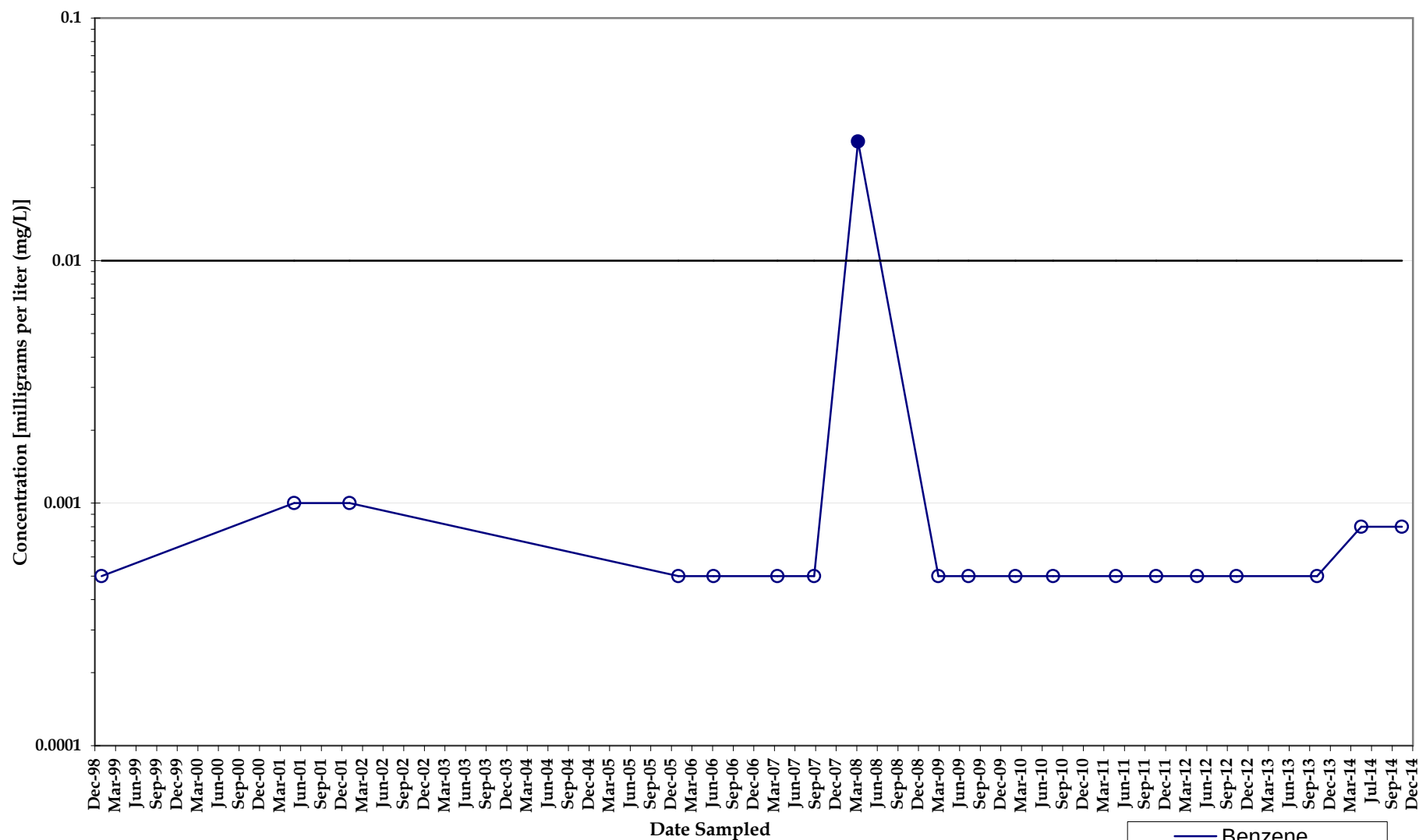


Benzene Concentrations Monitoring Well MW021

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

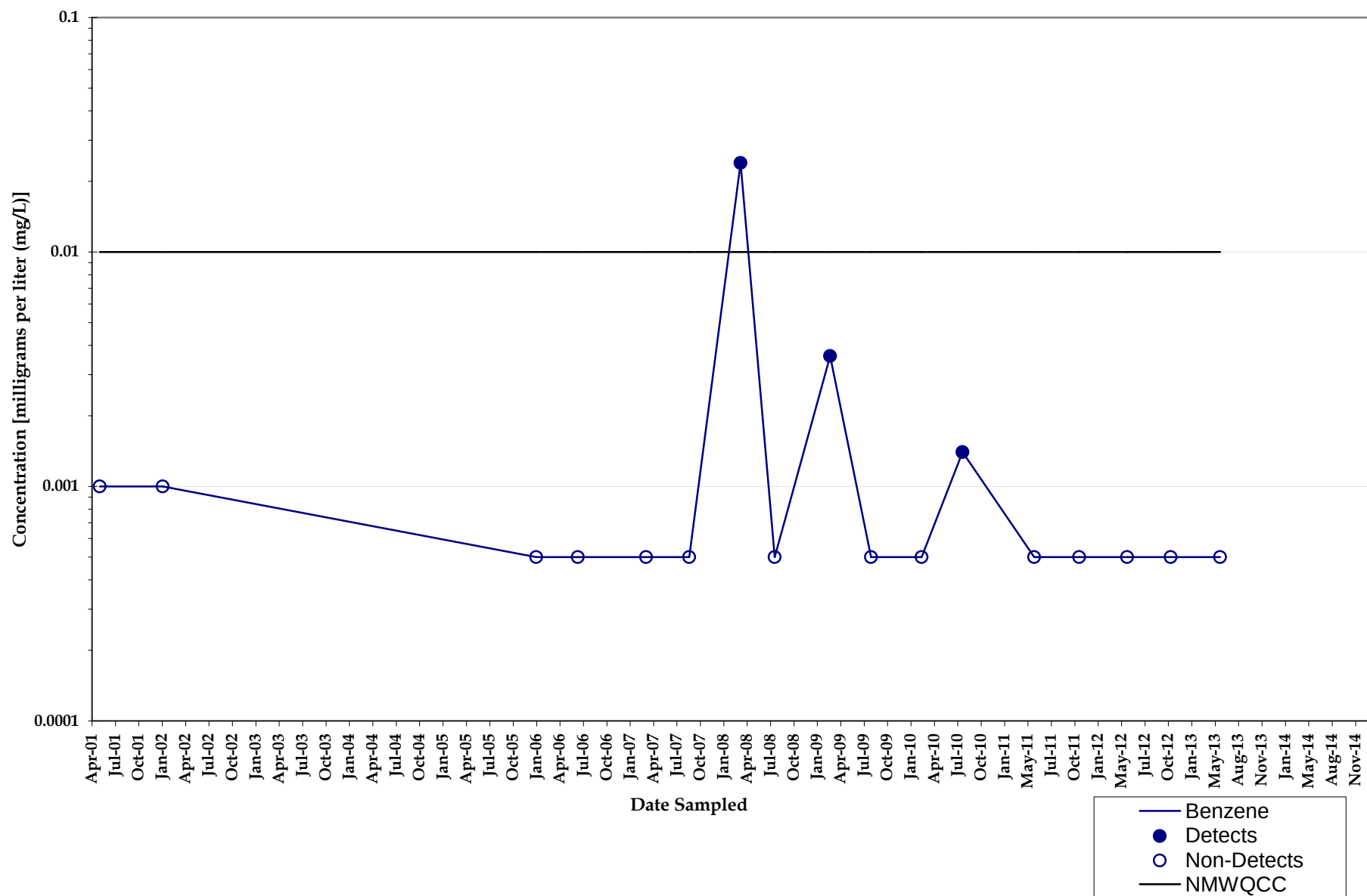


Benzene Concentrations Monitoring Well MW021A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

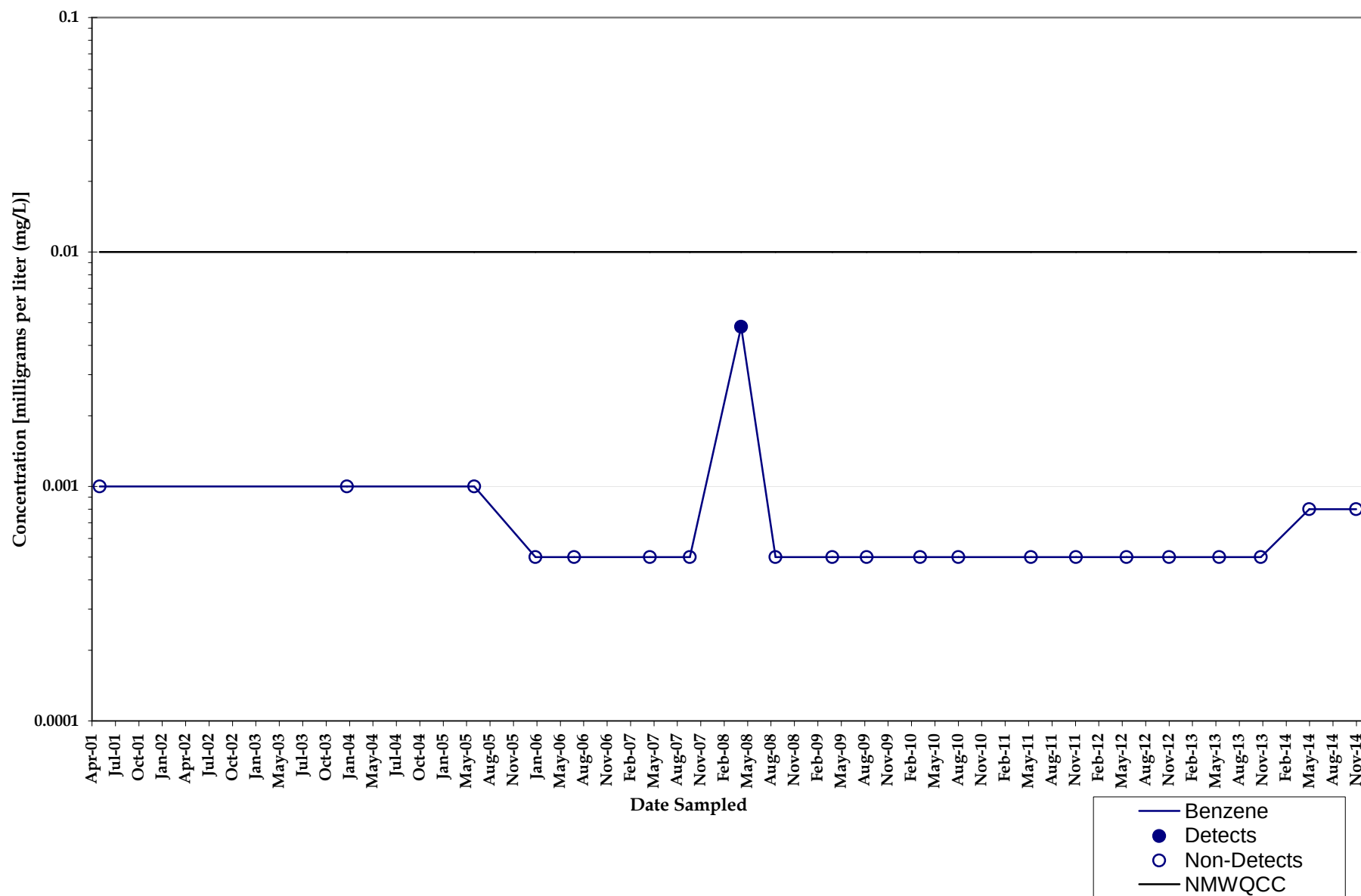


Benzene Concentrations Monitoring Well MW022A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

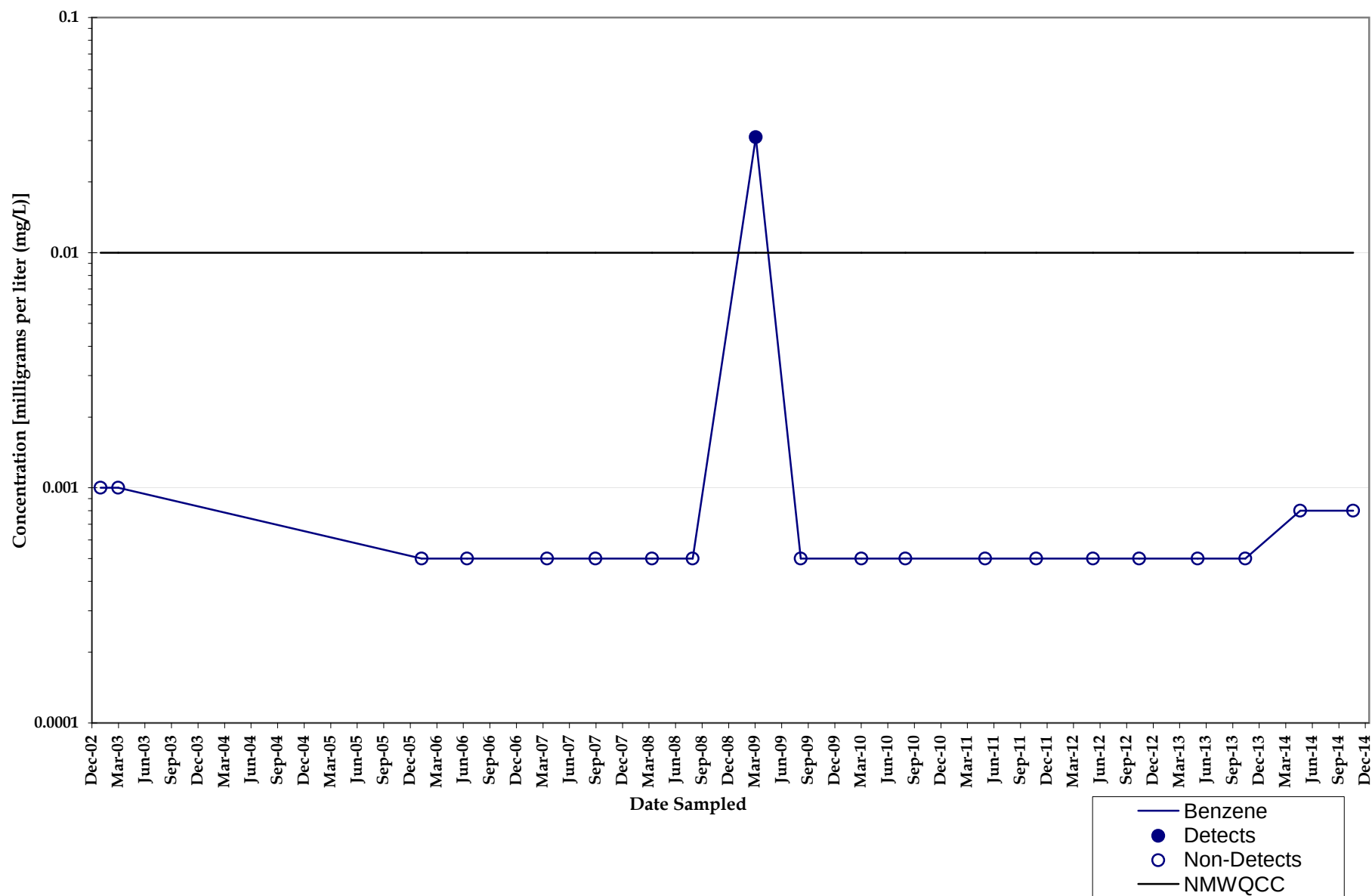


Benzene Concentrations Monitoring Well MW023

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

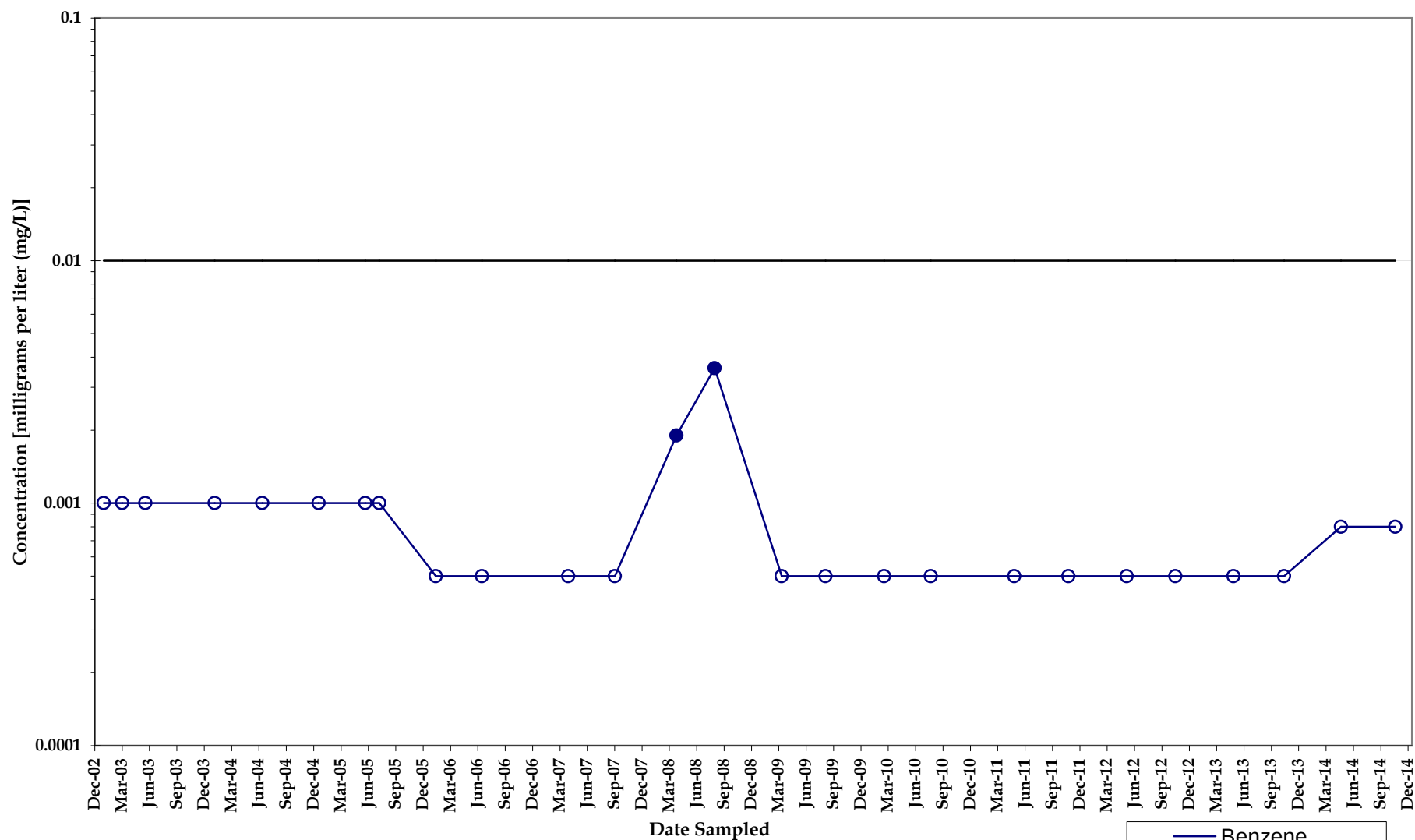


Benzene Concentrations Monitoring Well MW023A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

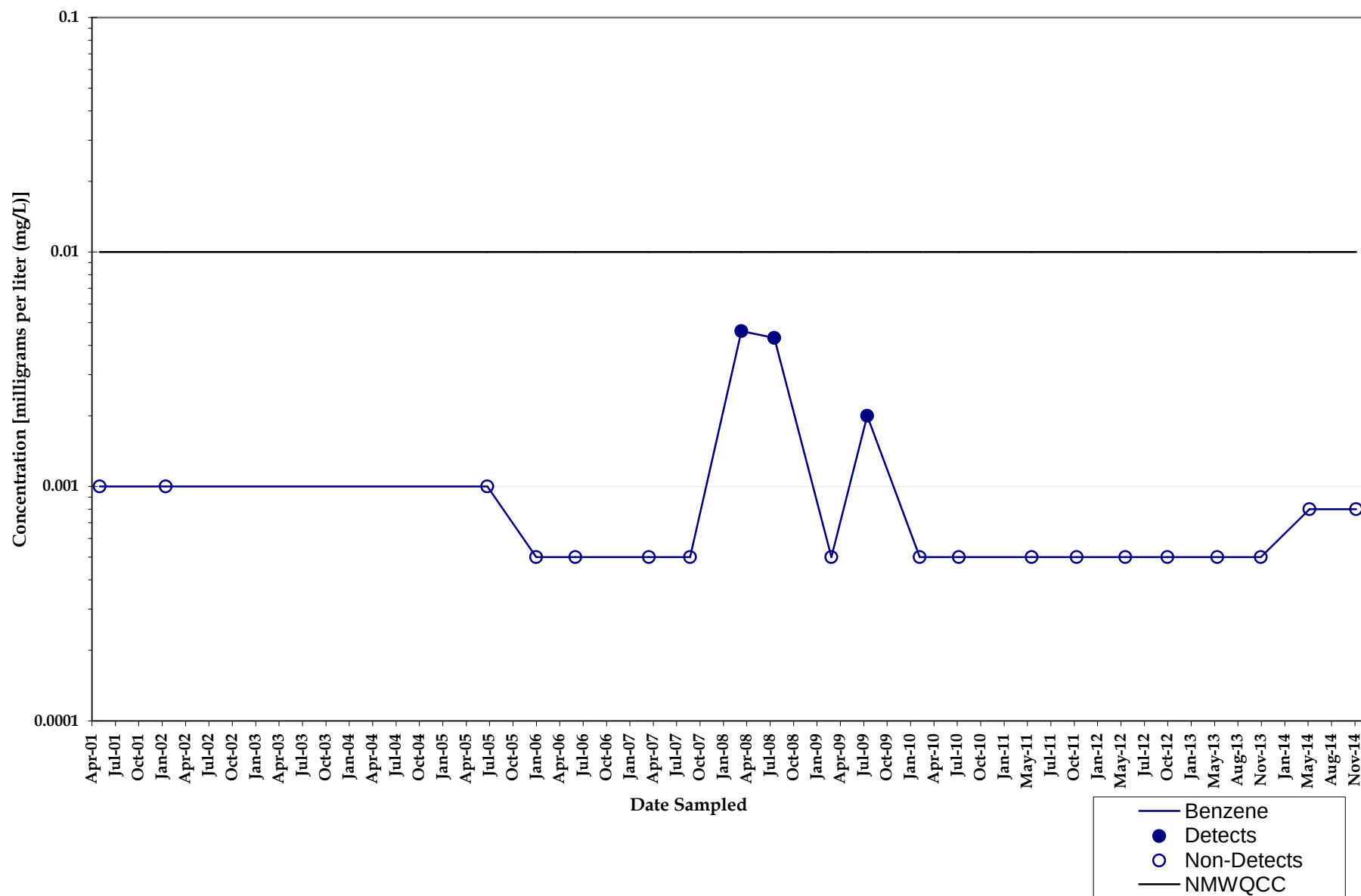


Benzene Concentrations Monitoring Well MW024

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

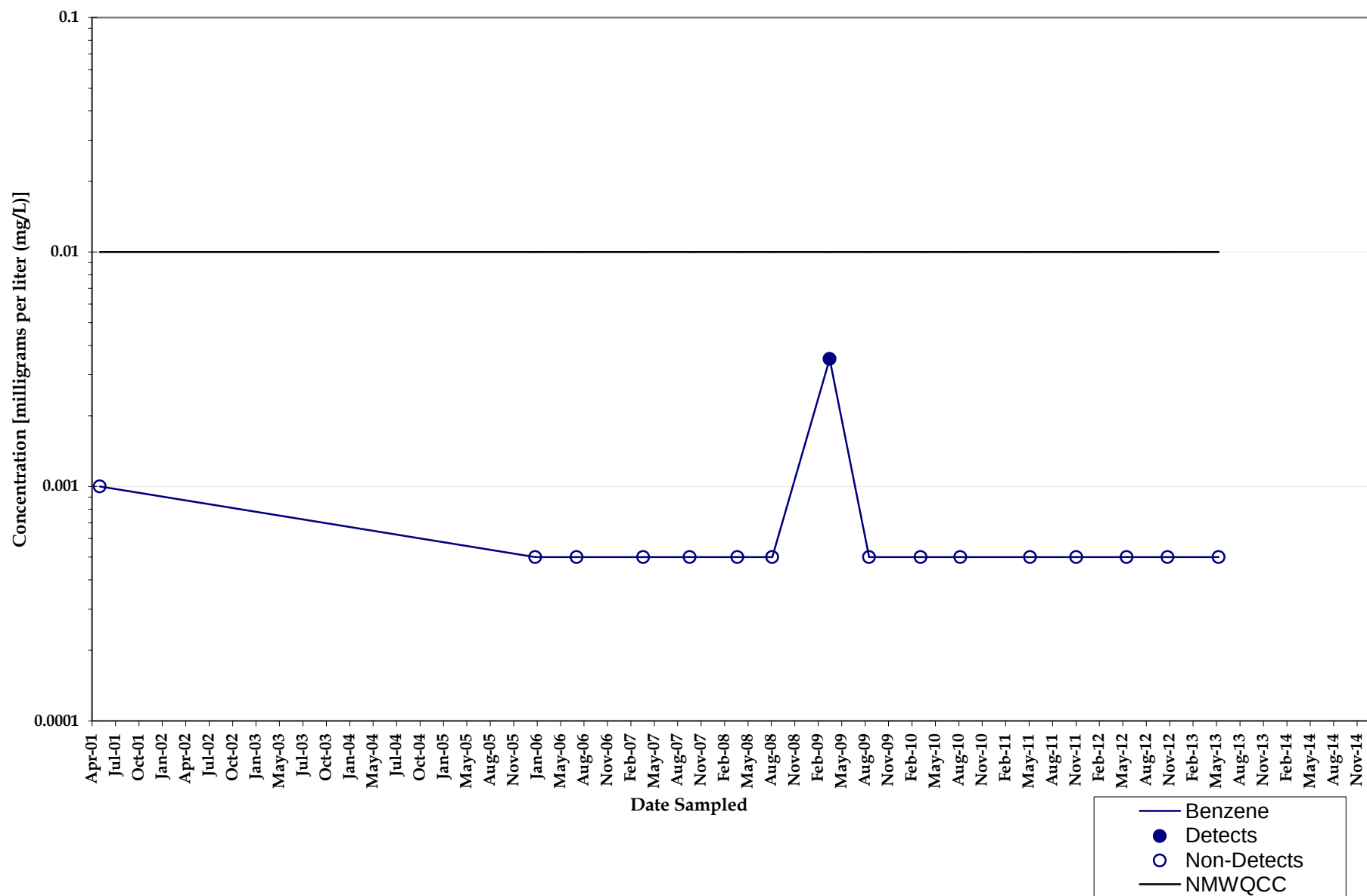


Benzene Concentrations Monitoring Well MW024A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by shaded symbol and detection values greater than the RL denoted by shaded symbol.

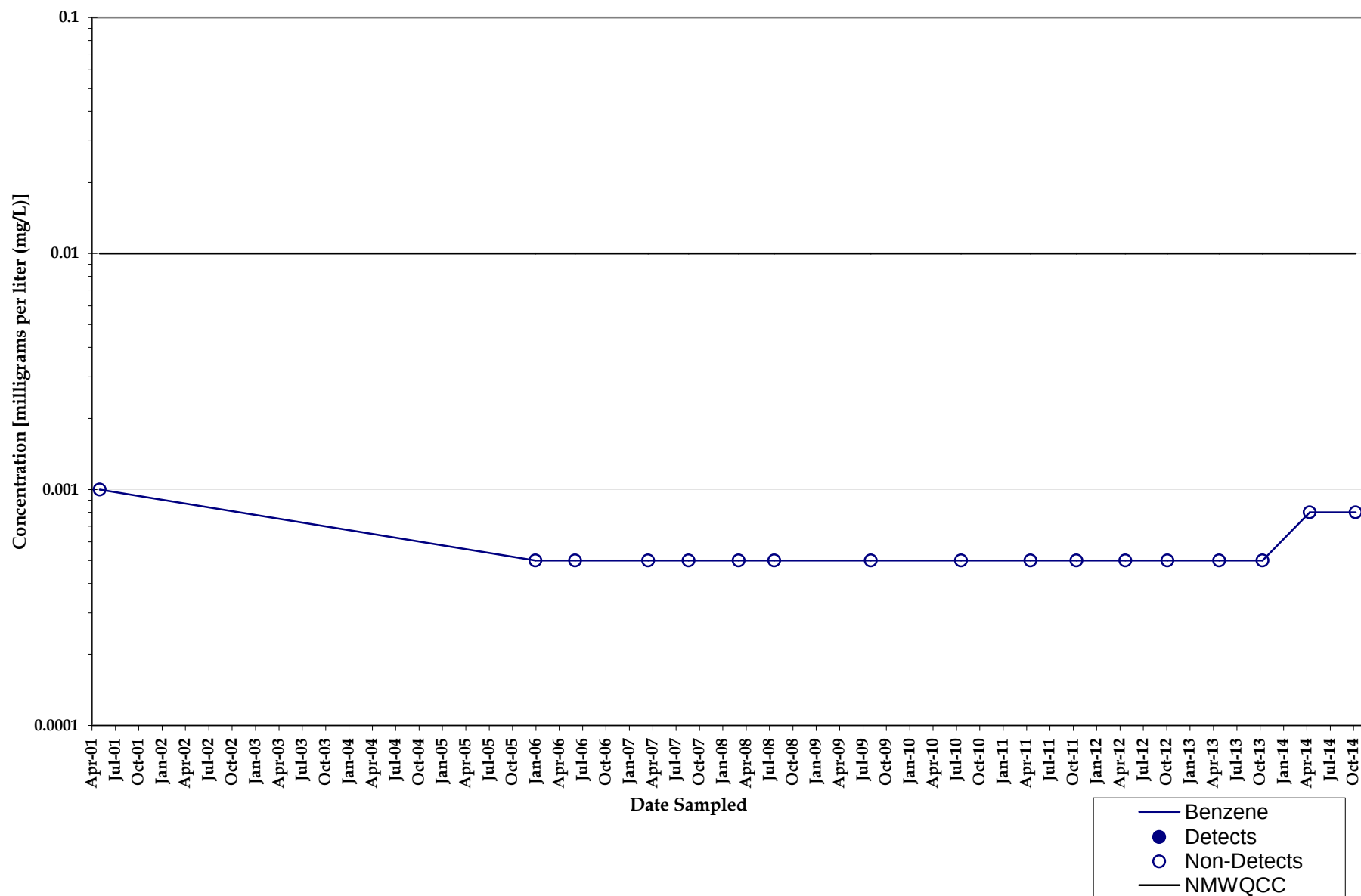


Benzene Concentrations Monitoring Well MW025

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

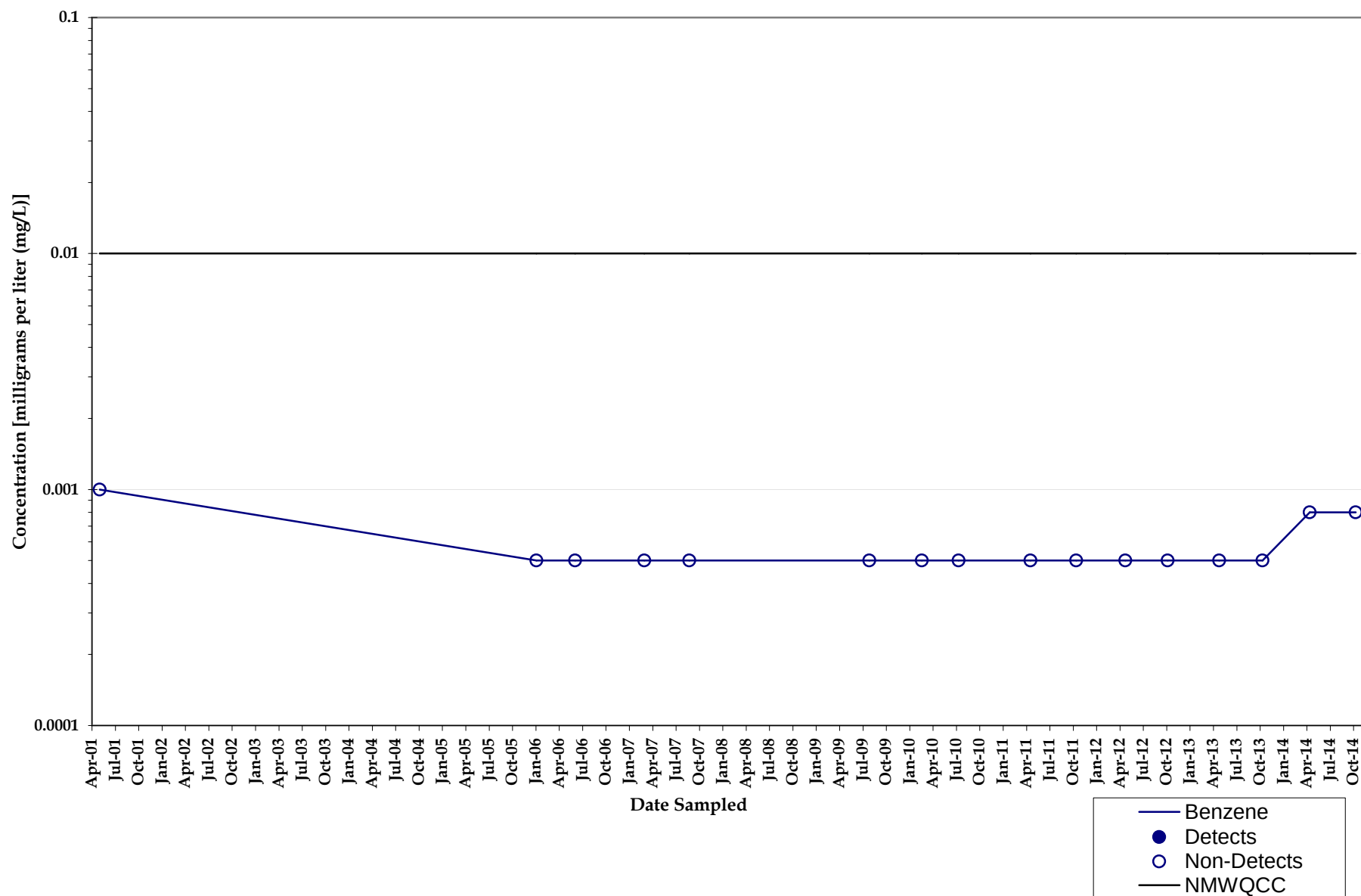


Benzene Concentrations Monitoring Well MW026

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

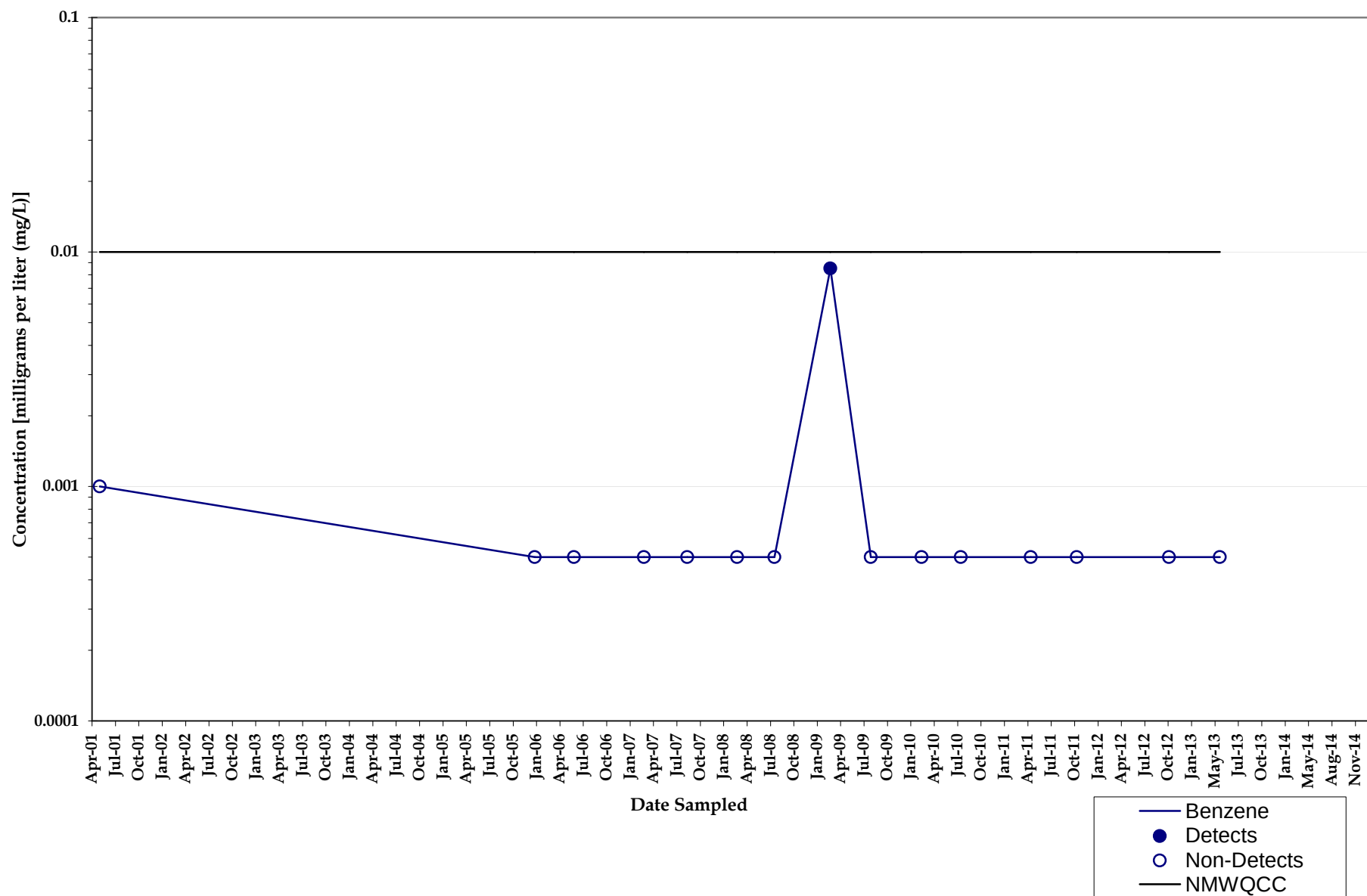


Benzene Concentrations Monitoring Well MW027

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

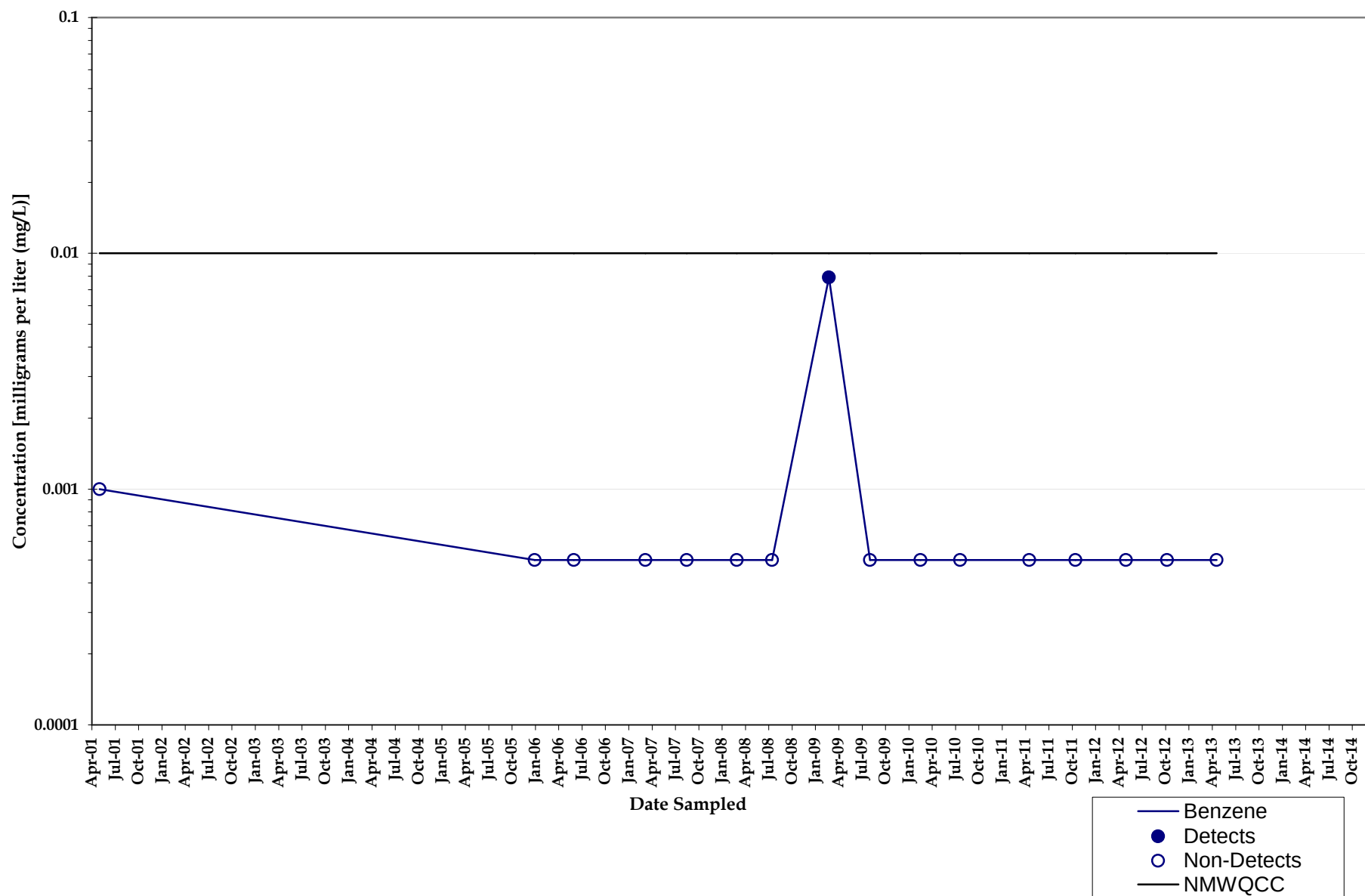


Benzene Concentrations Monitoring Well MW028

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

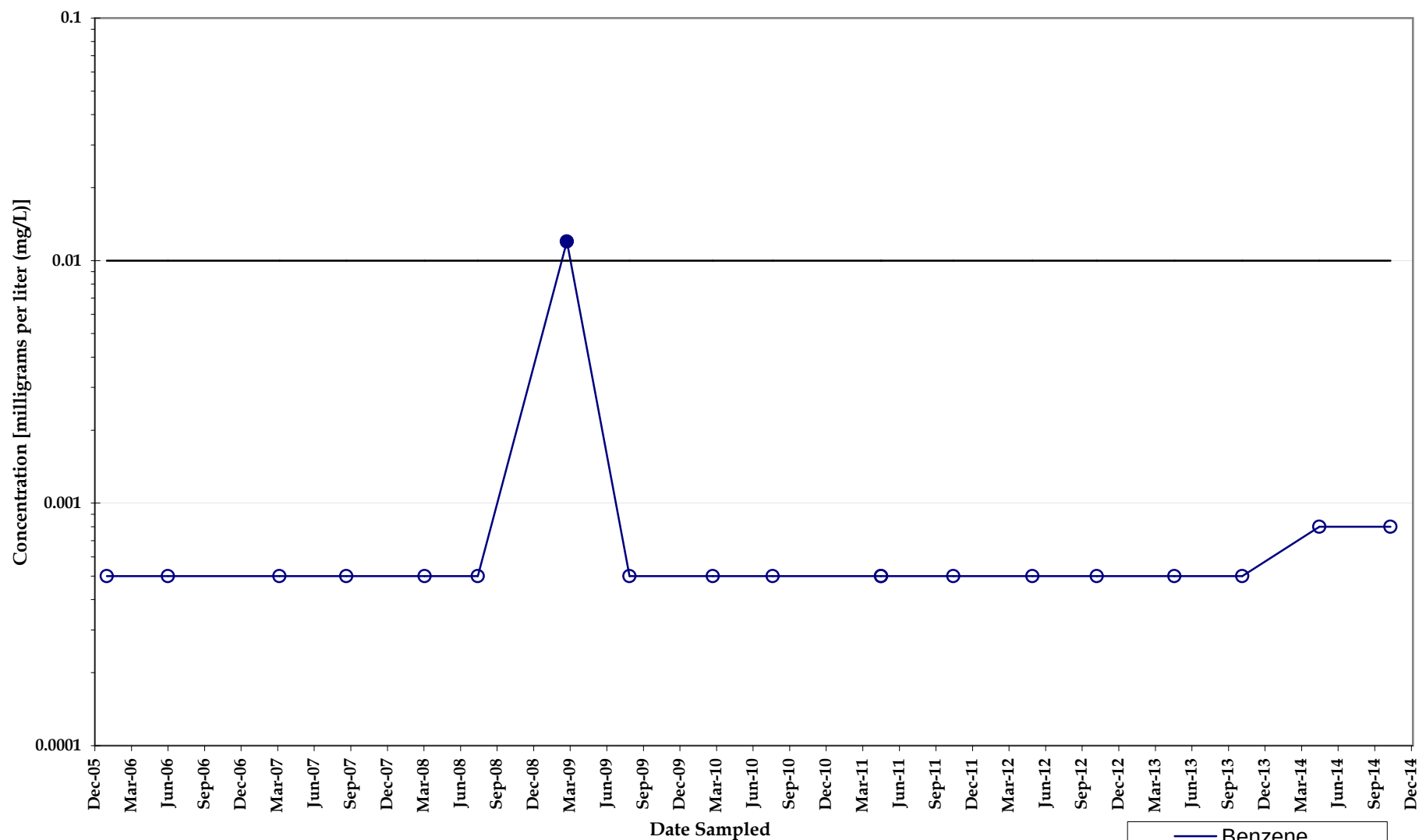


Benzene Concentrations Monitoring Well MW029

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

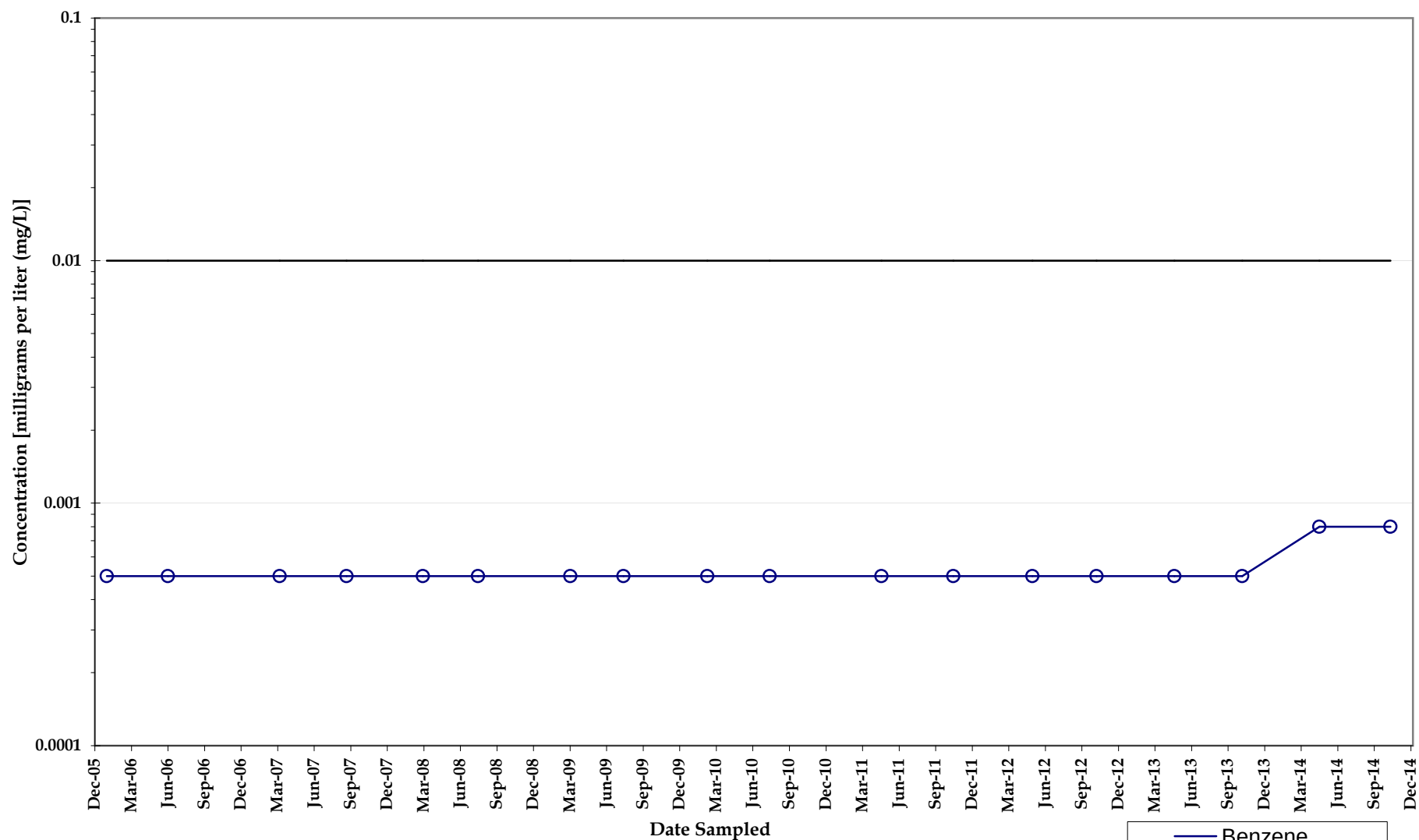


Benzene Concentrations Monitoring Well MW030

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

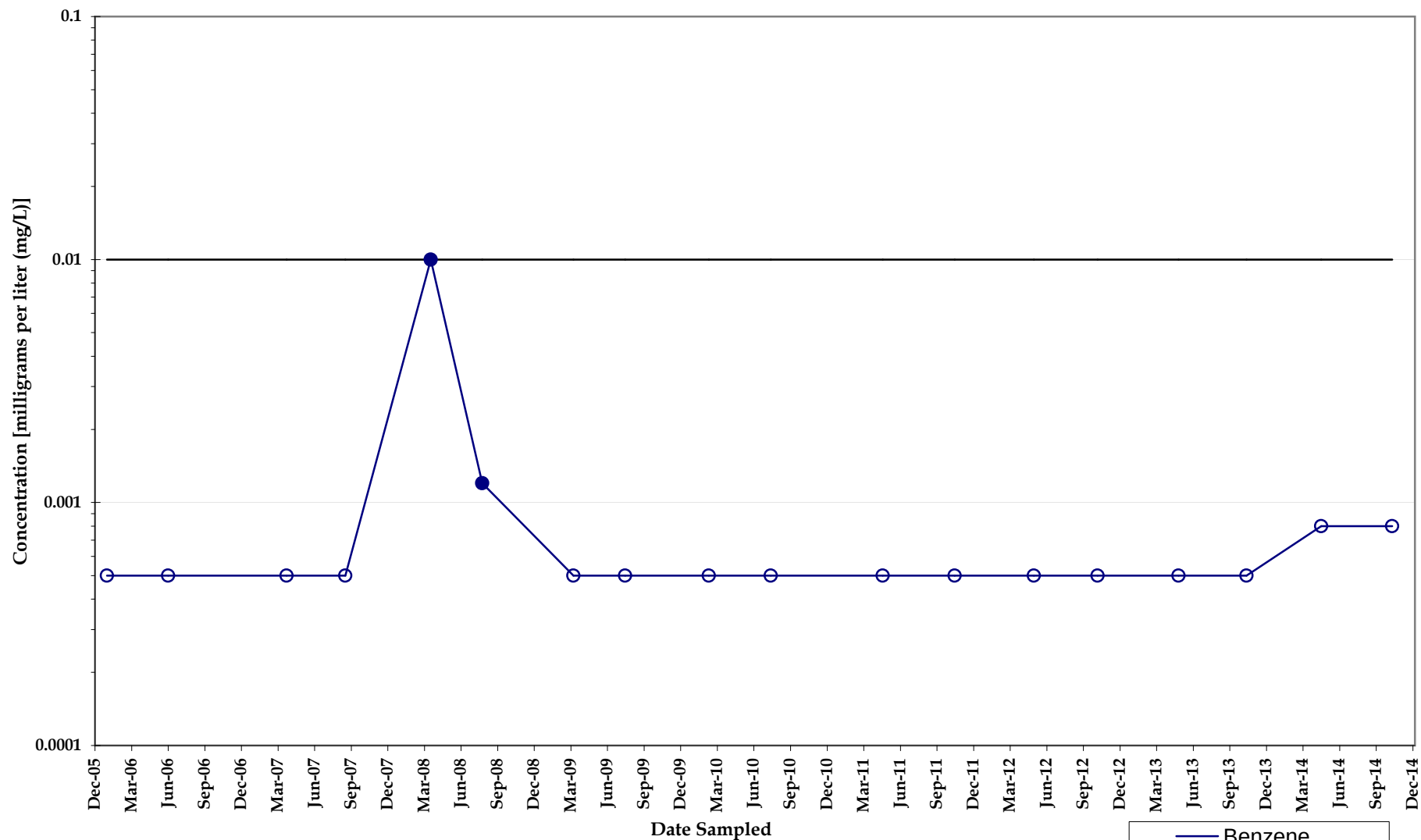


Benzene Concentrations Monitoring Well MW031

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

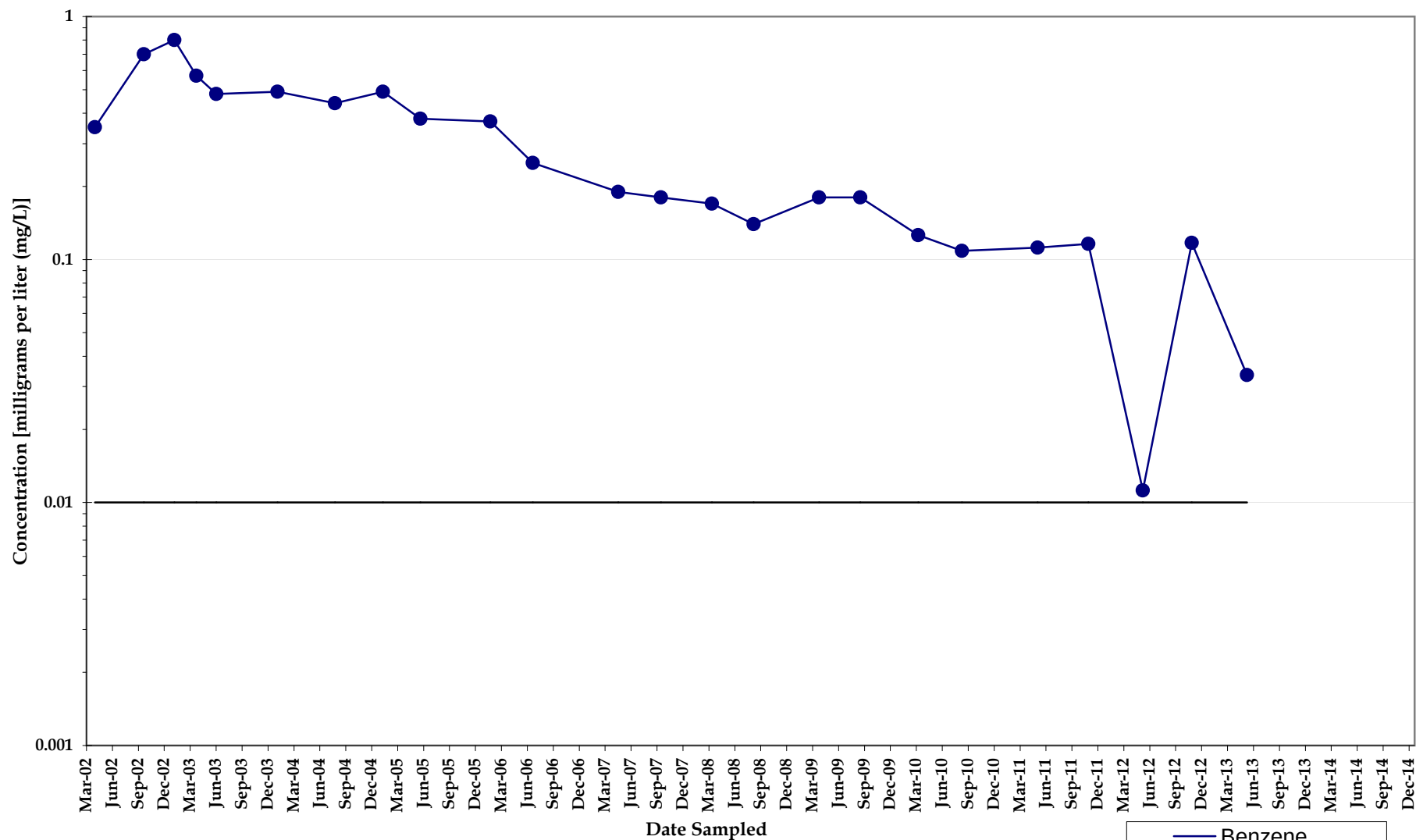


Benzene Concentrations Monitoring Well MW032

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

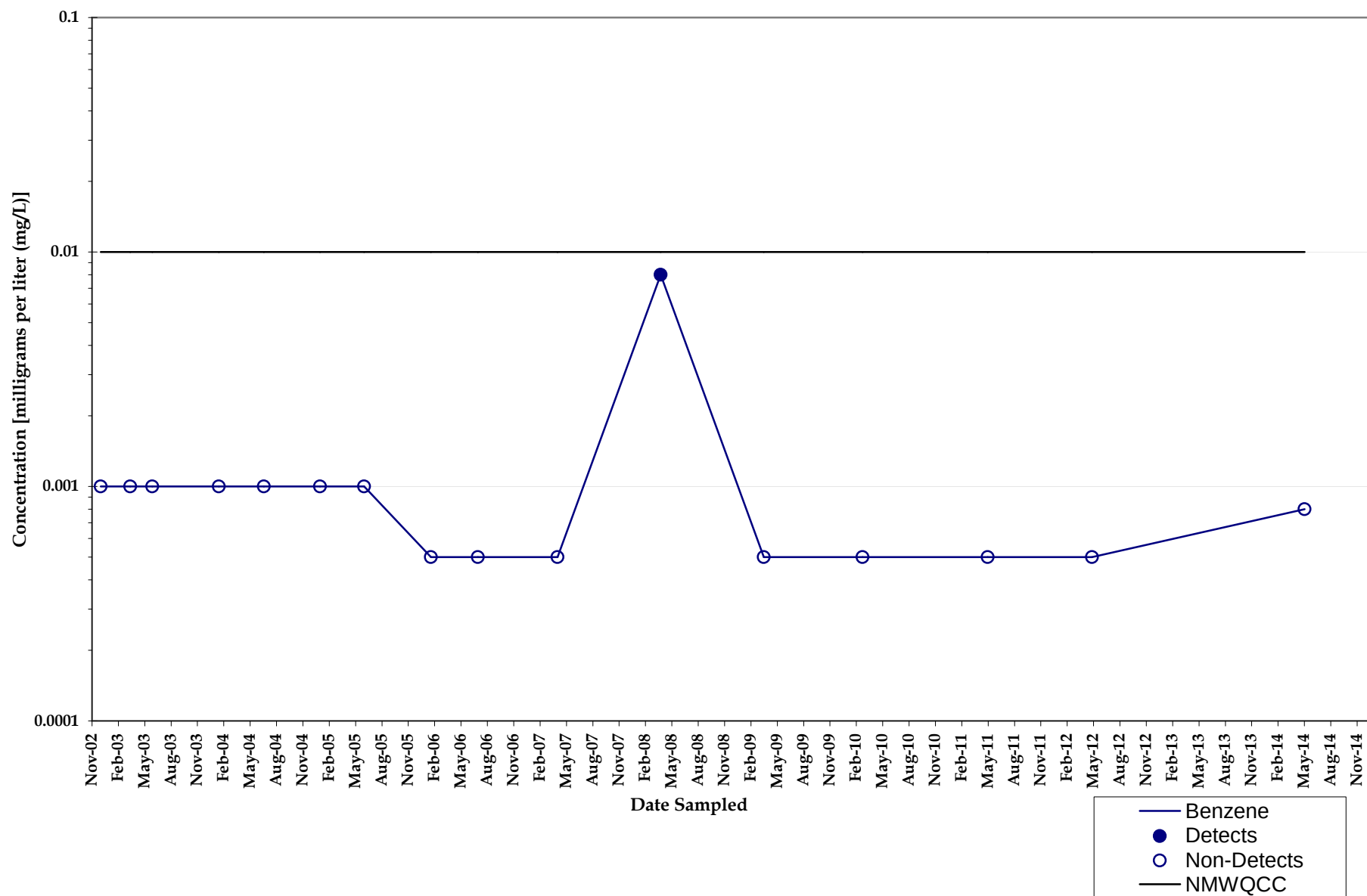


Benzene Concentrations Monitoring Well MW033

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

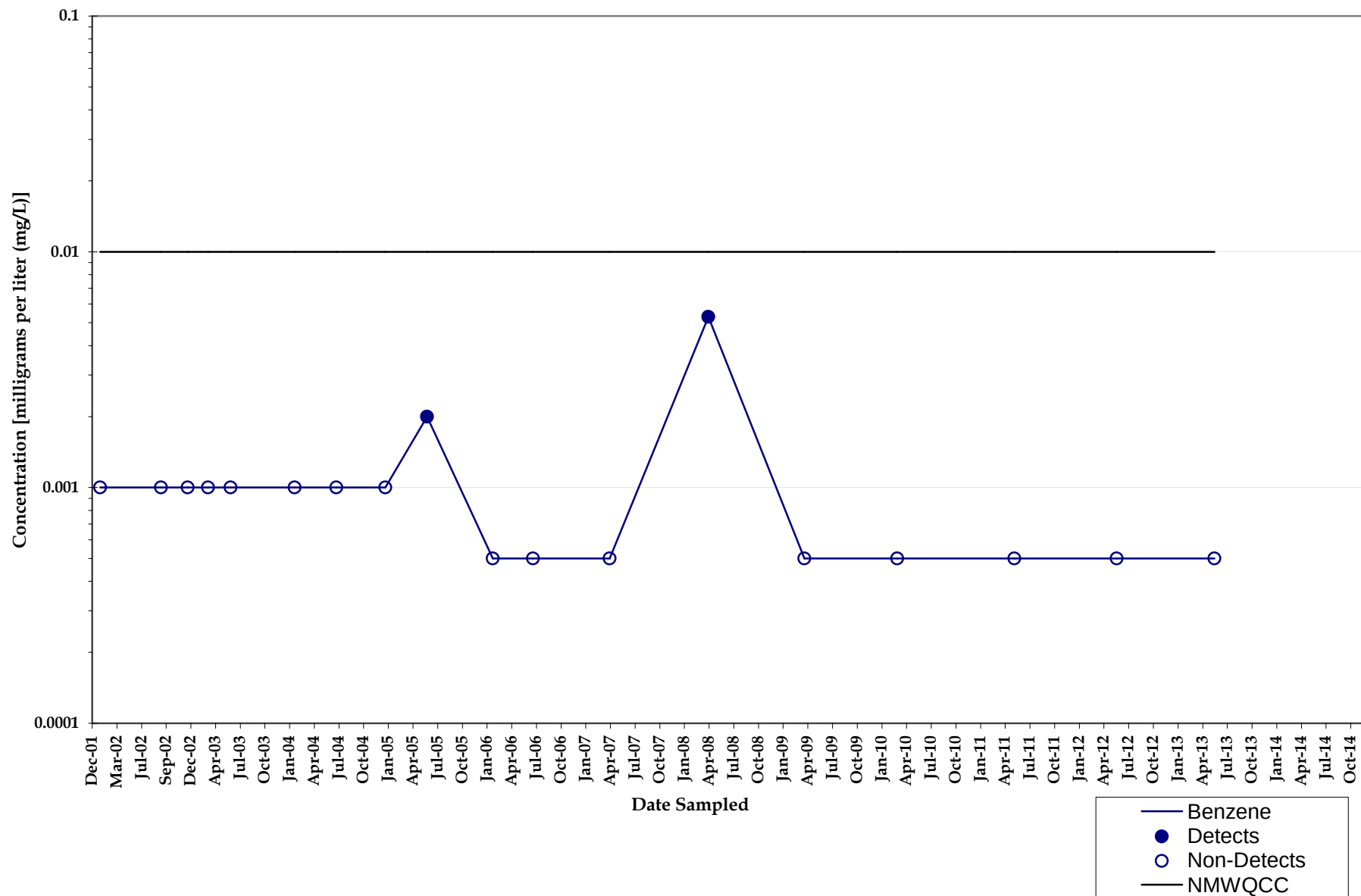


Benzene Concentrations Monitoring Well MW034

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

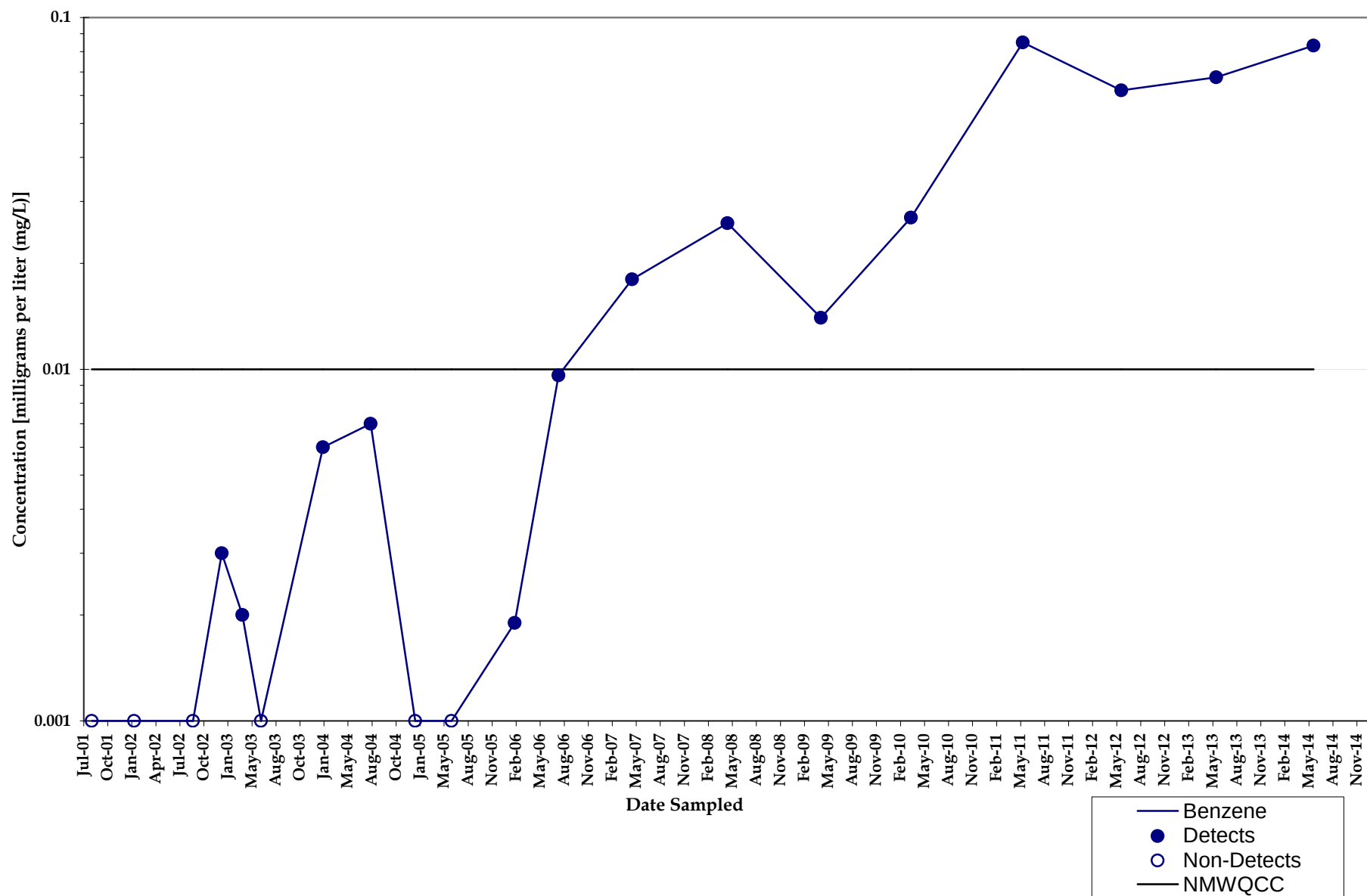


Benzene Concentrations Monitoring Well MW035

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

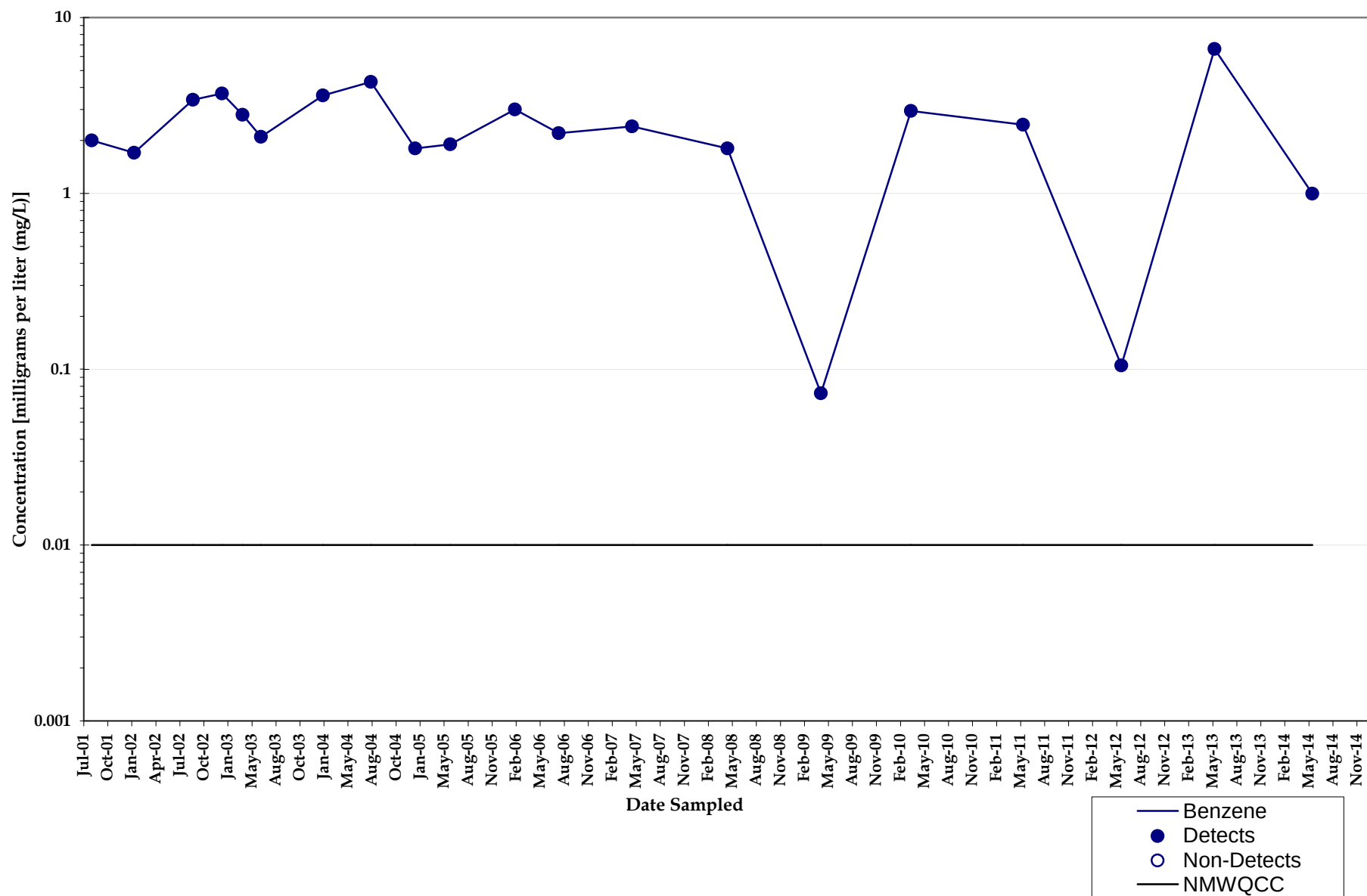


Benzene Concentrations Monitoring Well MW036

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

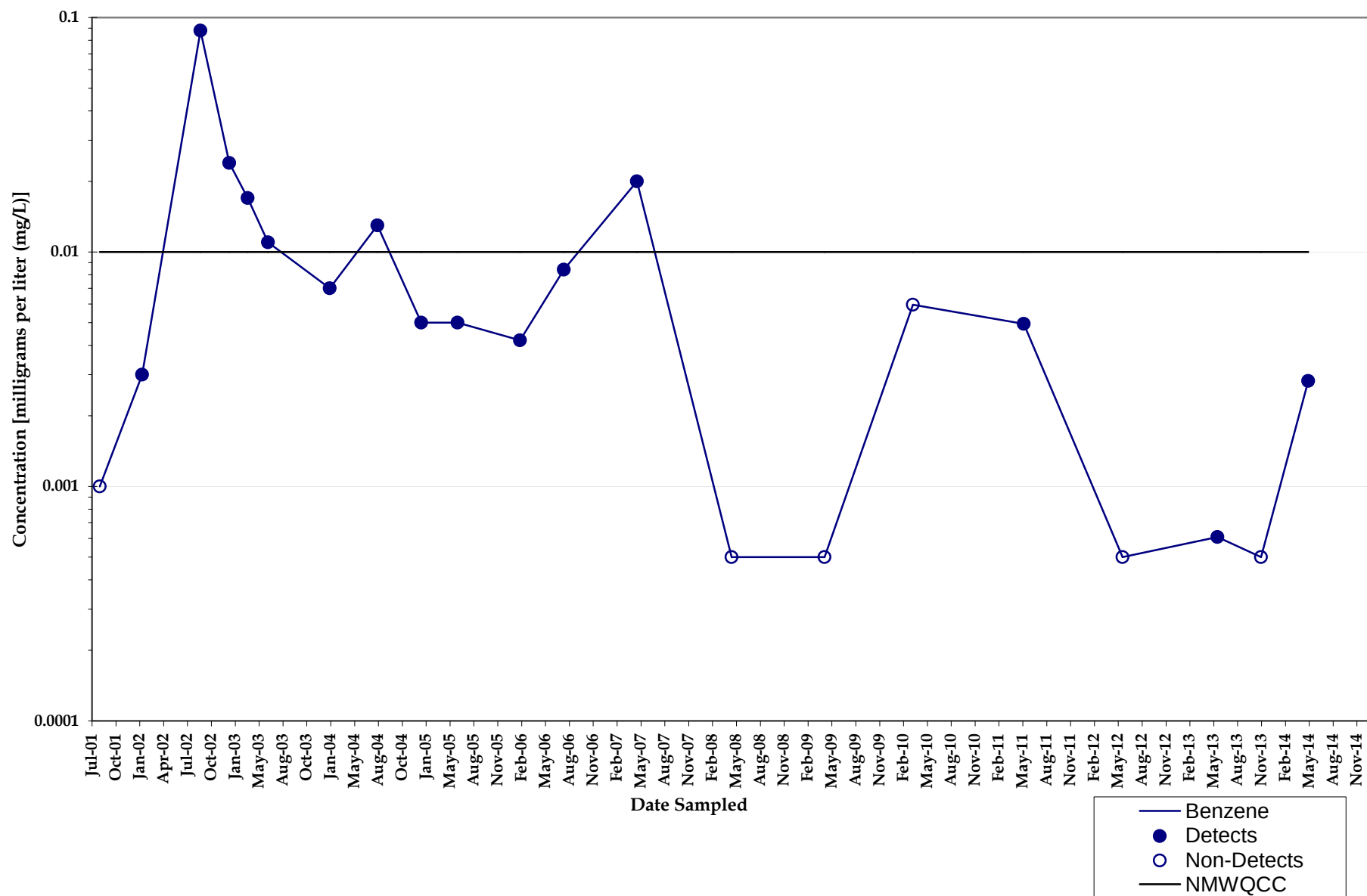


Benzene Concentrations Monitoring Well MW037

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

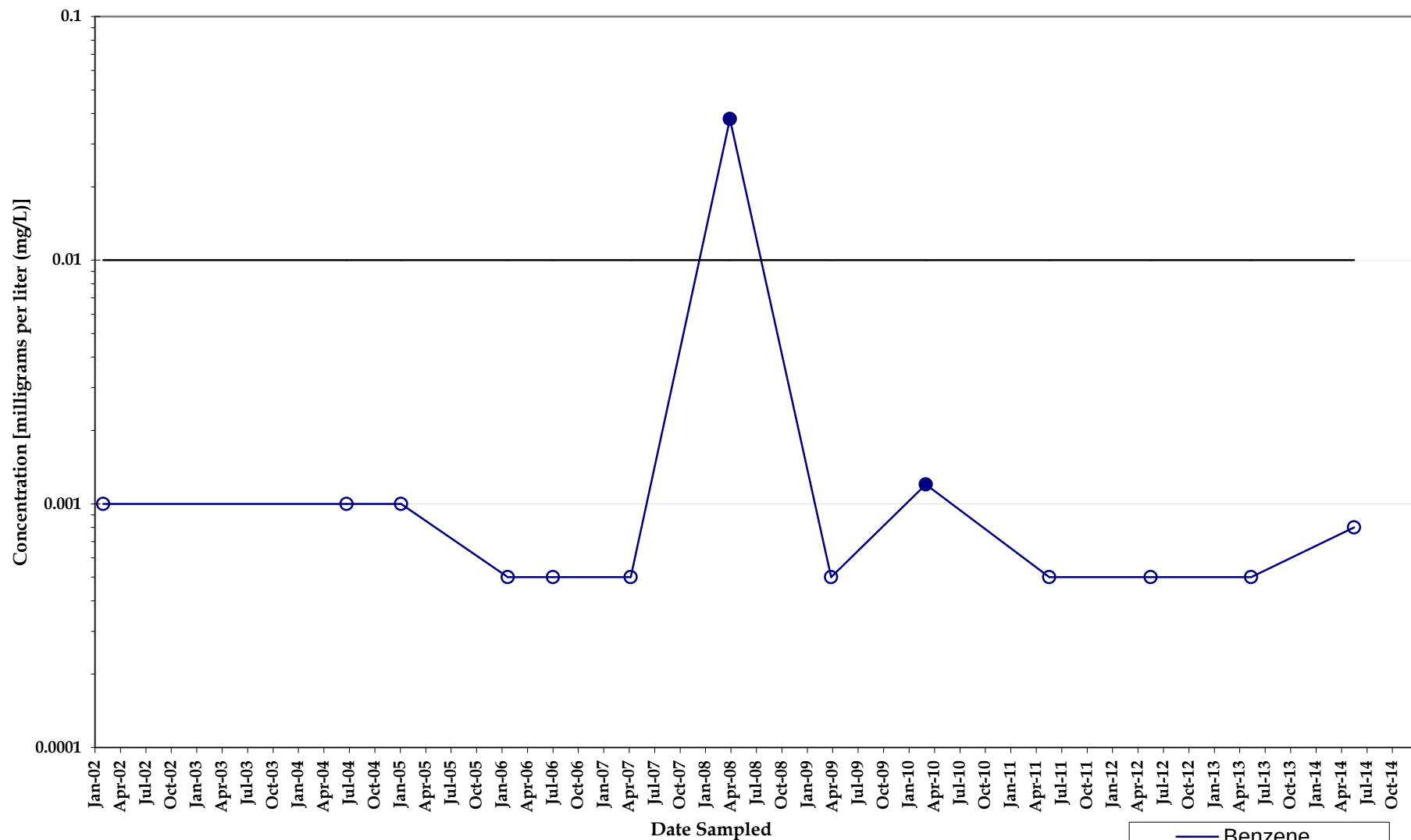


Benzene Concentrations Monitoring Well MW038

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

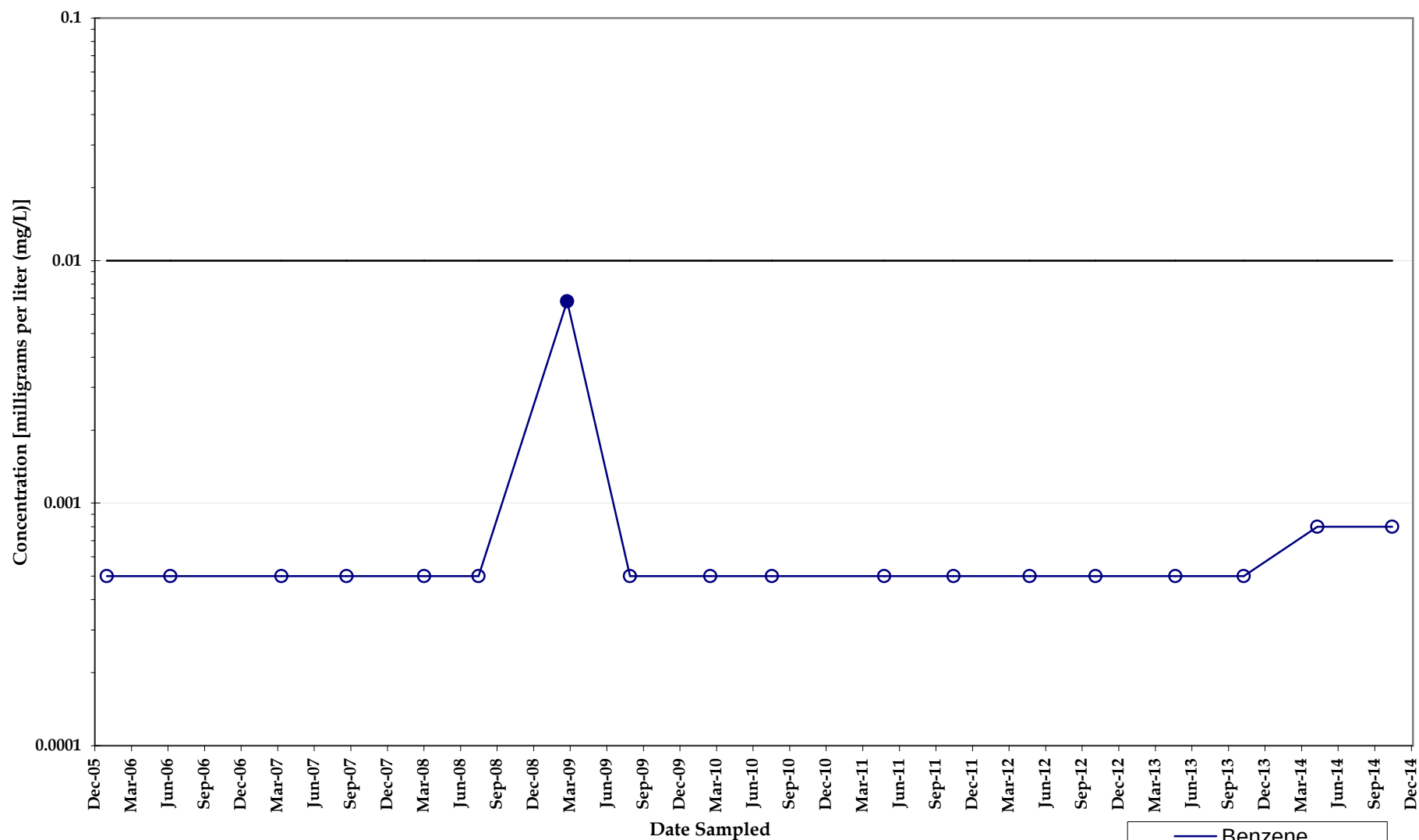


Benzene Concentrations Monitoring Well MW039A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

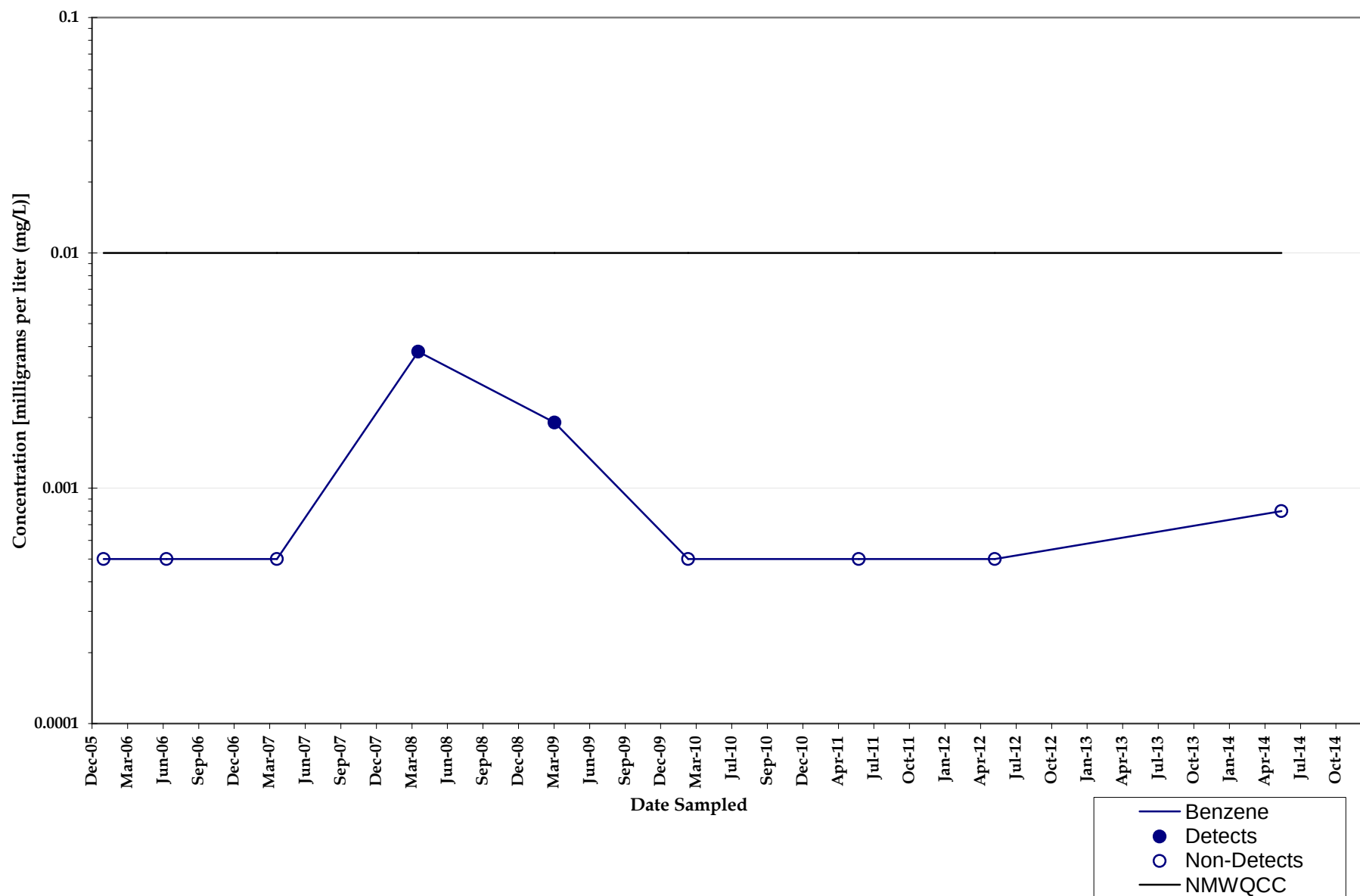


Benzene Concentrations Monitoring Well MW040A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

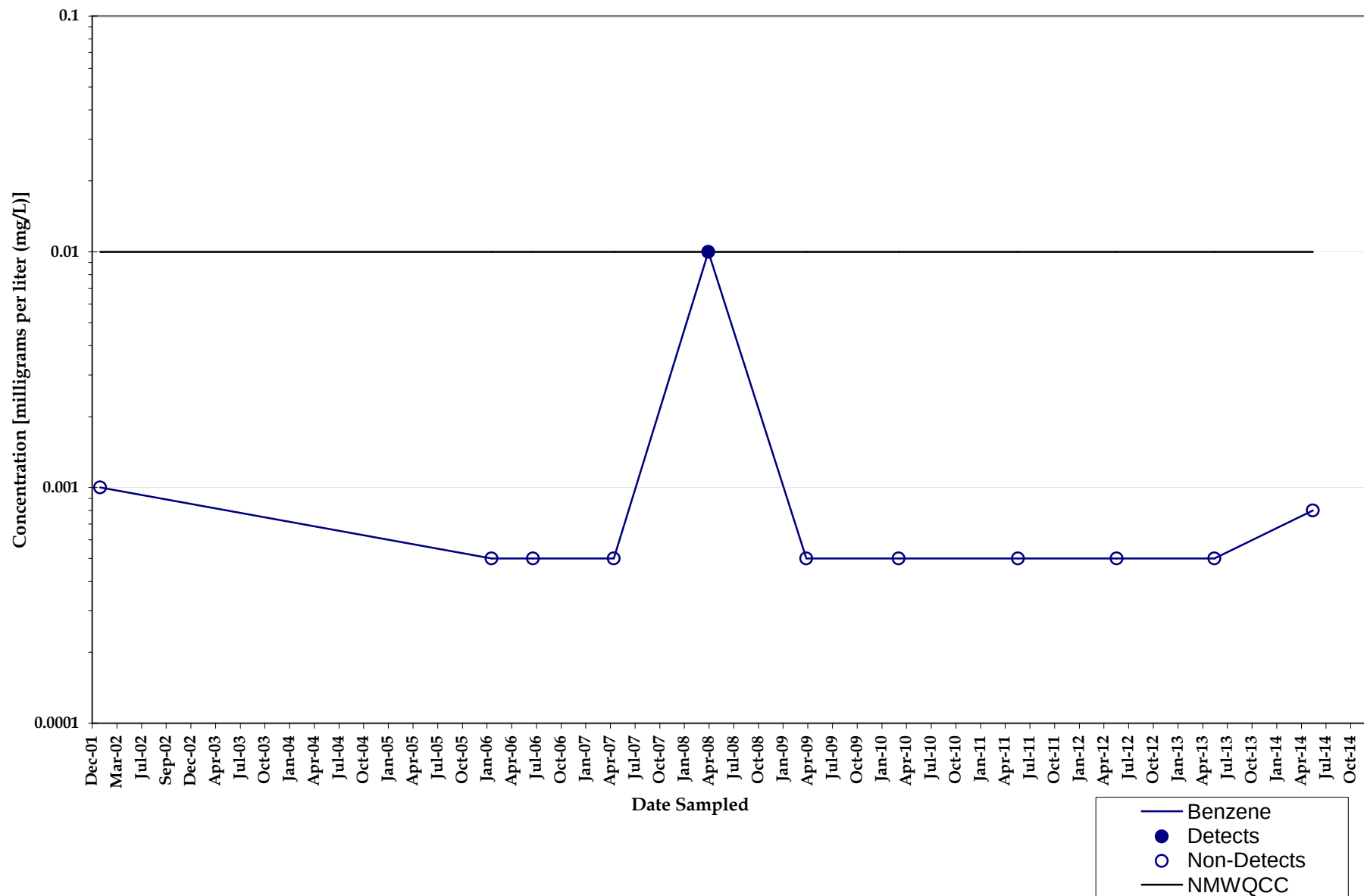


Benzene Concentrations Monitoring Well MW041A

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

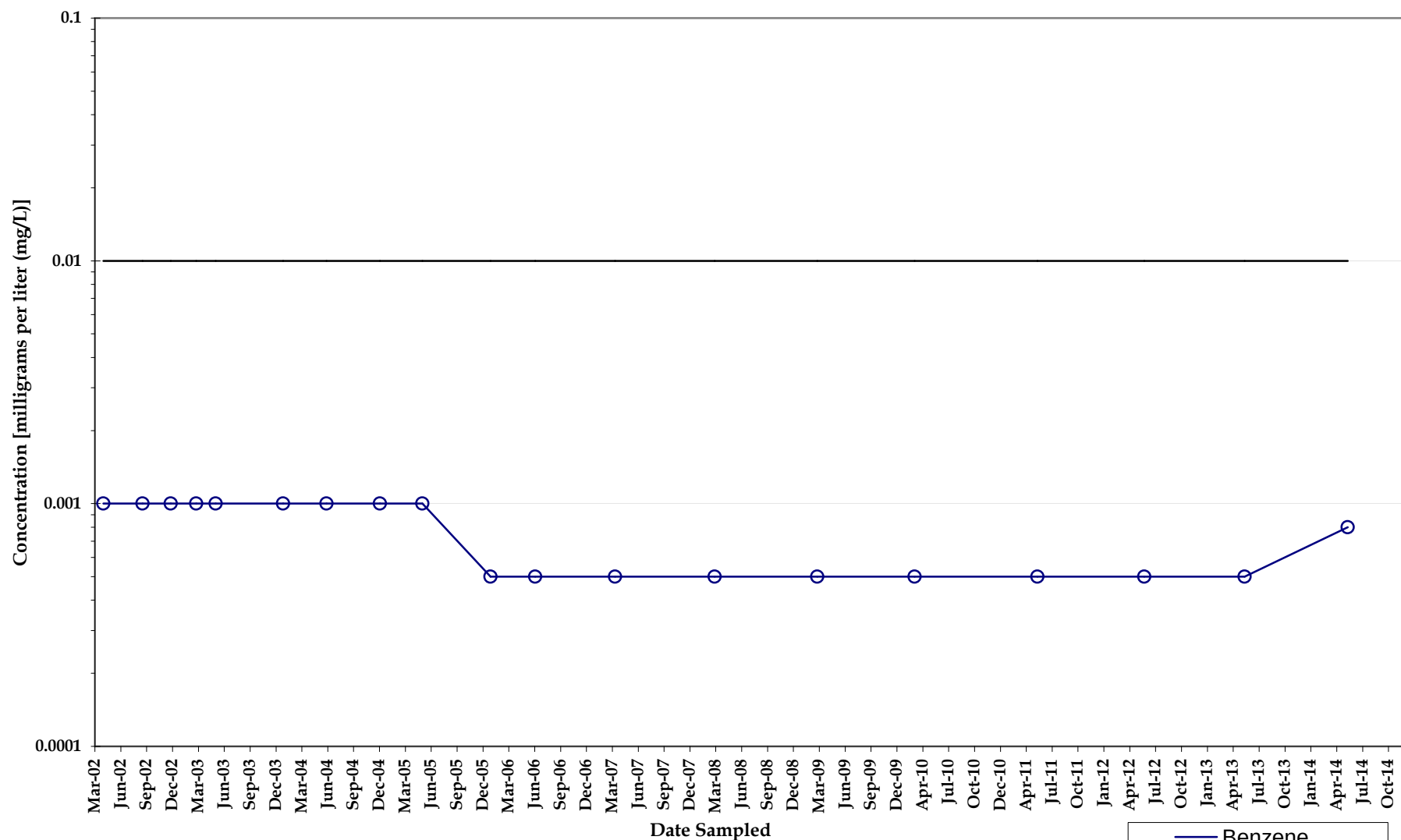


Benzene Concentrations Monitoring Well MW042A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

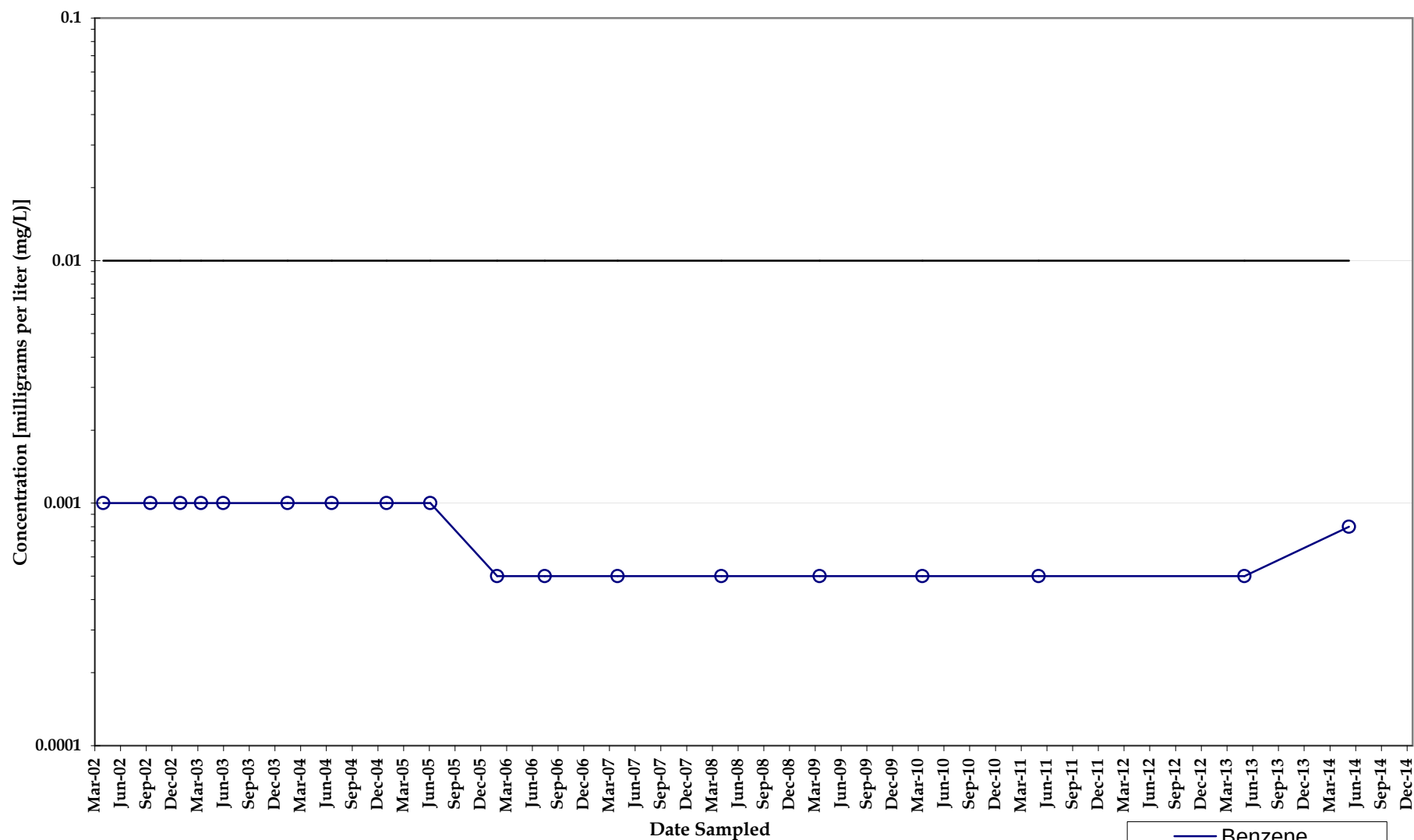


Benzene Concentrations Monitoring Well MW043

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

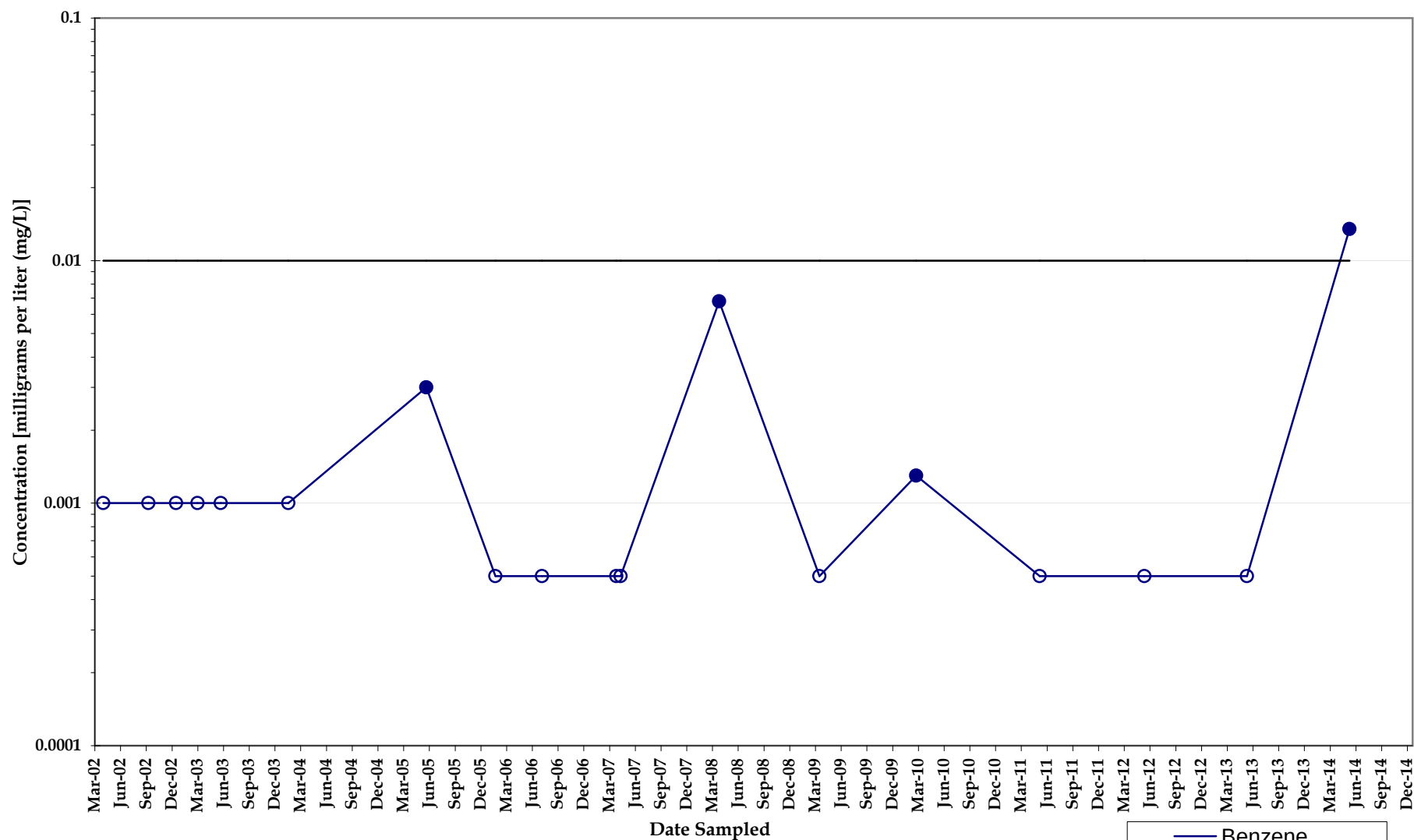


Benzene Concentrations Monitoring Well MW044

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

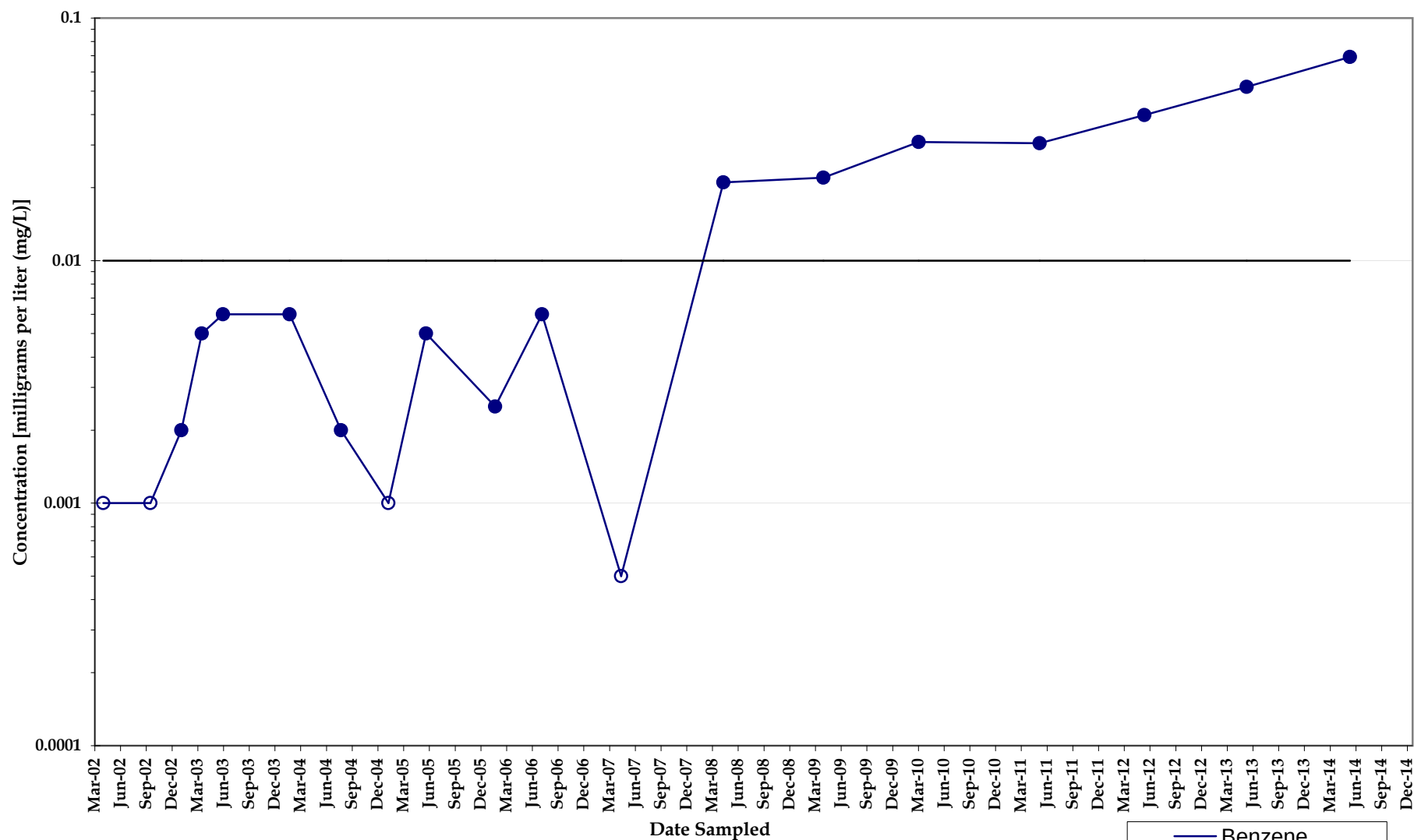


Benzene Concentrations Monitoring Well MW045

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by shaded symbol and detection values greater than the RL denoted by shaded symbol.

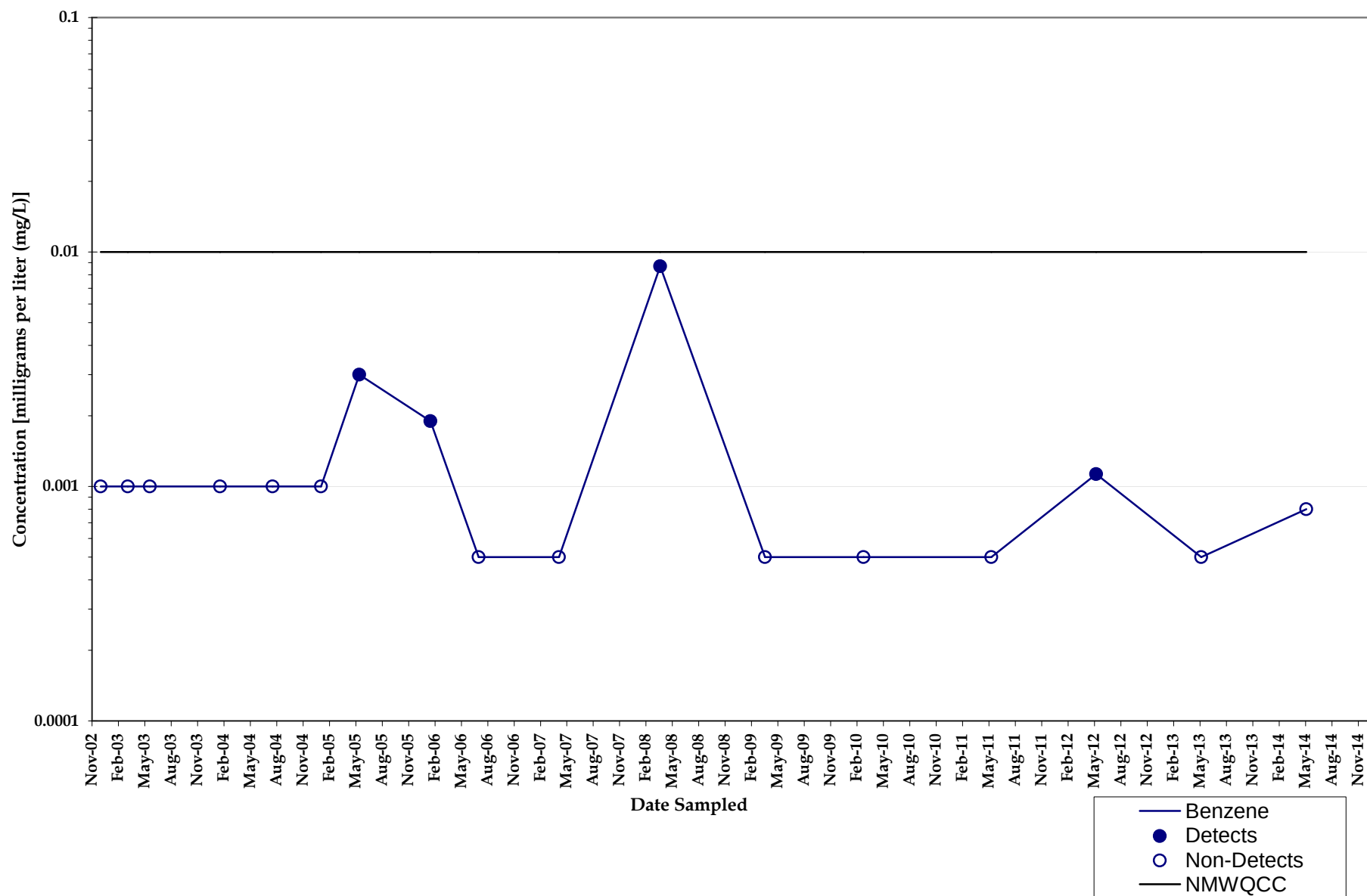


Benzene Concentrations Monitoring Well MW046

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

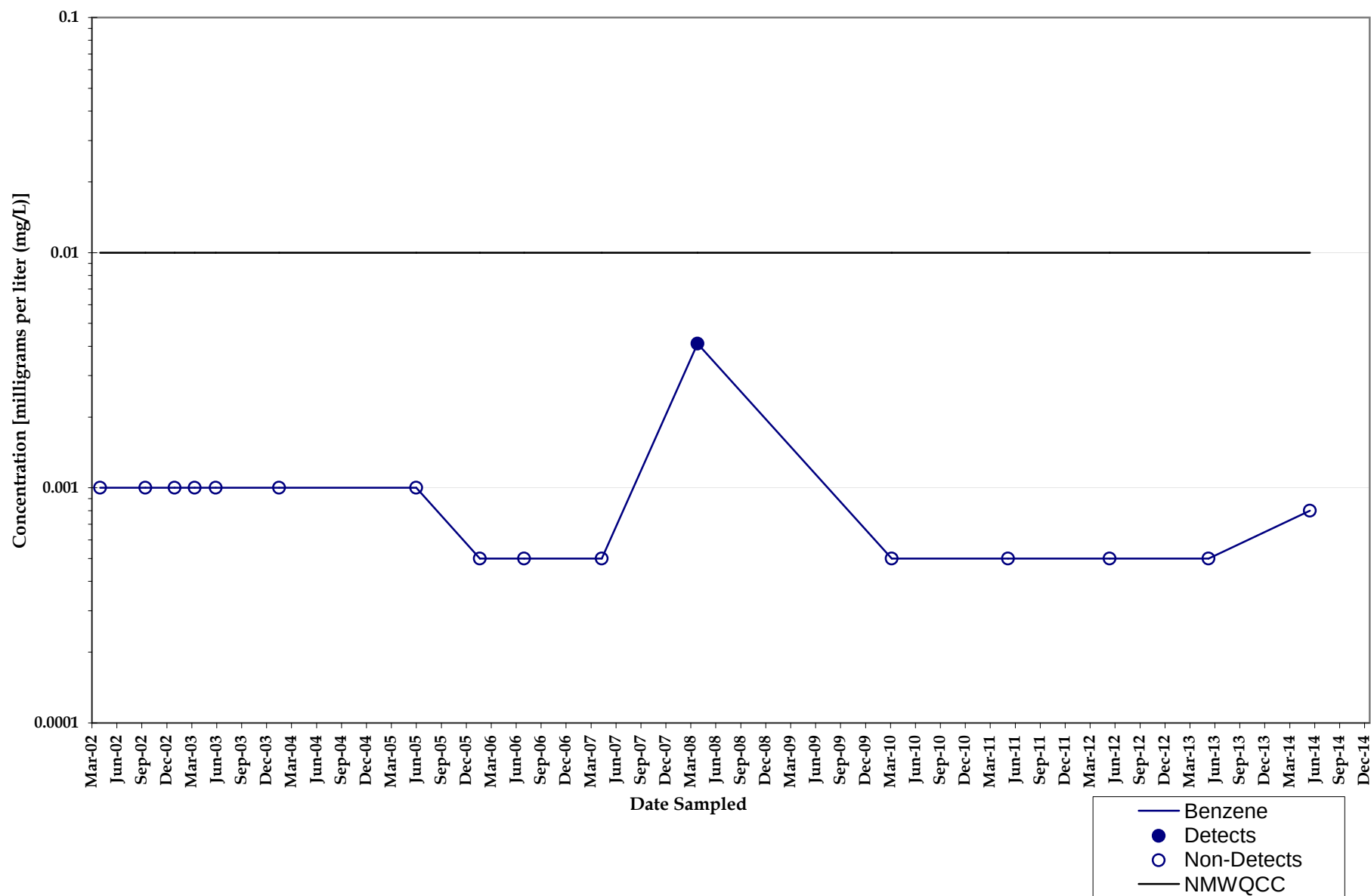


Benzene Concentrations Monitoring Well MW046A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

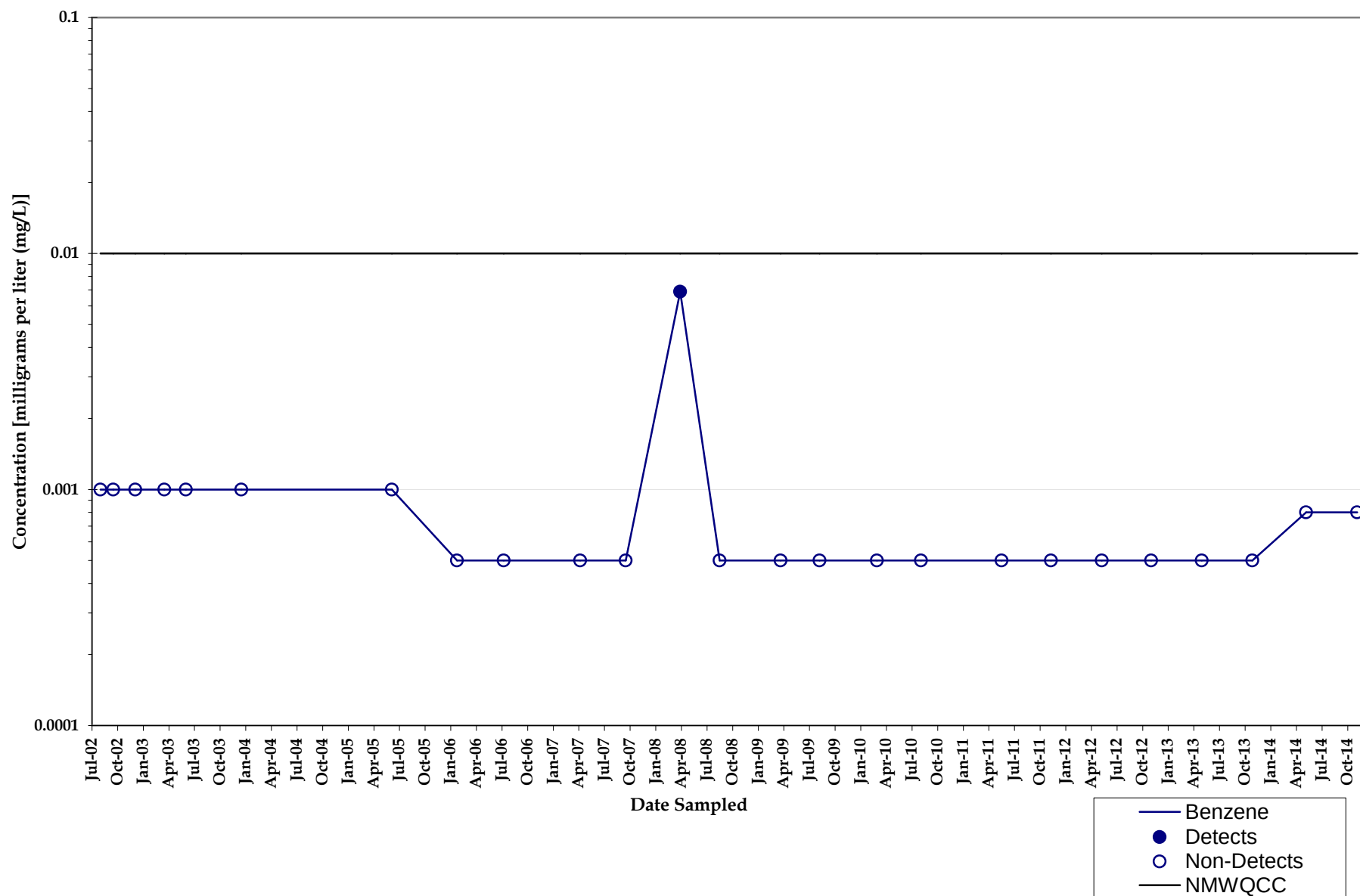


Benzene Concentrations Monitoring Well MW047

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

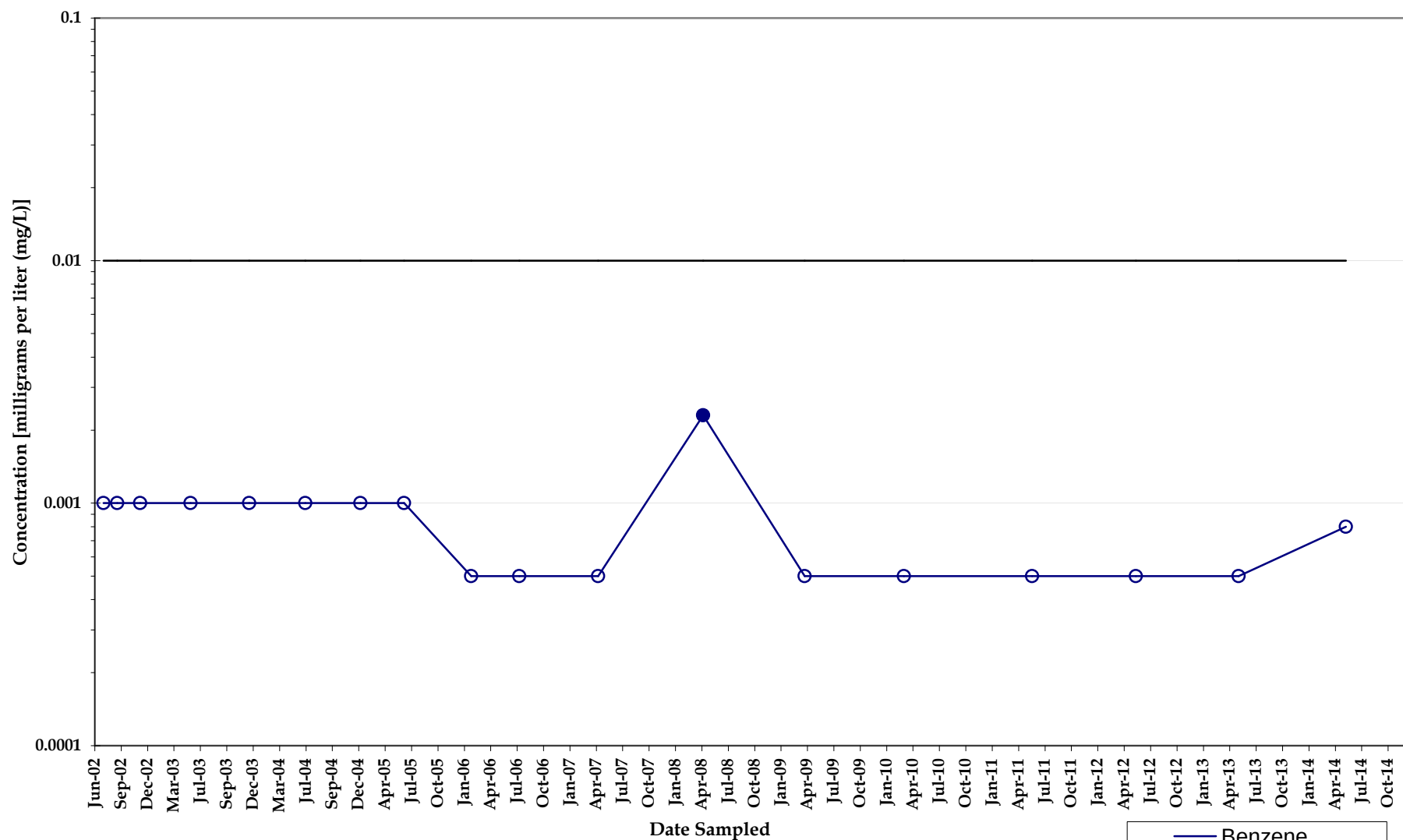


Benzene Concentrations Monitoring Well MW048SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

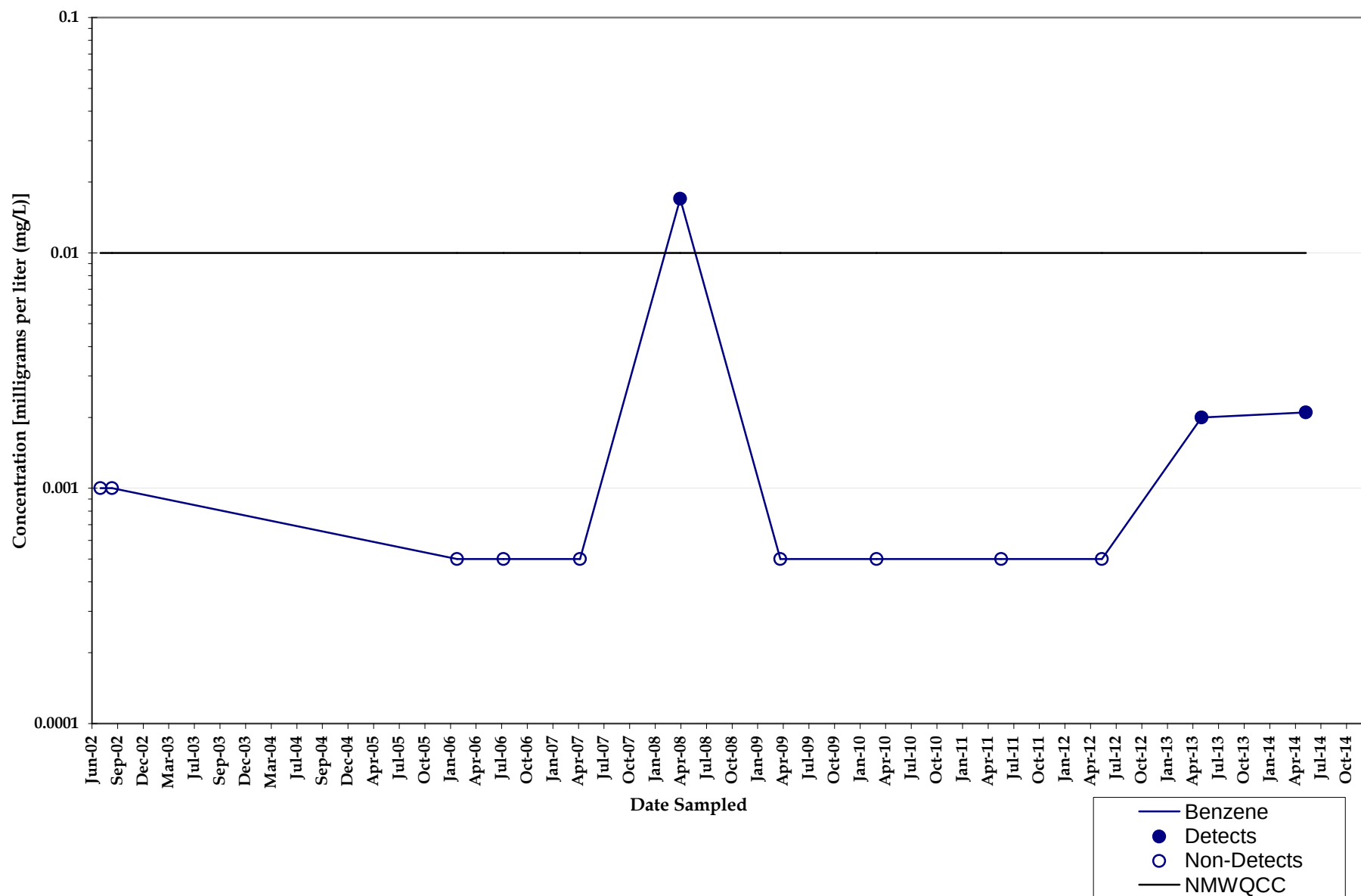


Benzene Concentrations Monitoring Well MW049SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

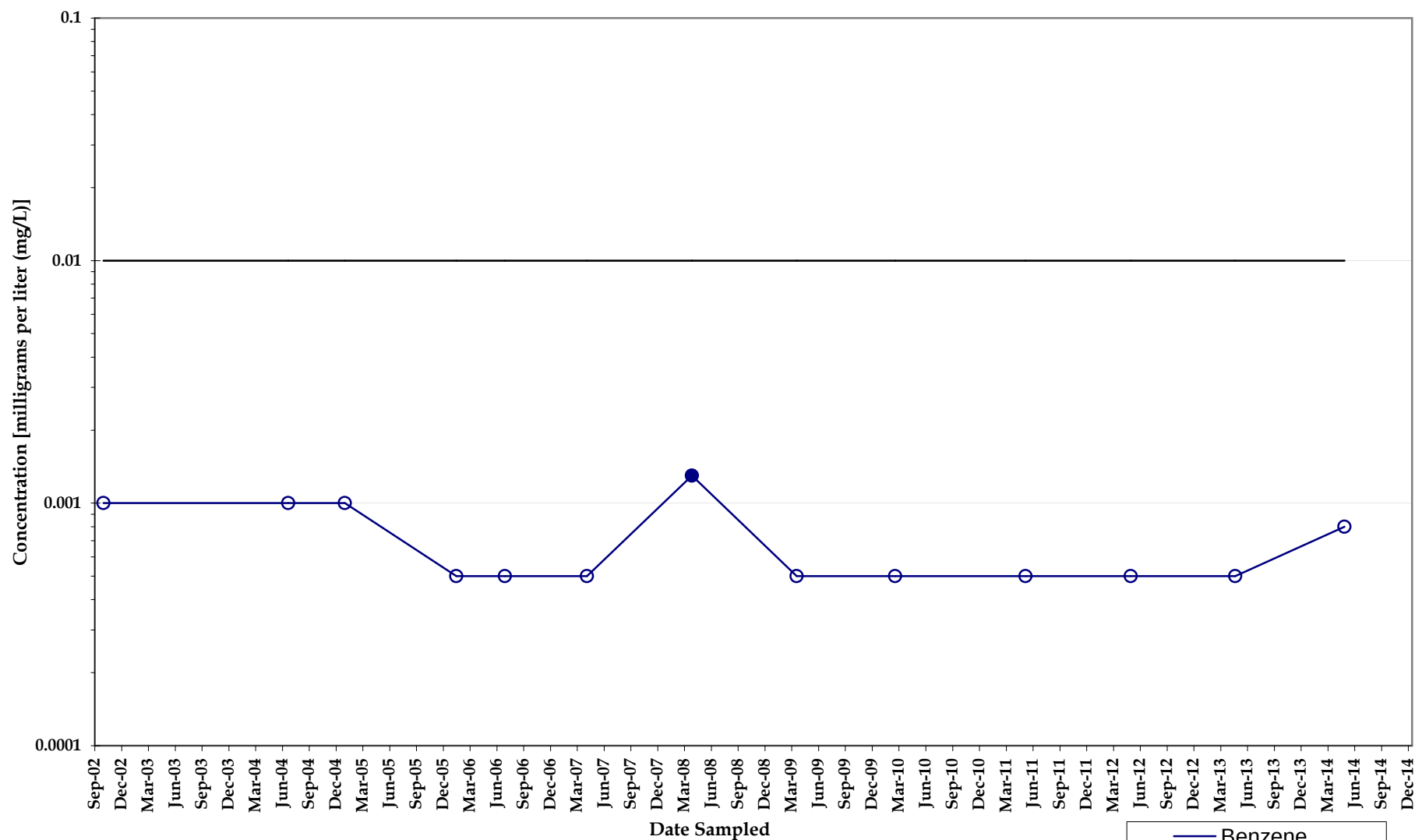


Benzene Concentrations Monitoring Well MW050SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

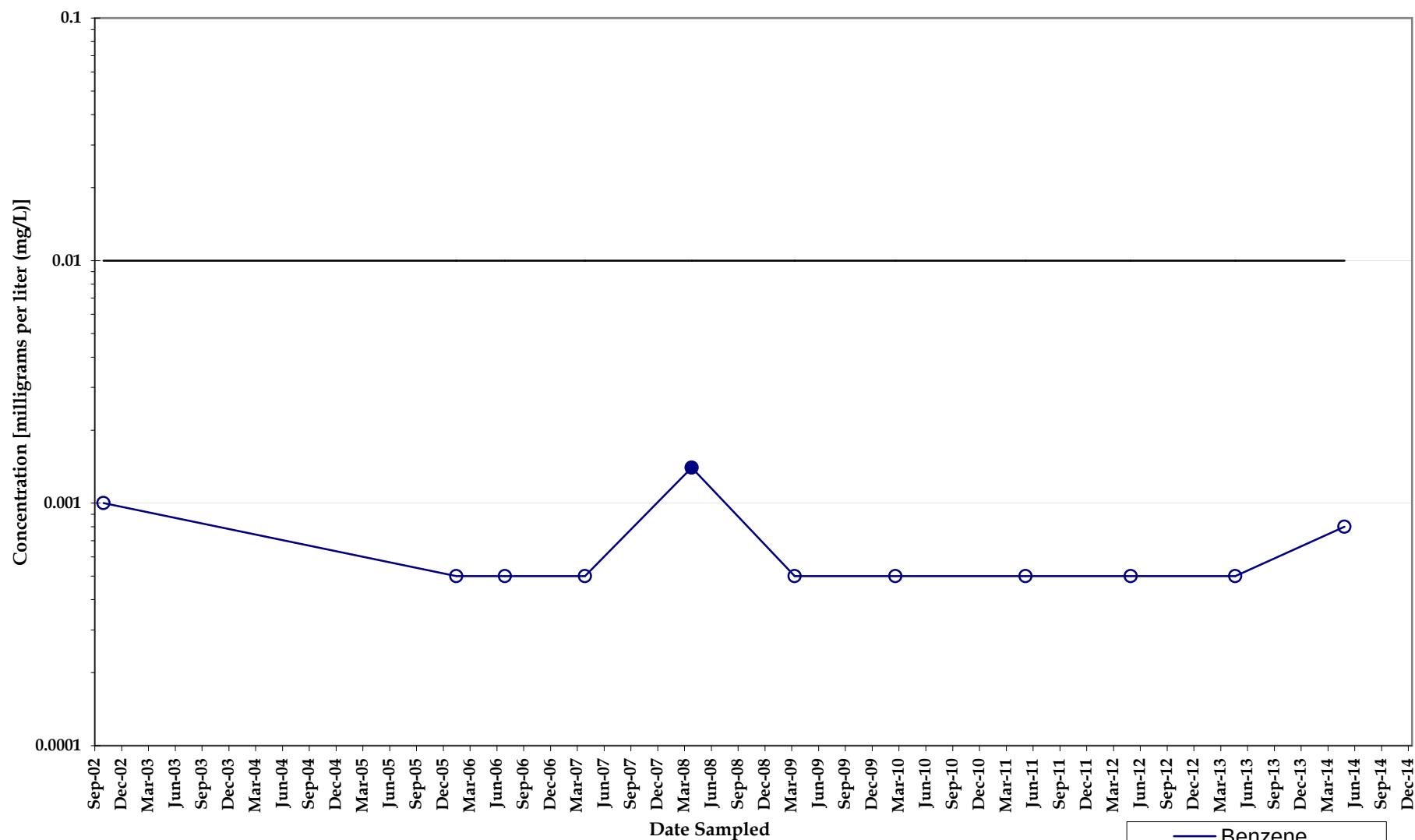


Benzene Concentrations Monitoring Well MW051SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

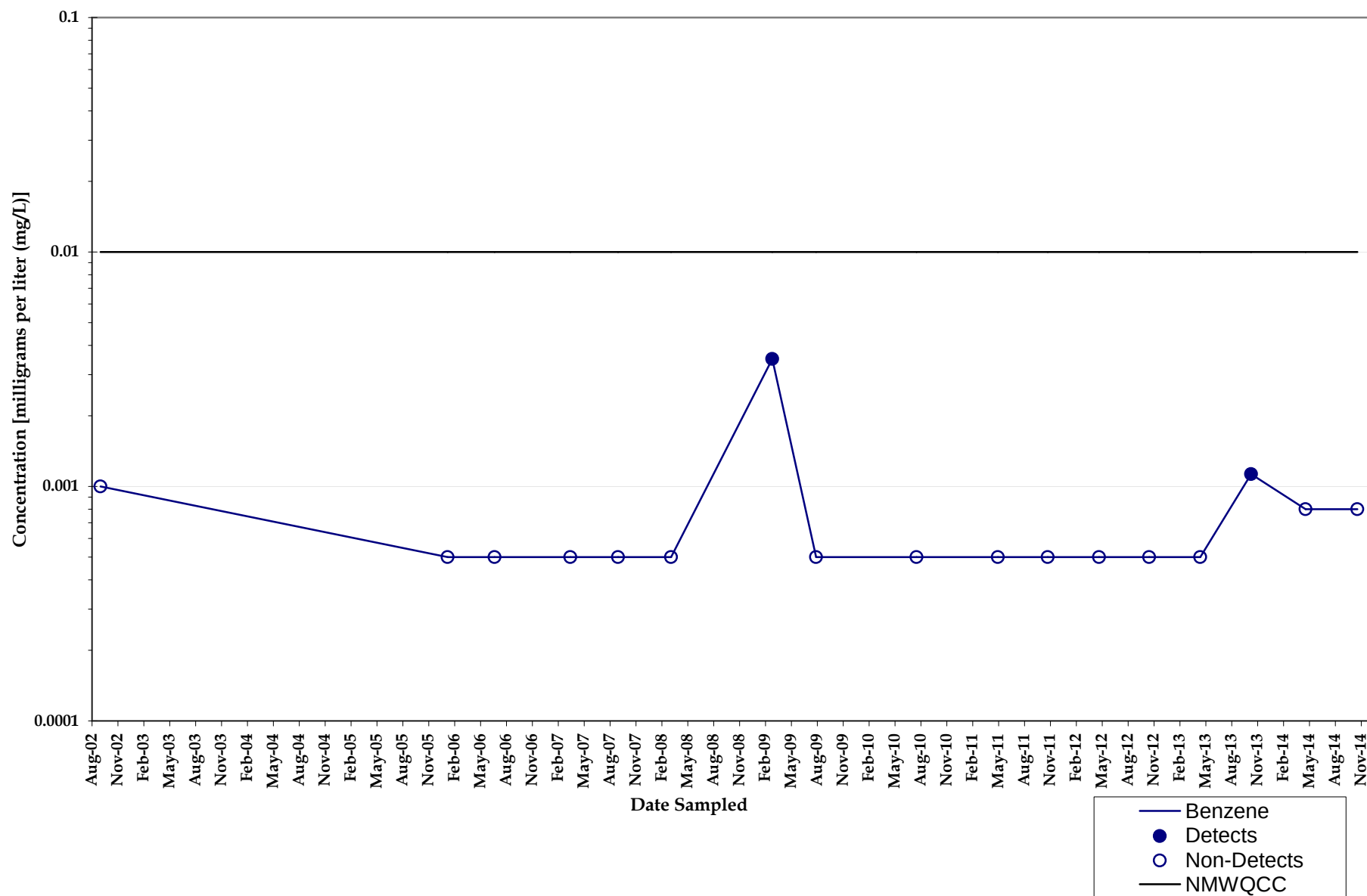


Benzene Concentrations Monitoring Well MW052SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

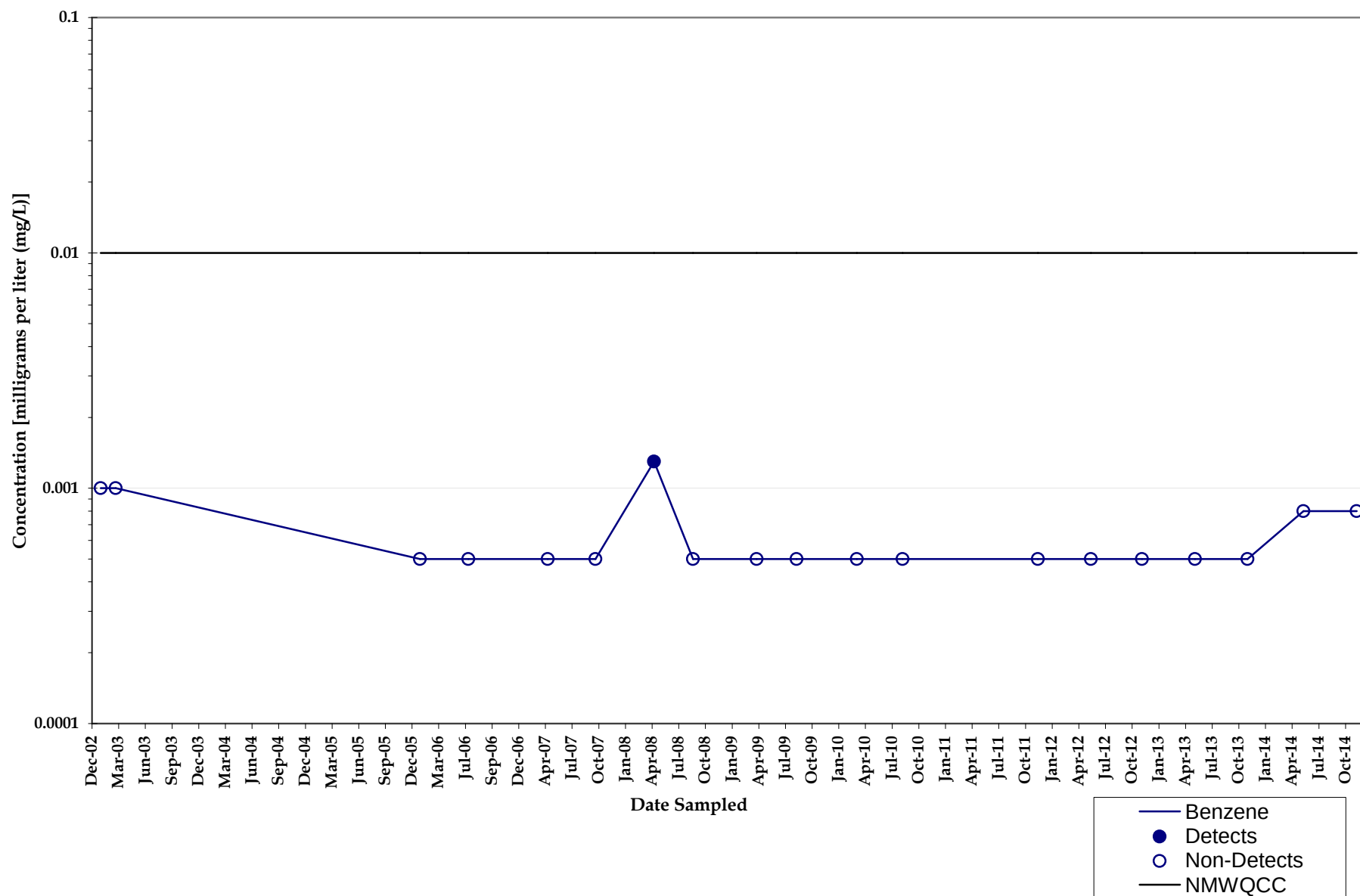


Benzene Concentrations Monitoring Well MW053SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

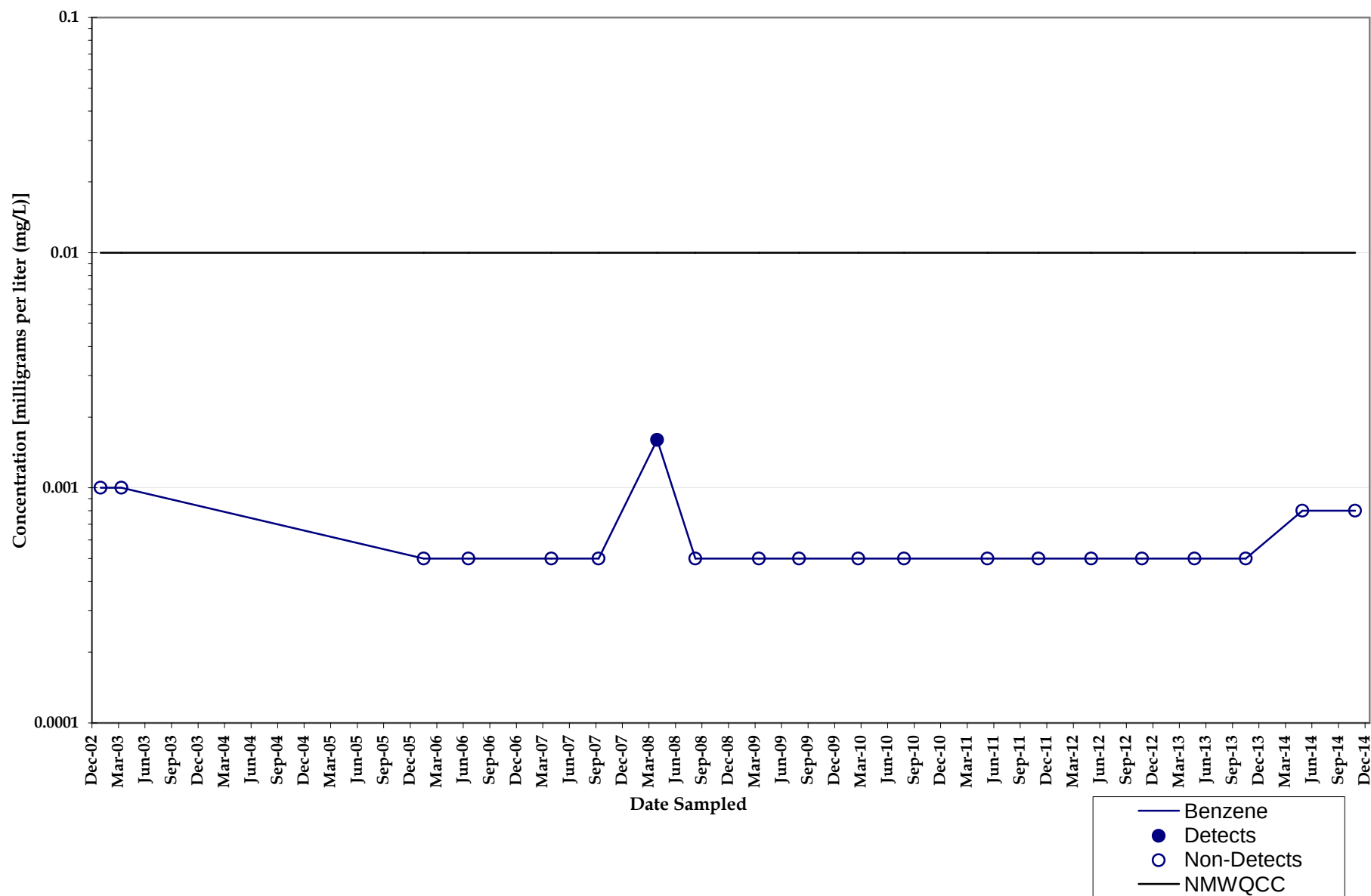


Benzene Concentrations Monitoring Well MW054SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

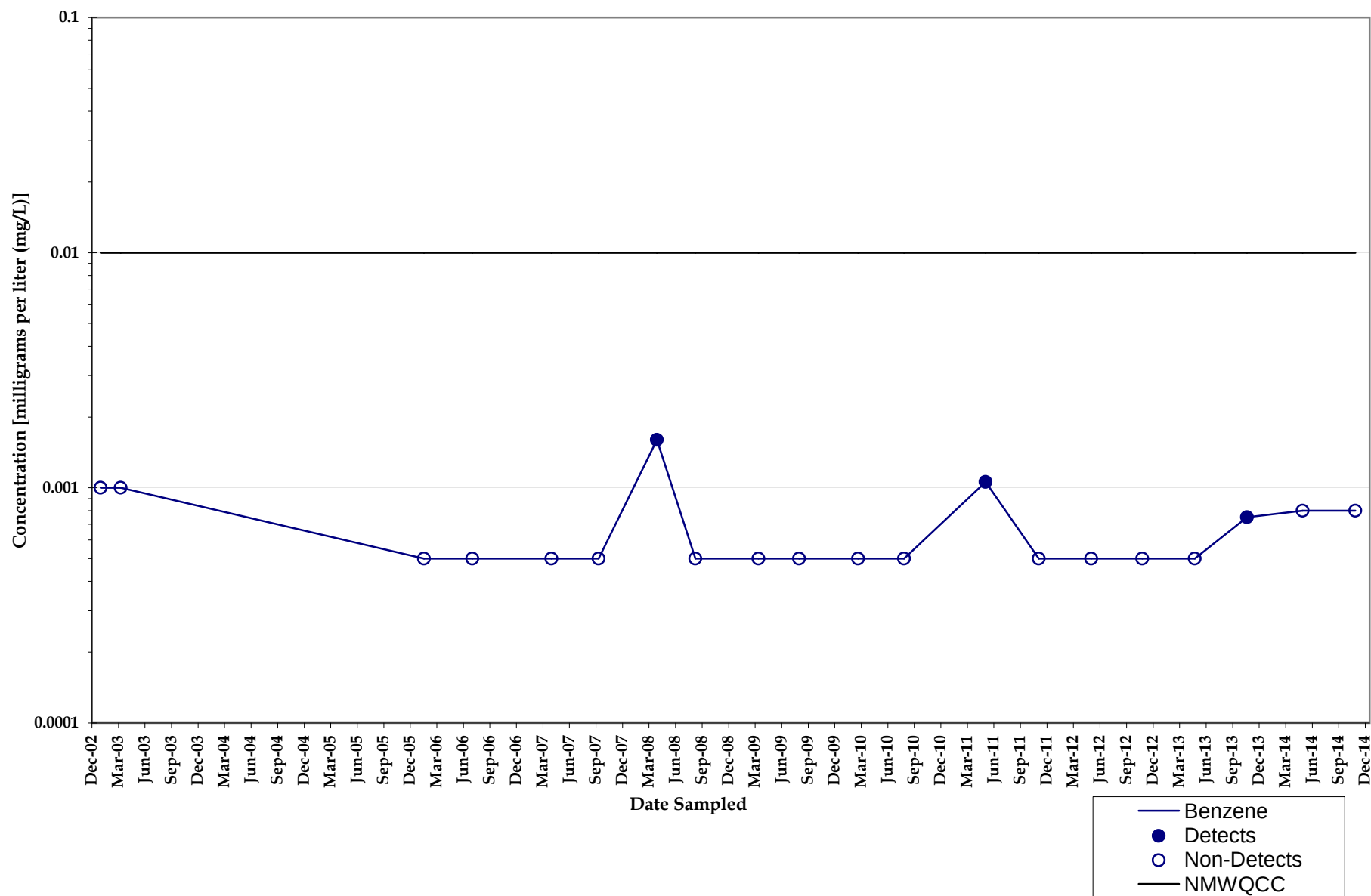


Benzene Concentrations Monitoring Well MW055SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

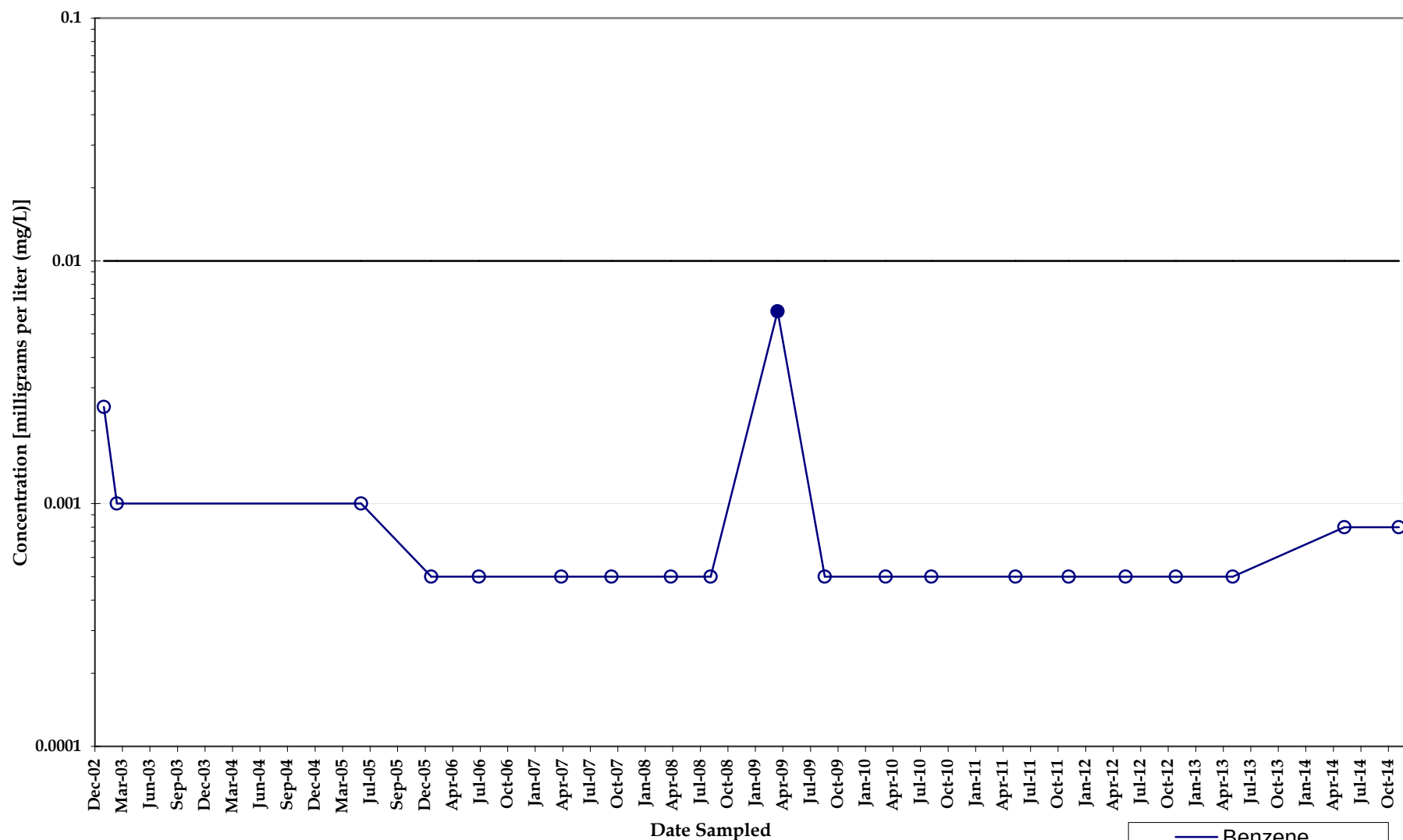


Benzene Concentrations Monitoring Well MW056SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

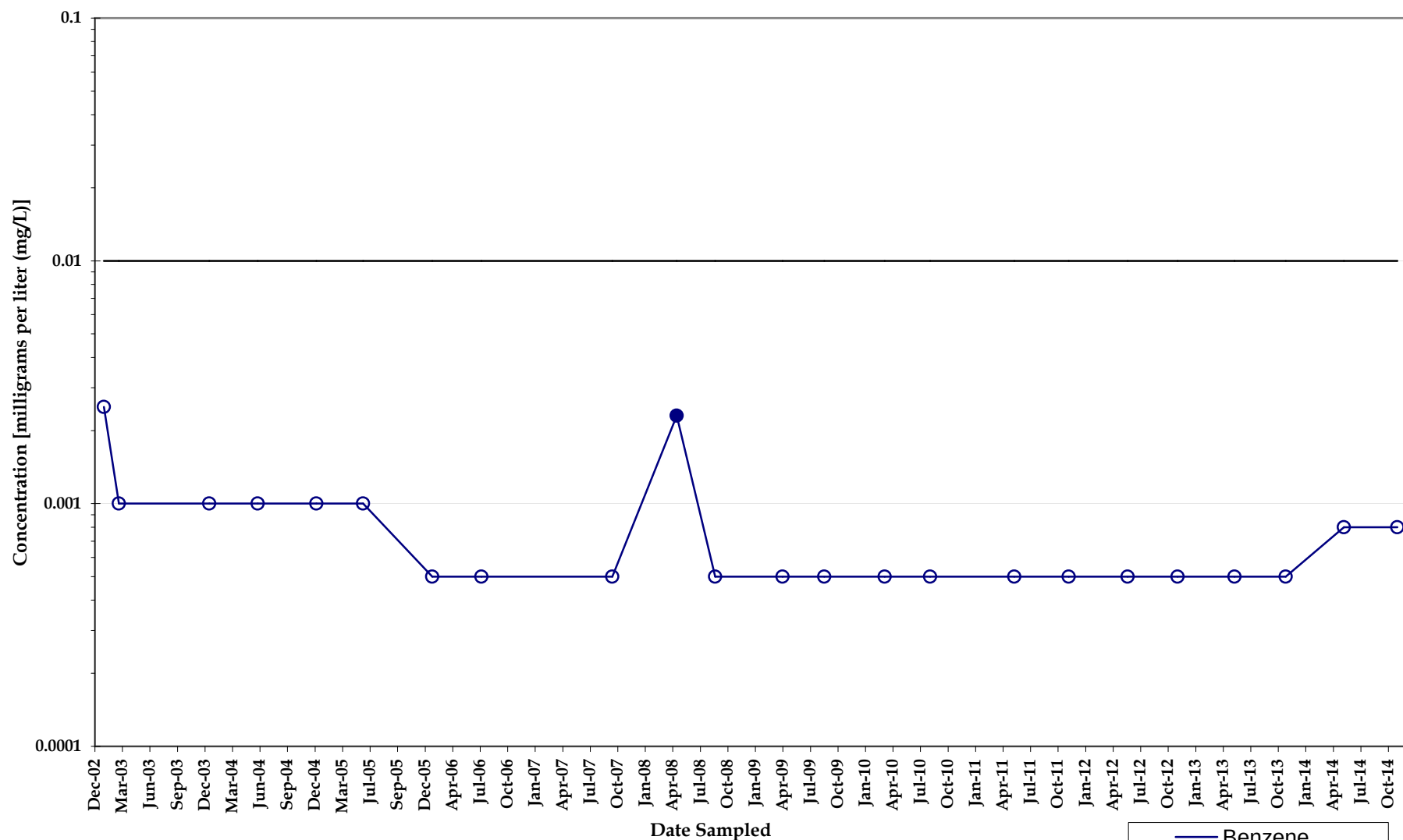


Benzene Concentrations Monitoring Well MW057SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

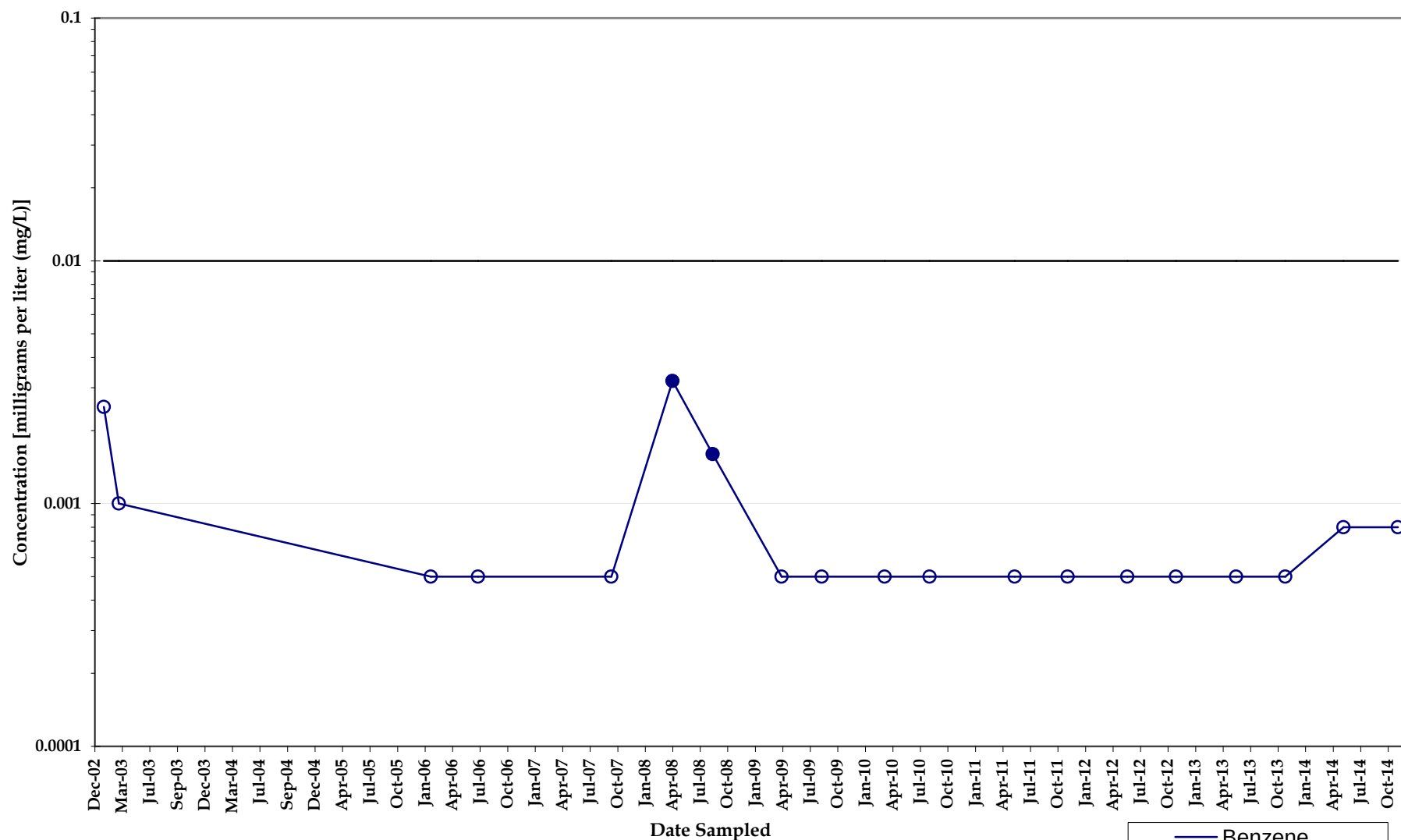


Benzene Concentrations Monitoring Well MW058

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

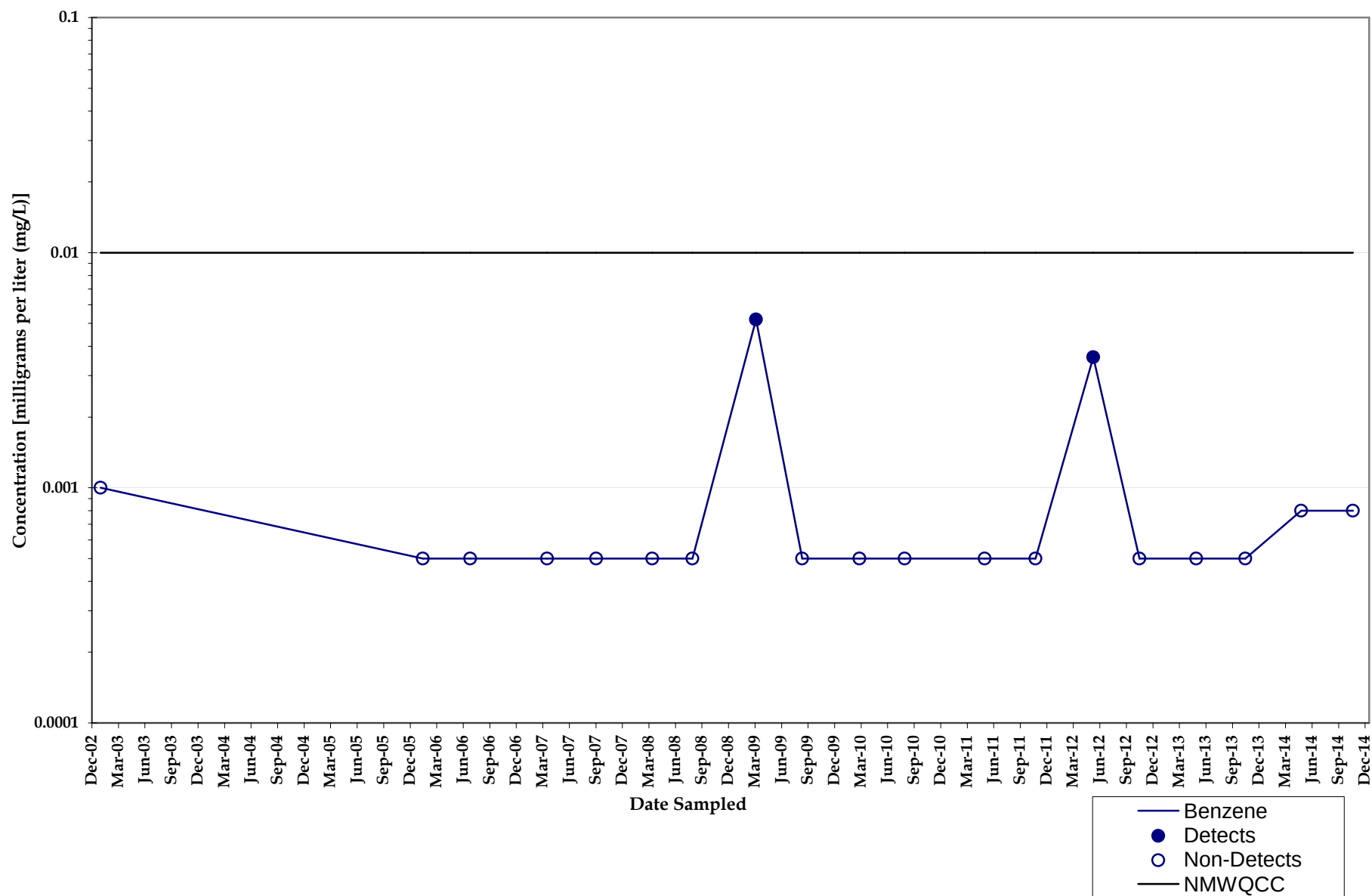


Benzene Concentrations Monitoring Well MW059

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

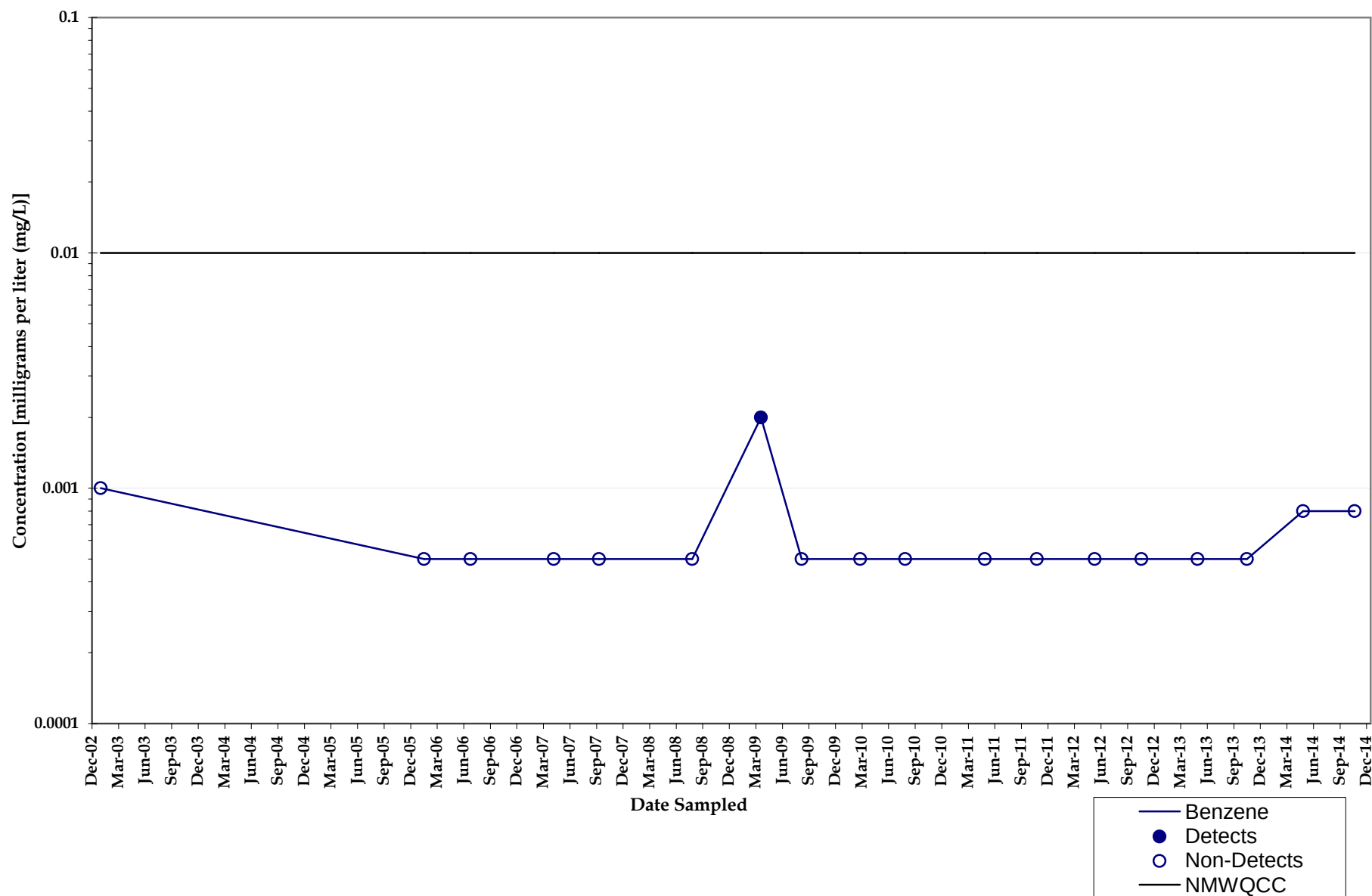


Benzene Concentrations Monitoring Well MW060

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

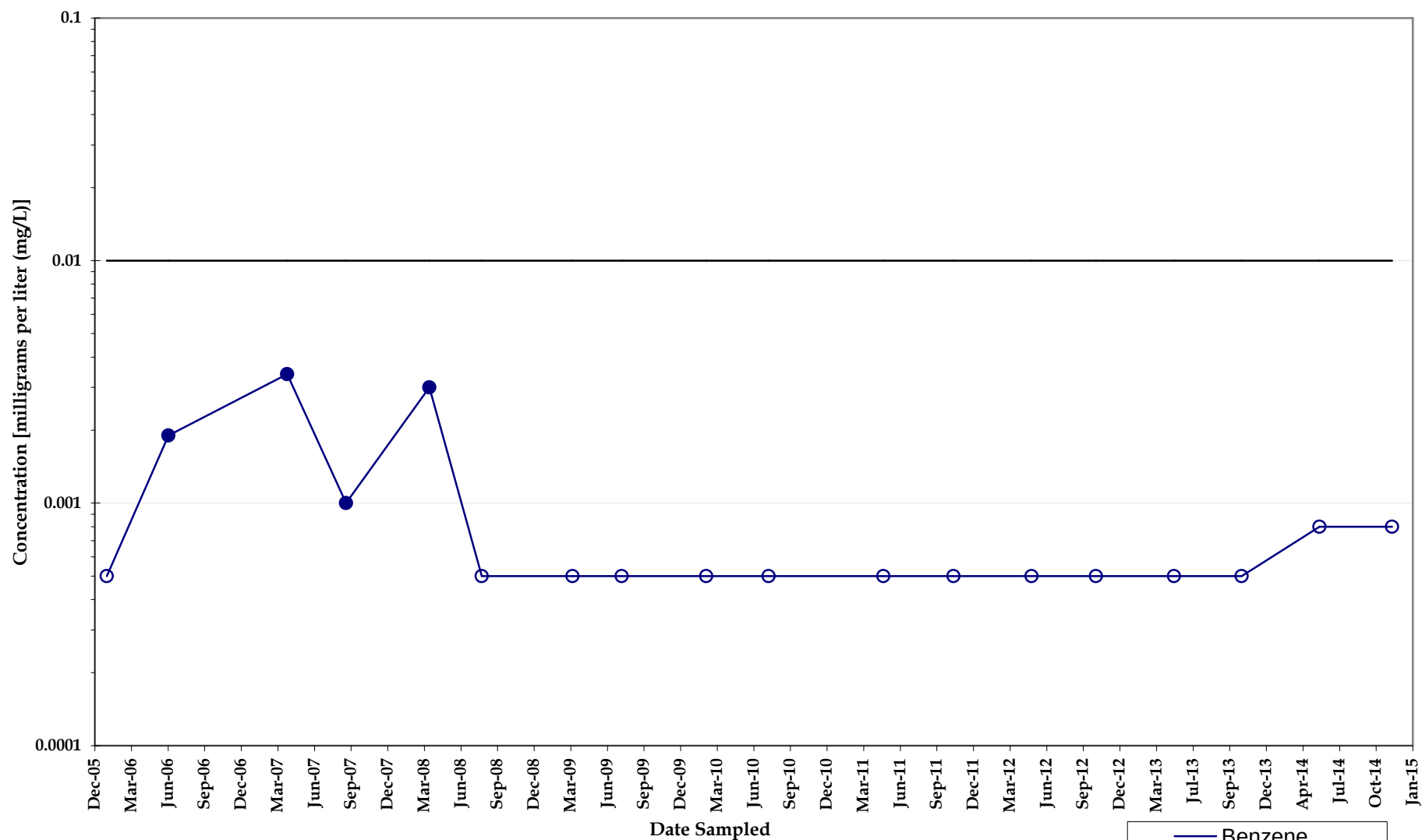


Benzene Concentrations Monitoring Well MW061

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

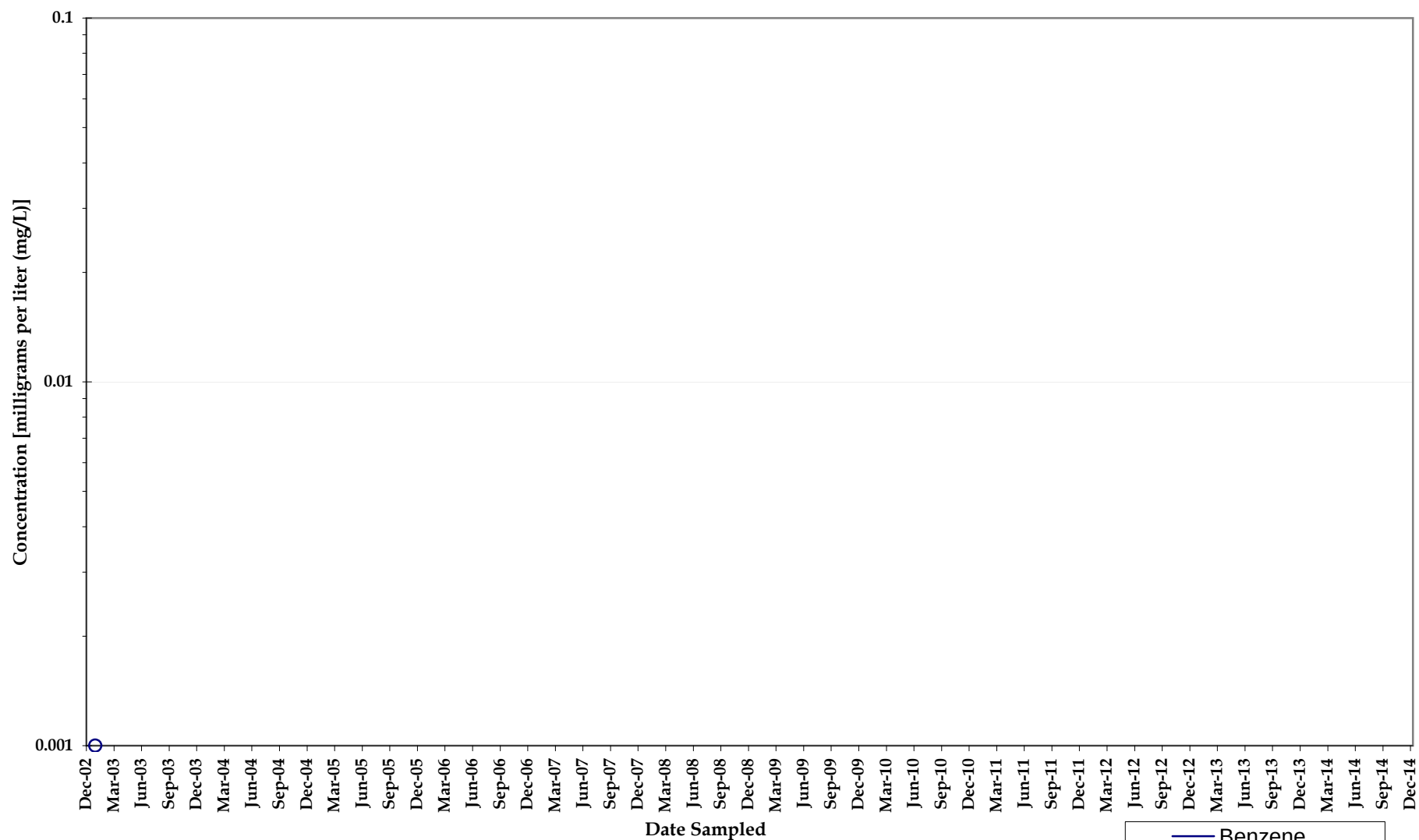


Benzene Concentrations Monitoring Well MW062A

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

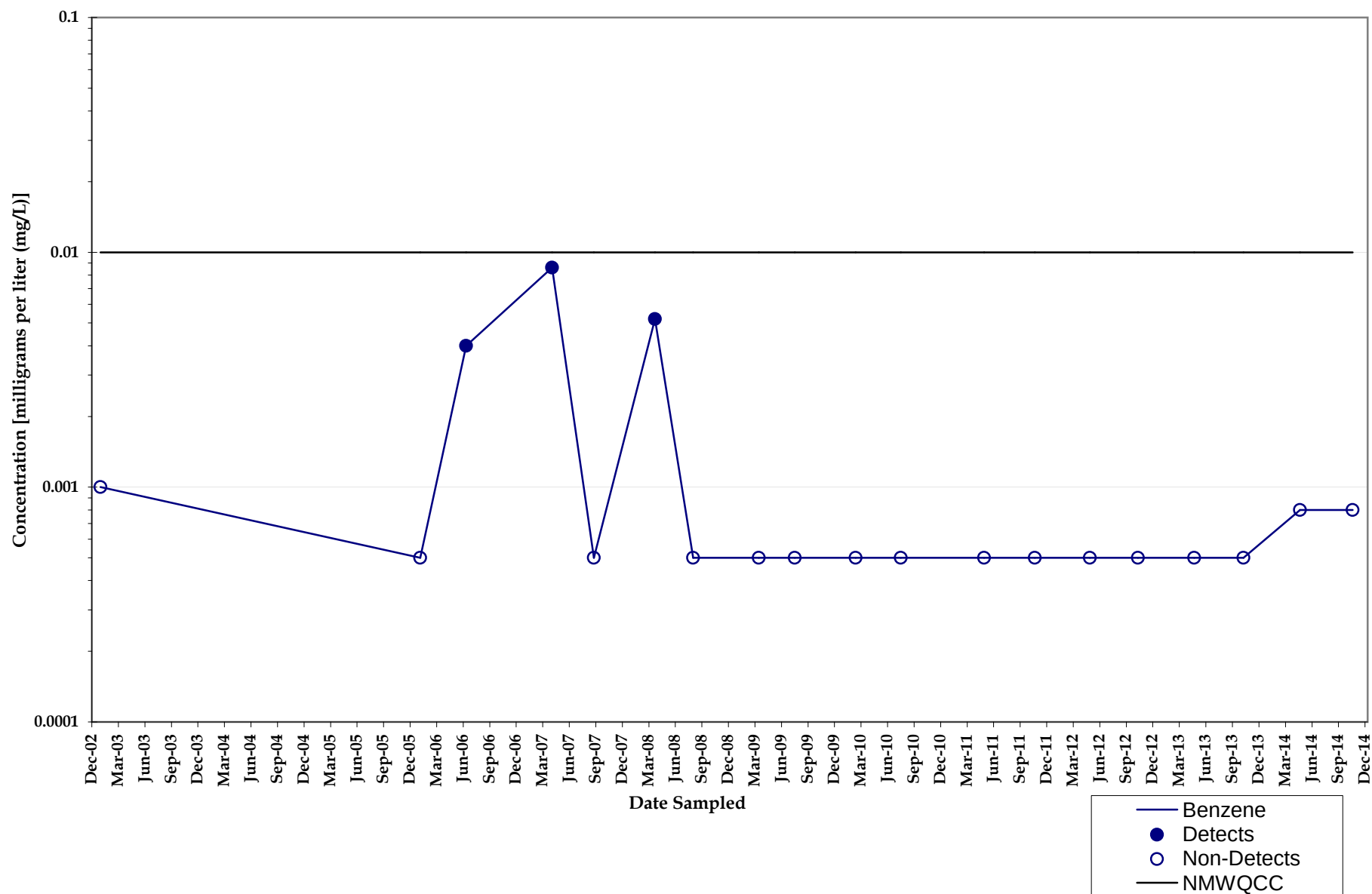


Benzene Concentrations Monitoring Well MW062SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

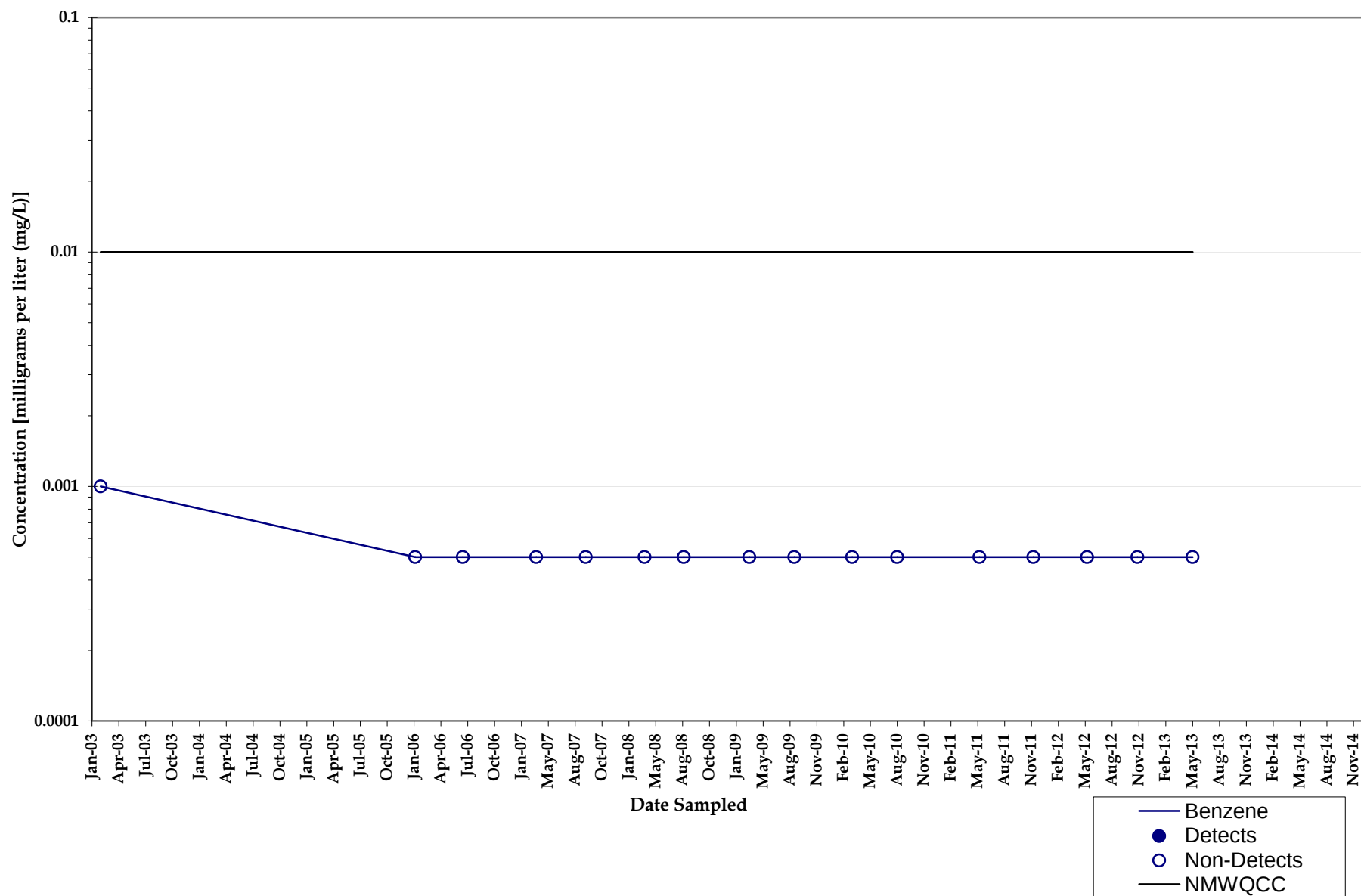


Benzene Concentrations Monitoring Well MW063A

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

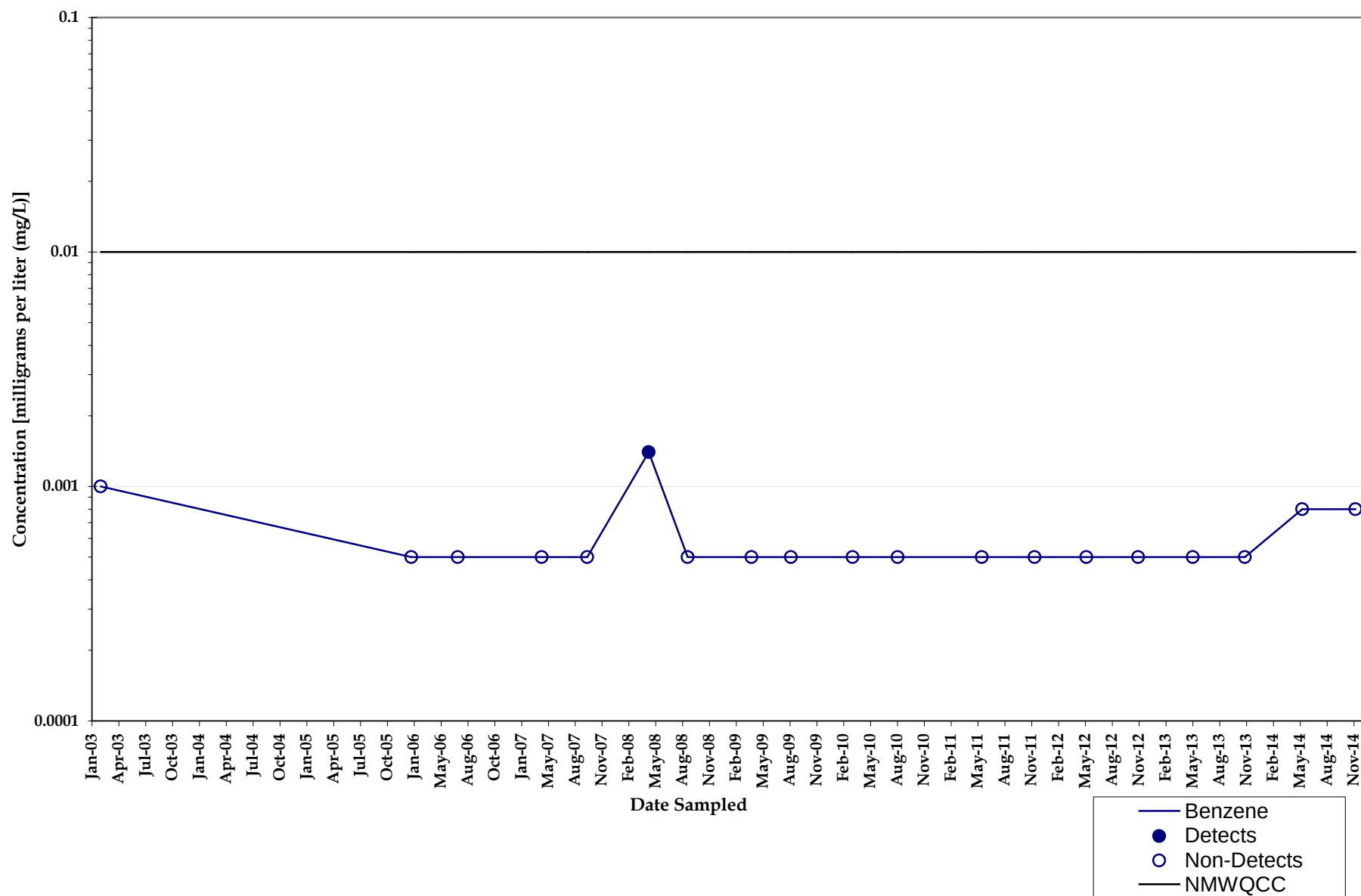


Benzene Concentrations Monitoring Well MW064SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

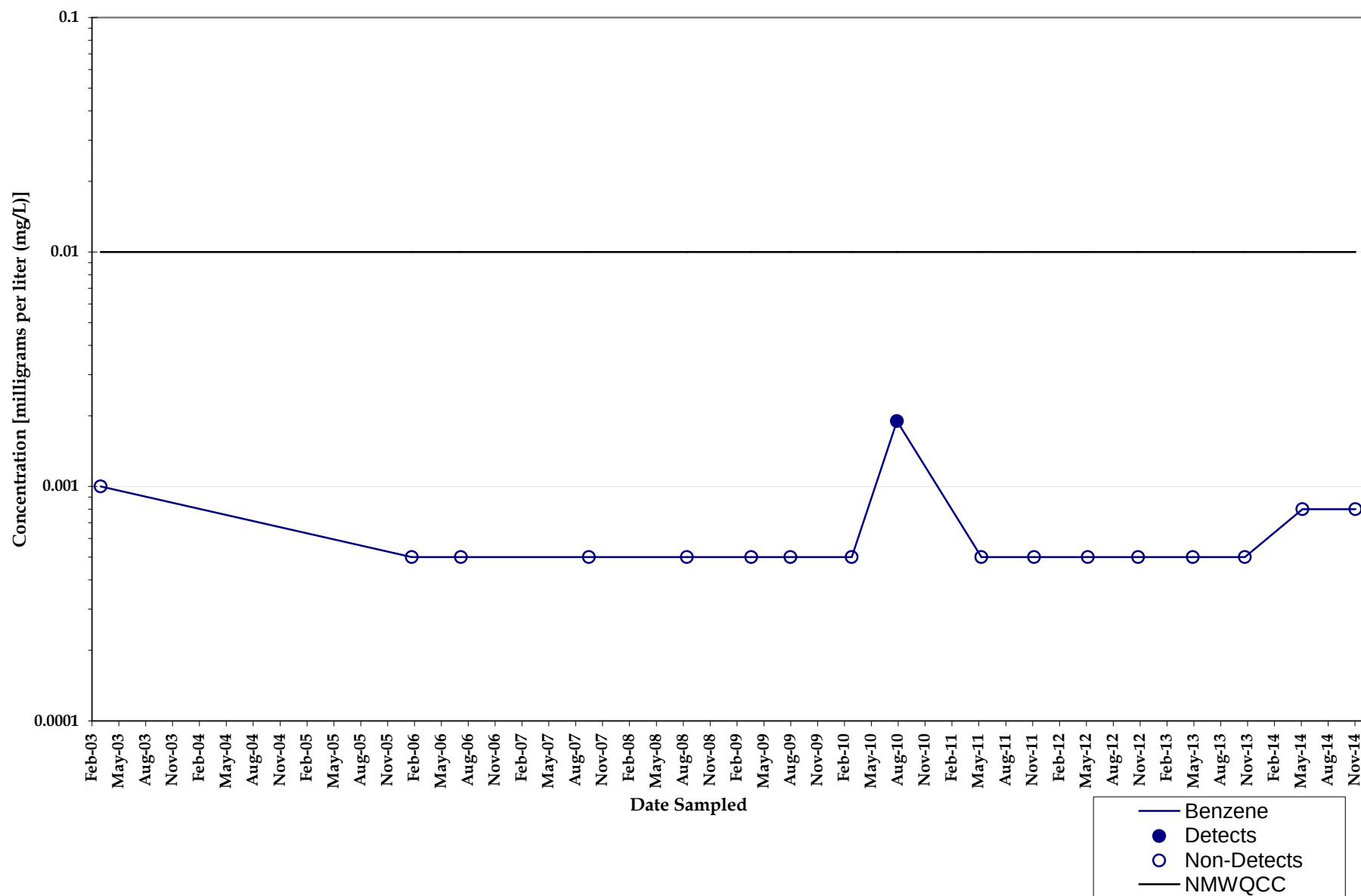


Benzene Concentrations Monitoring Well MW065SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

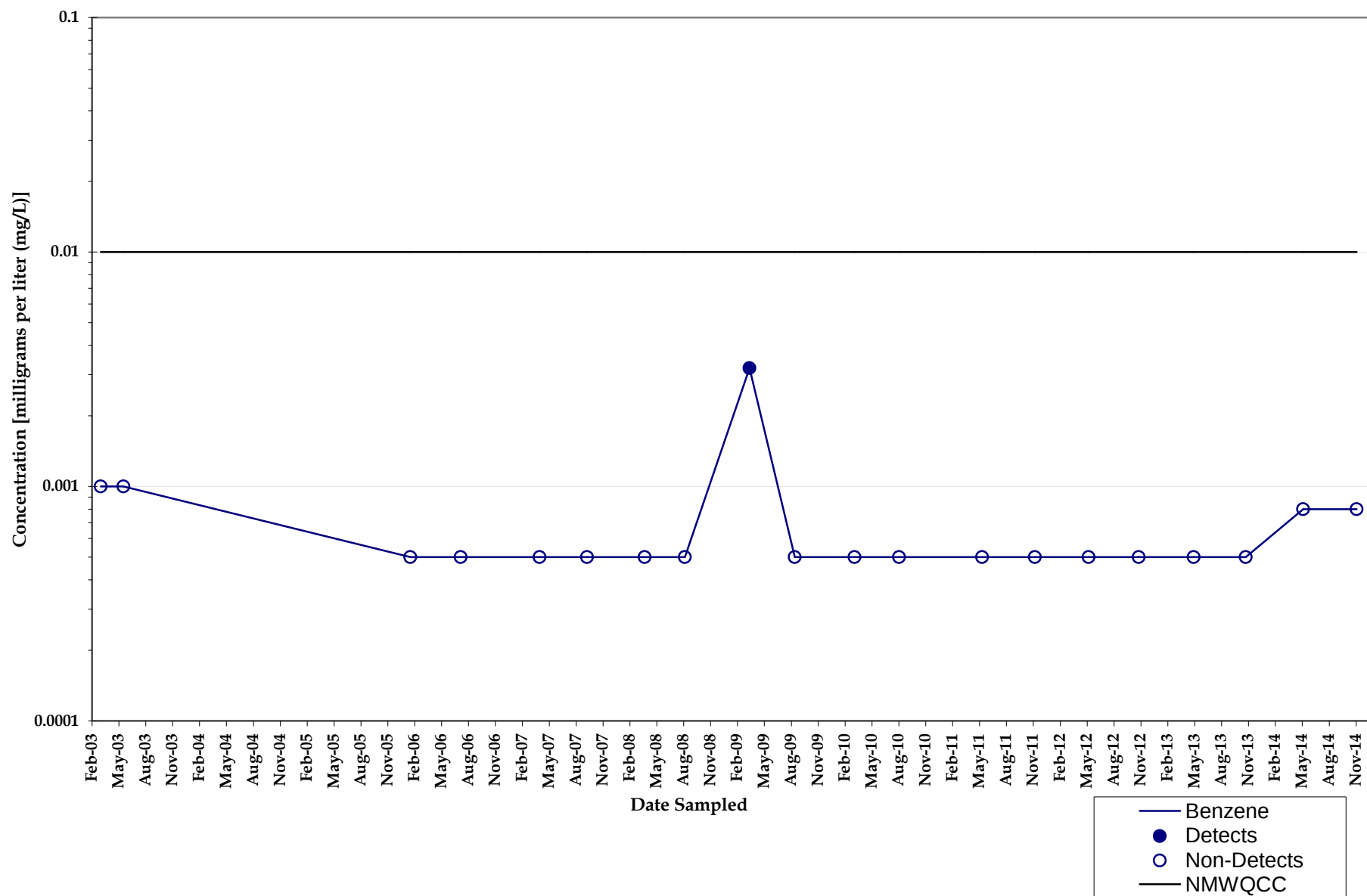


Benzene Concentrations Monitoring Well MW066SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

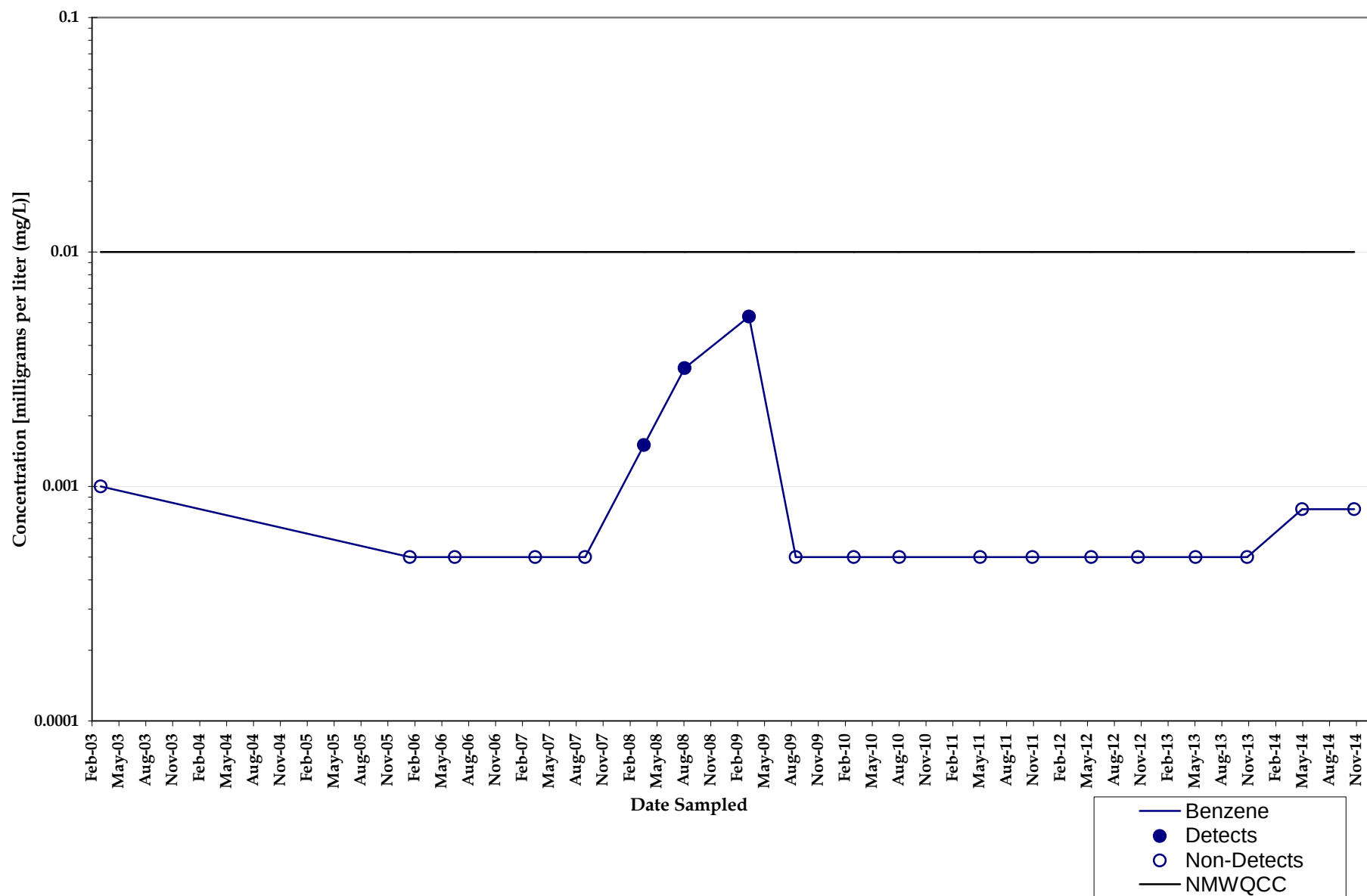


Benzene Concentrations Monitoring Well MW067SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

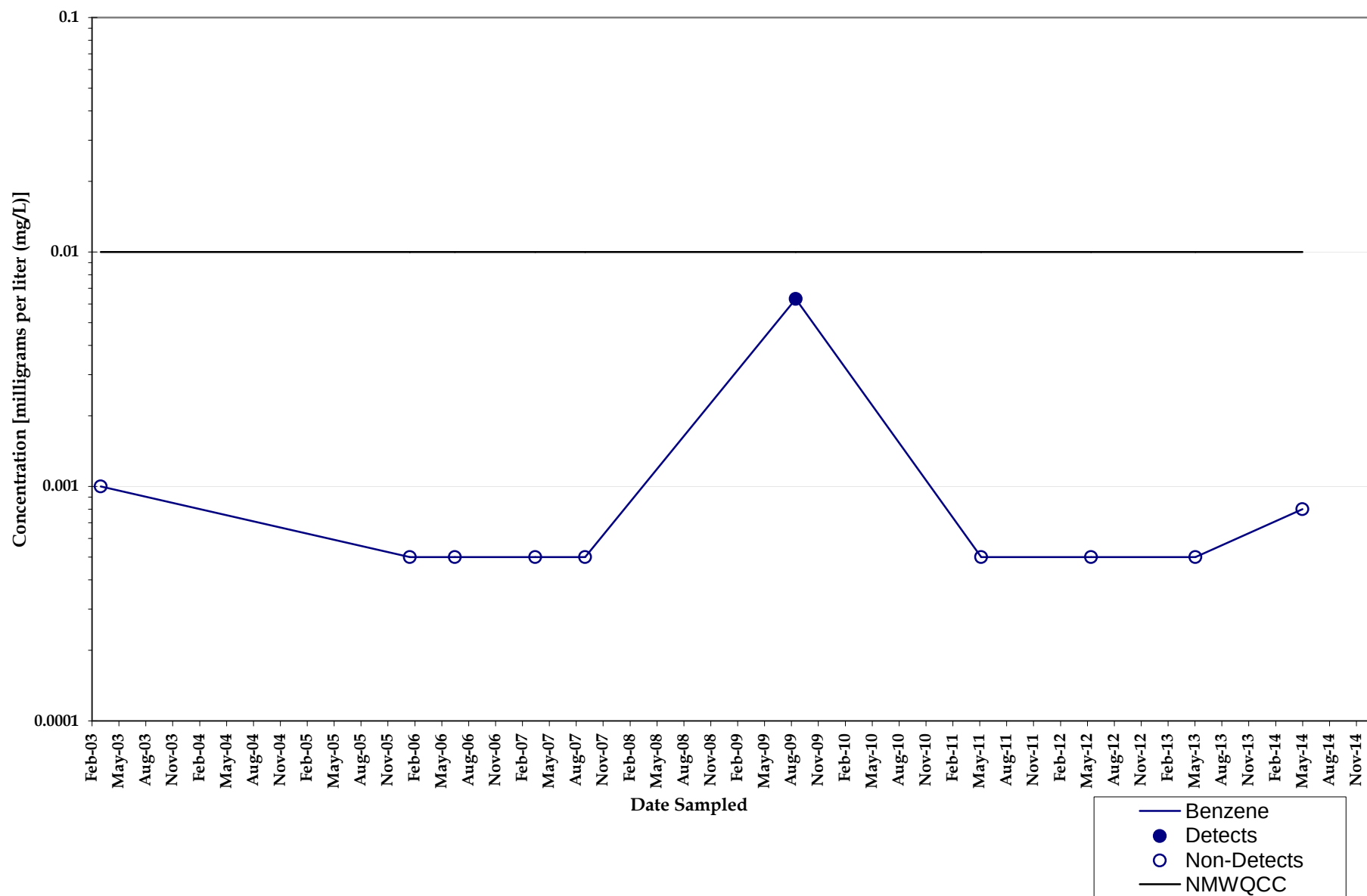


Benzene Concentrations Monitoring Well MW068

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by shaded symbol and detection values greater than the RL denoted by shaded symbol.

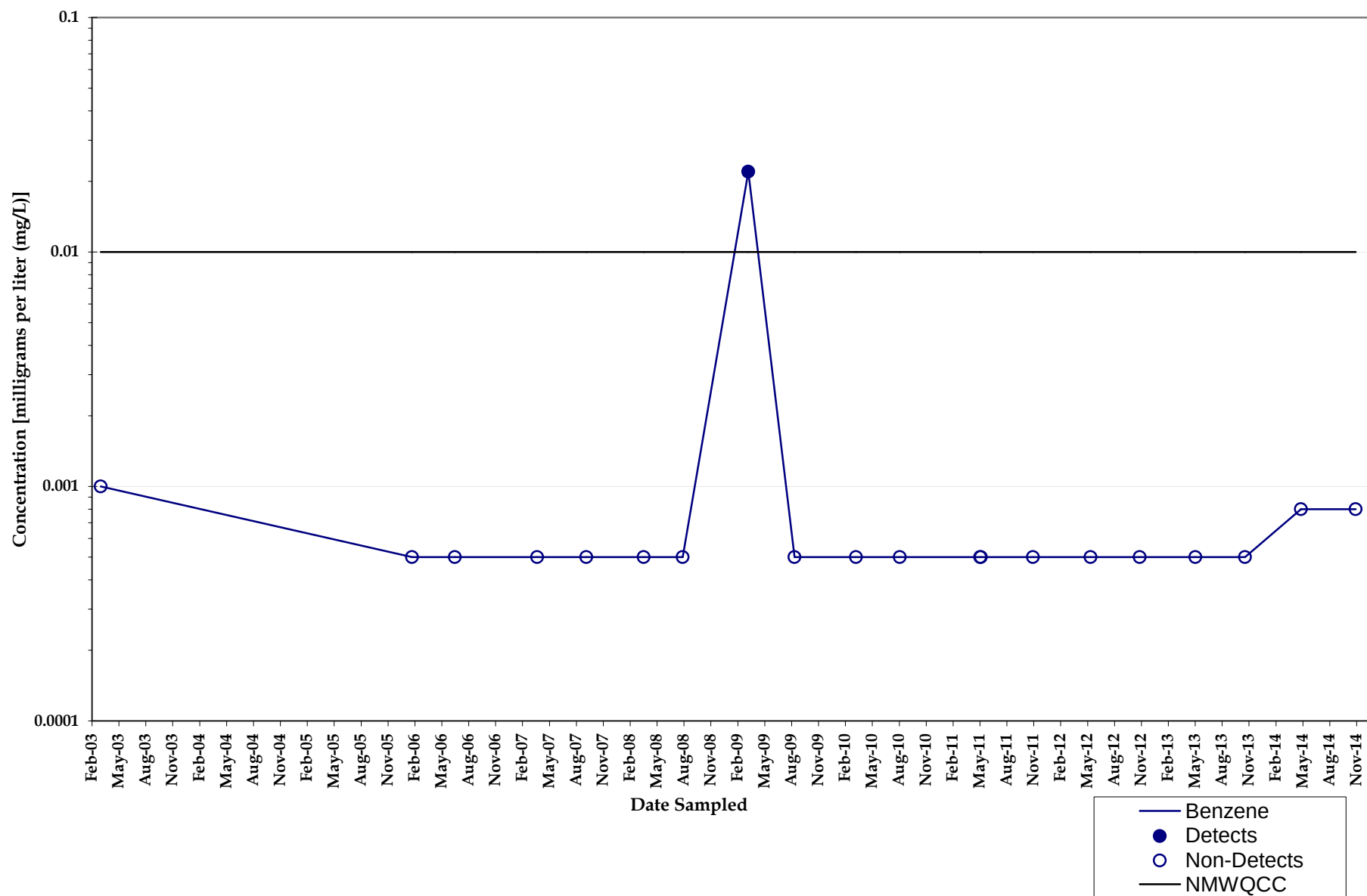


Benzene Concentrations Monitoring Well MW069

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

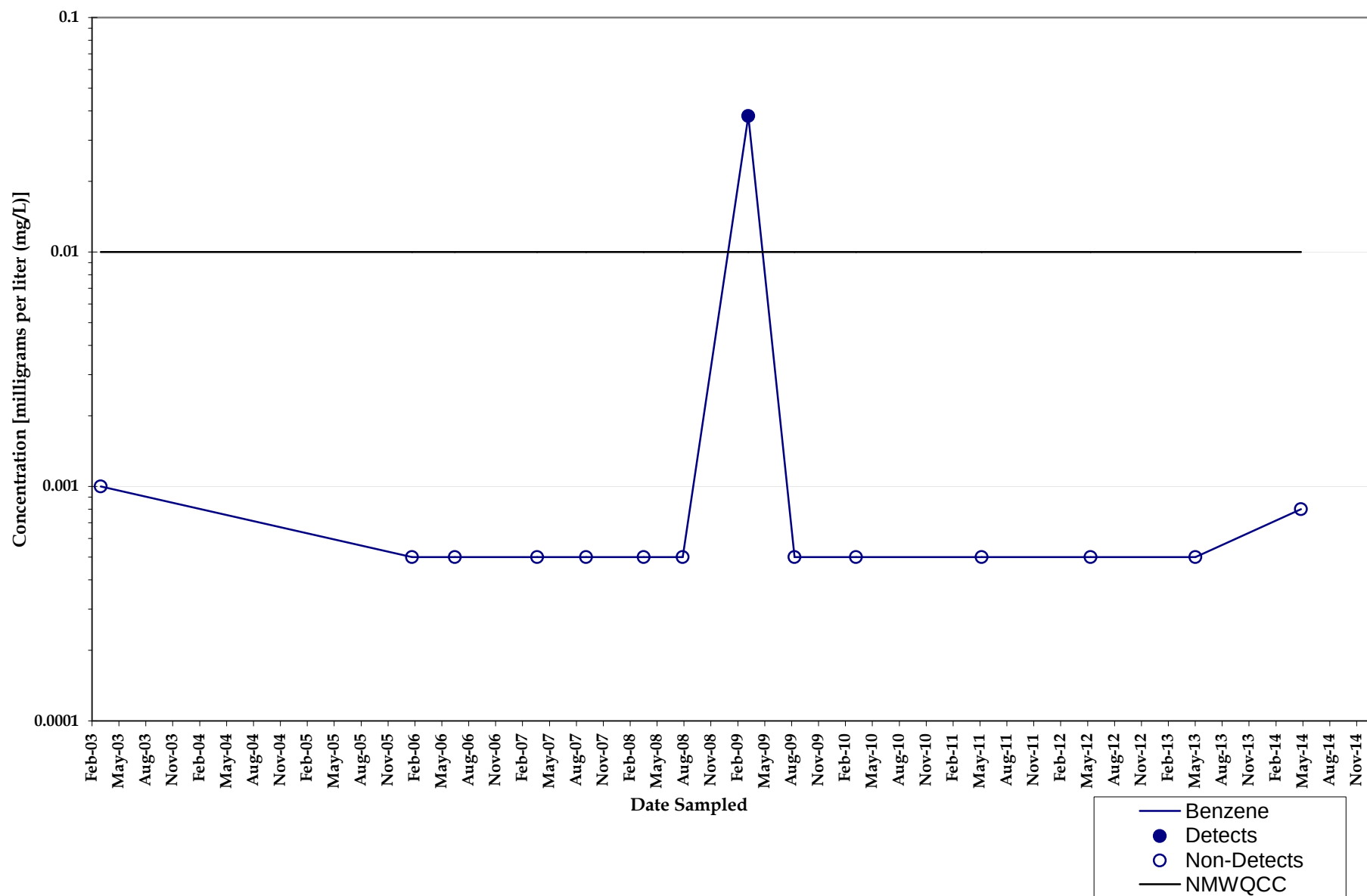


Benzene Concentrations Monitoring Well MW070

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

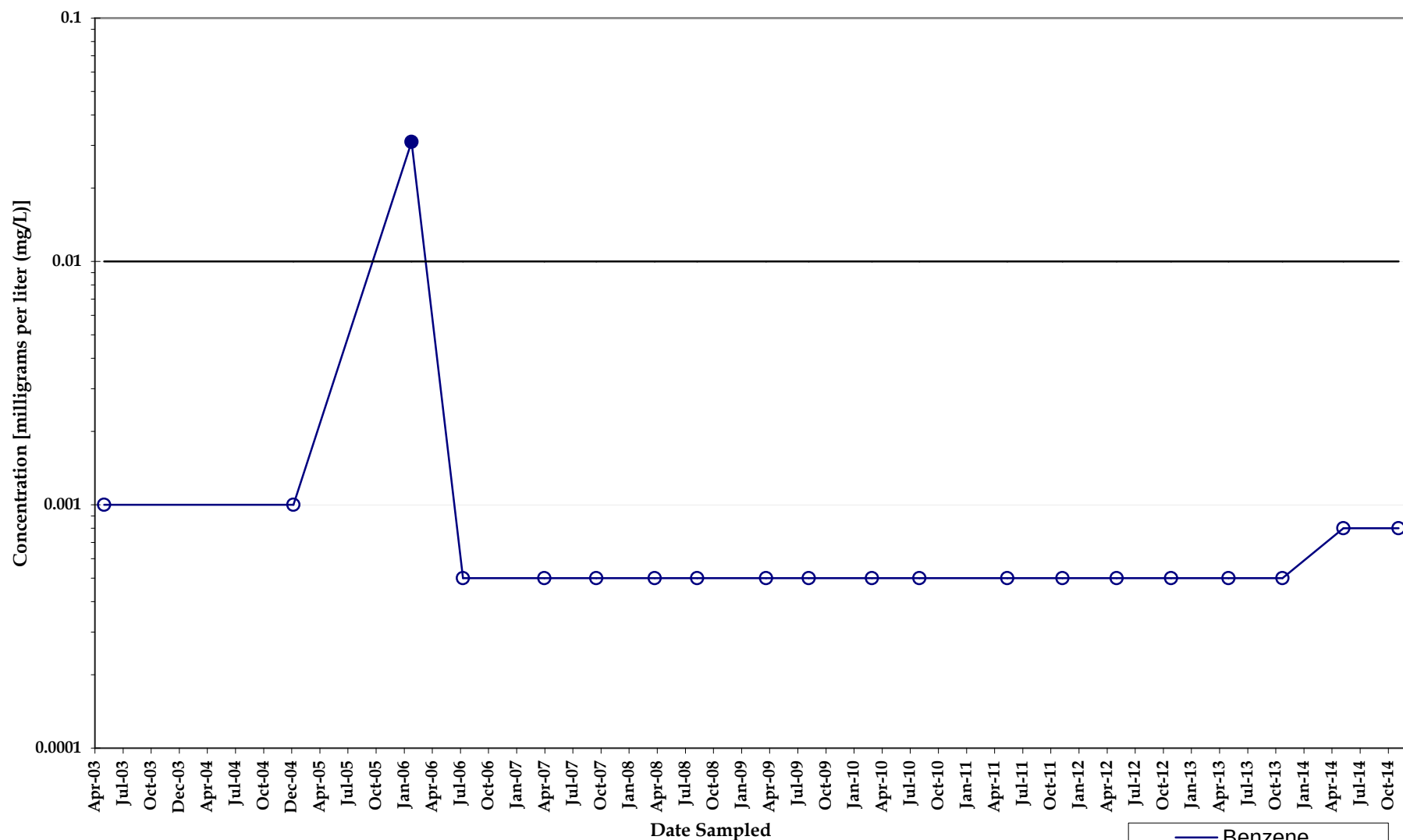


Benzene Concentrations Monitoring Well MW070A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

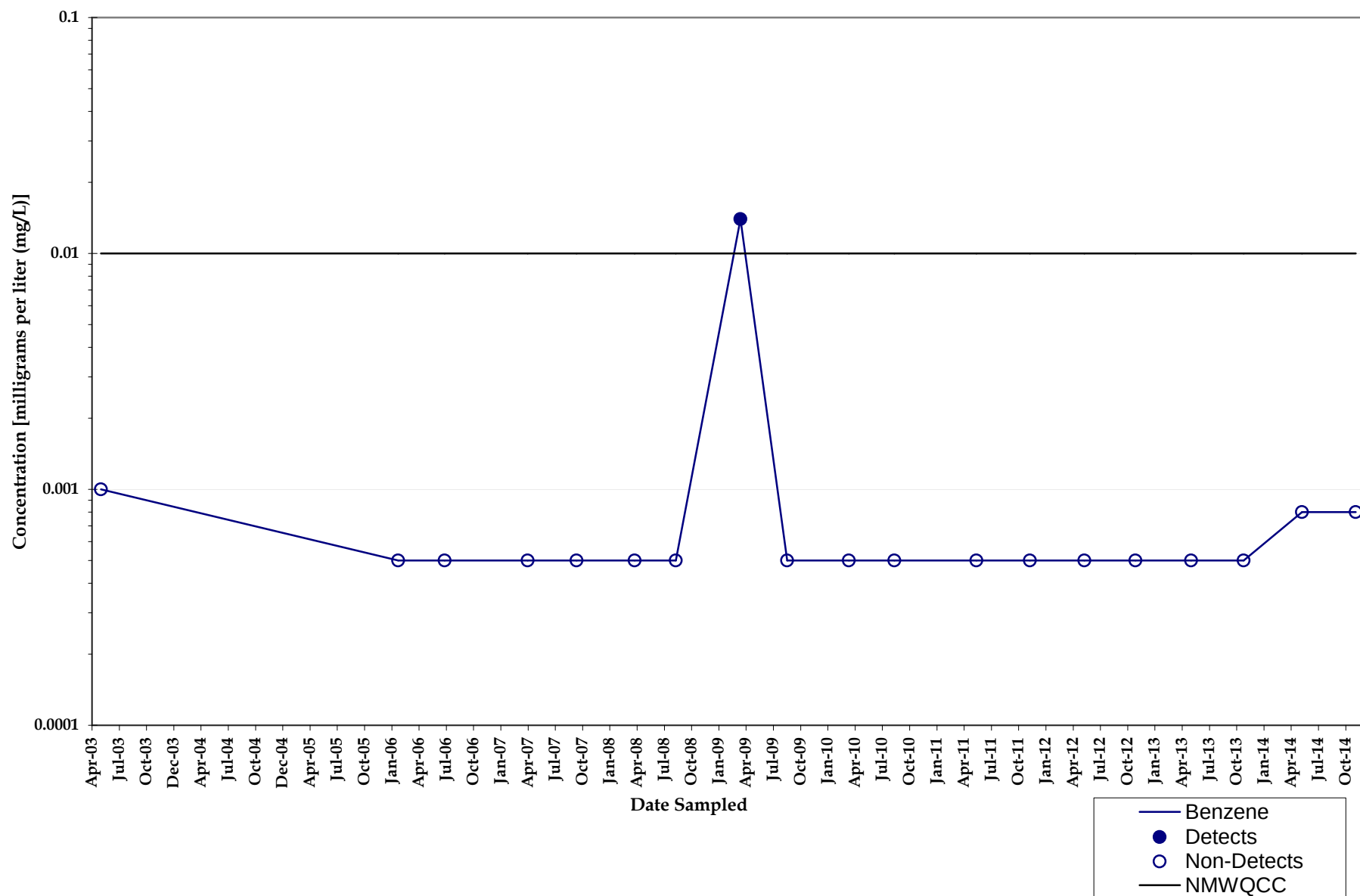


Benzene Concentrations Monitoring Well MW071SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

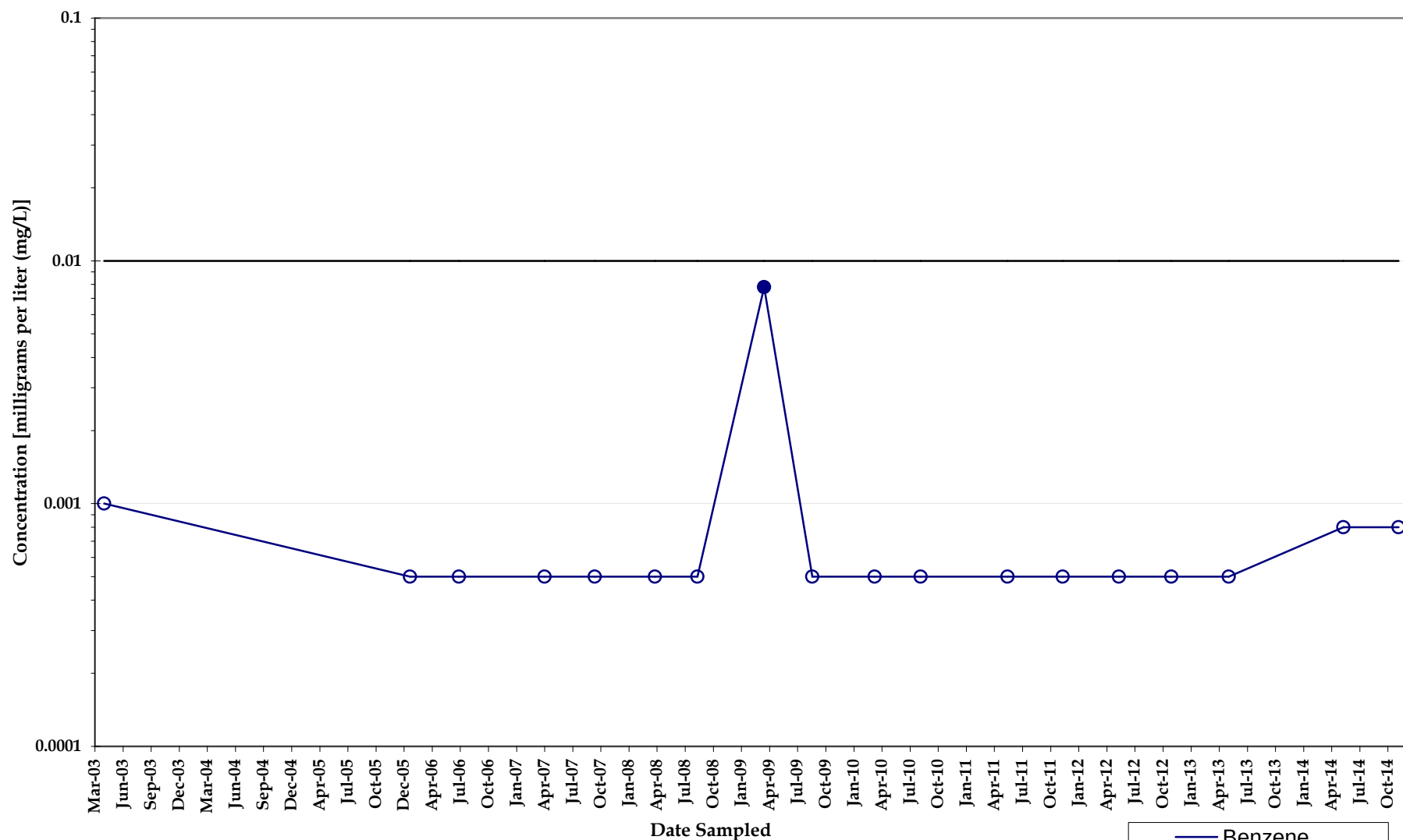


Benzene Concentrations Monitoring Well MW072SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

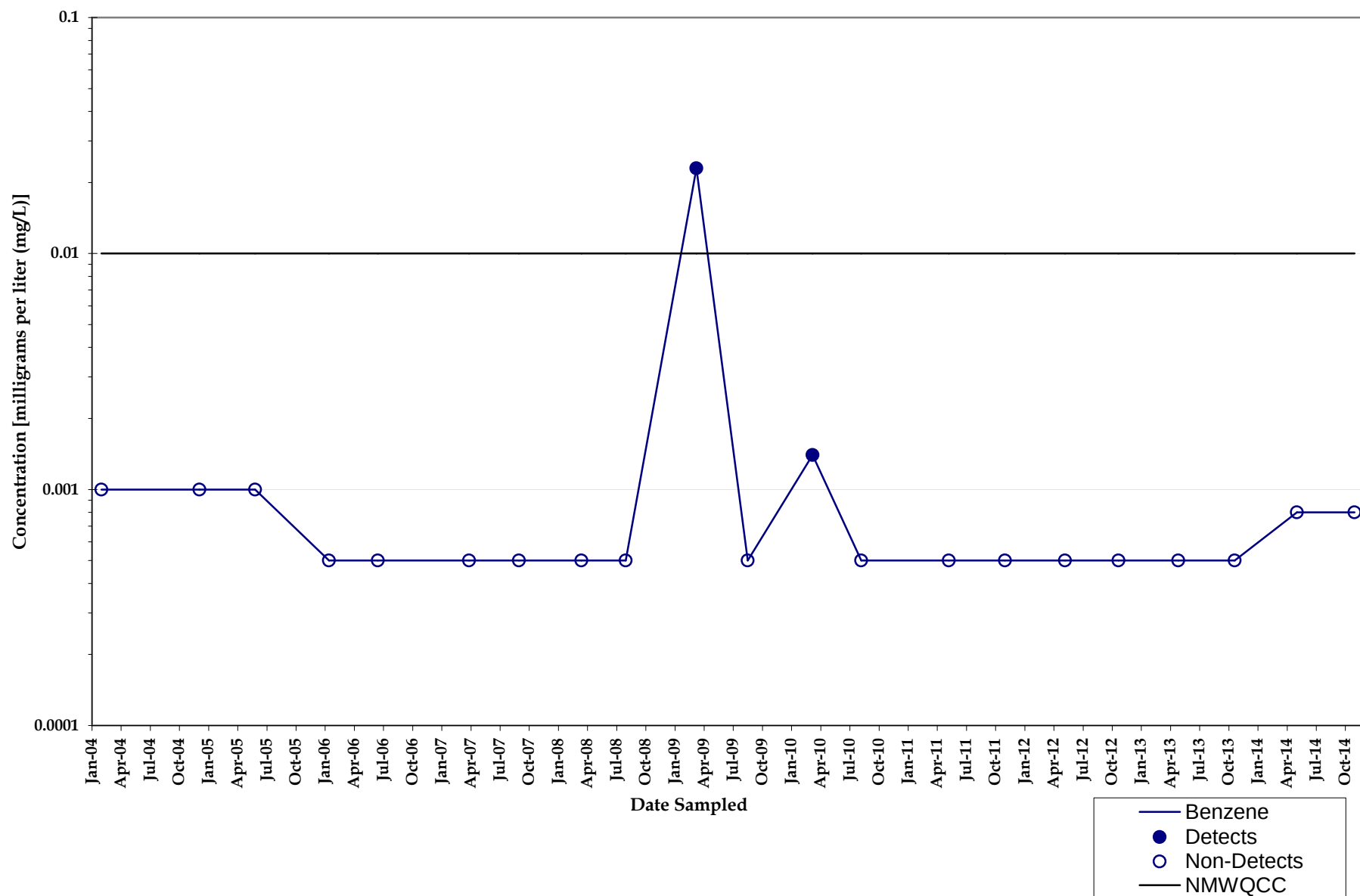


Benzene Concentrations Monitoring Well MW073SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

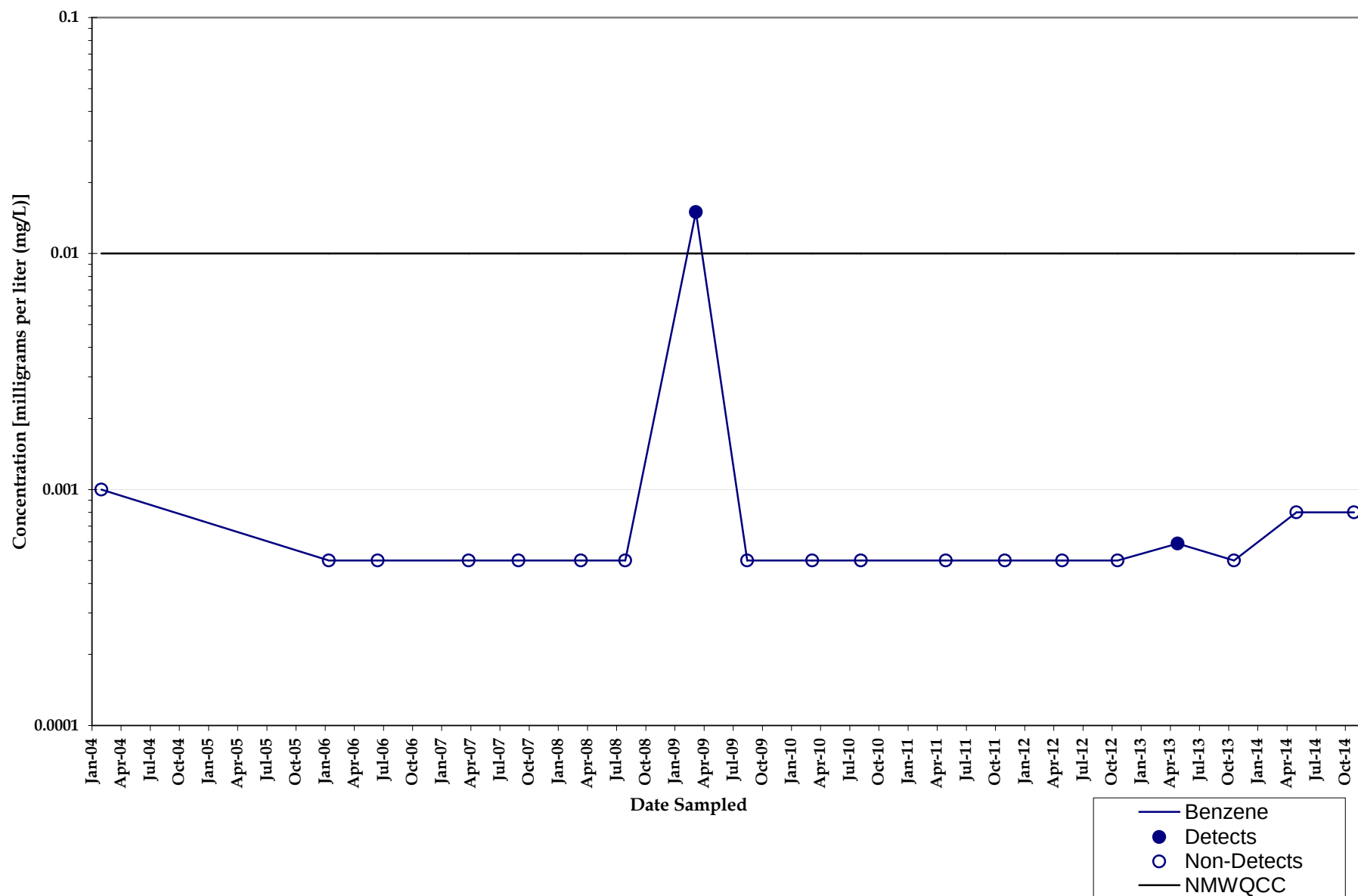


Benzene Concentrations Monitoring Well MW074SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

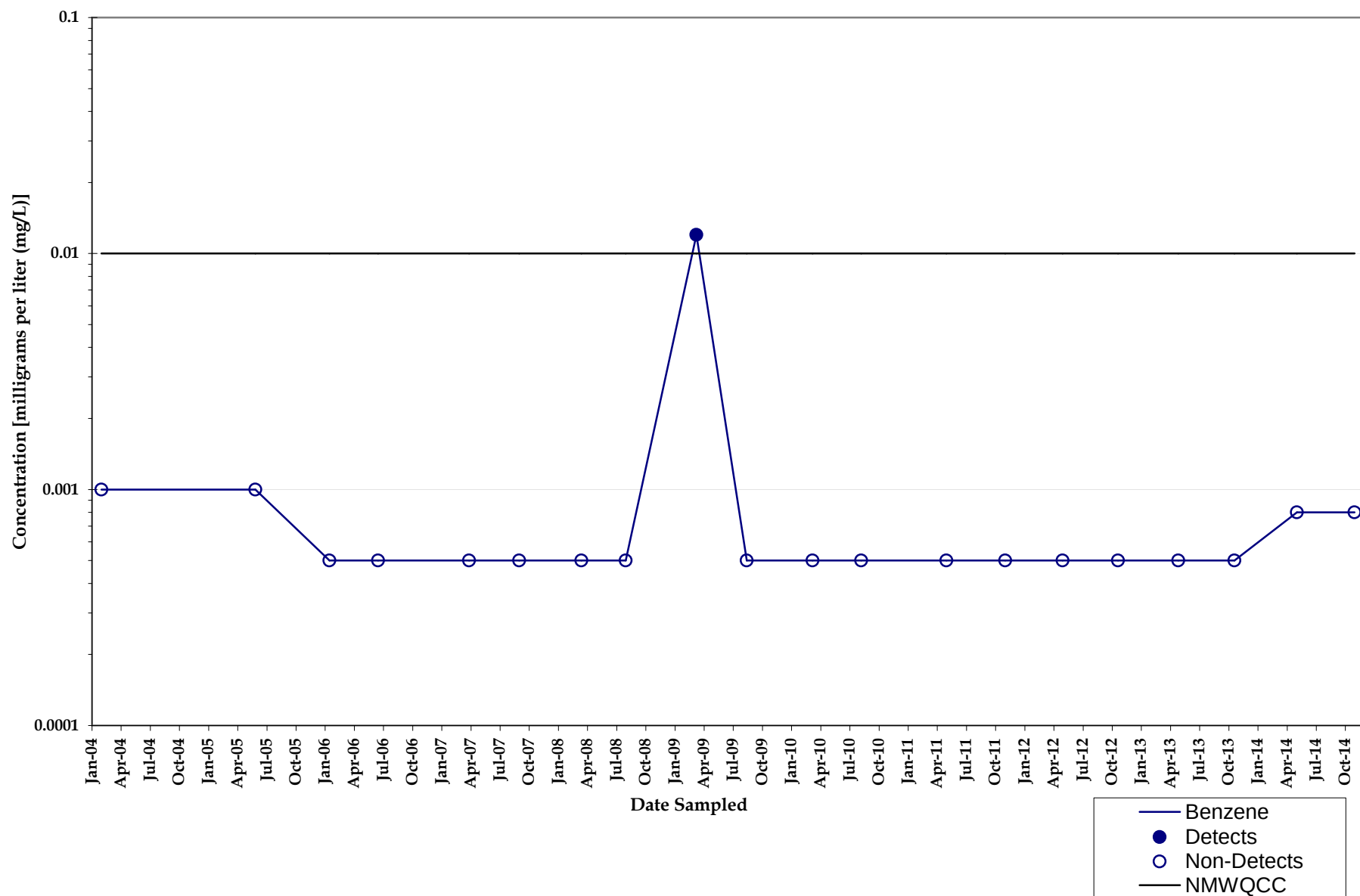


Benzene Concentrations Monitoring Well MW075SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

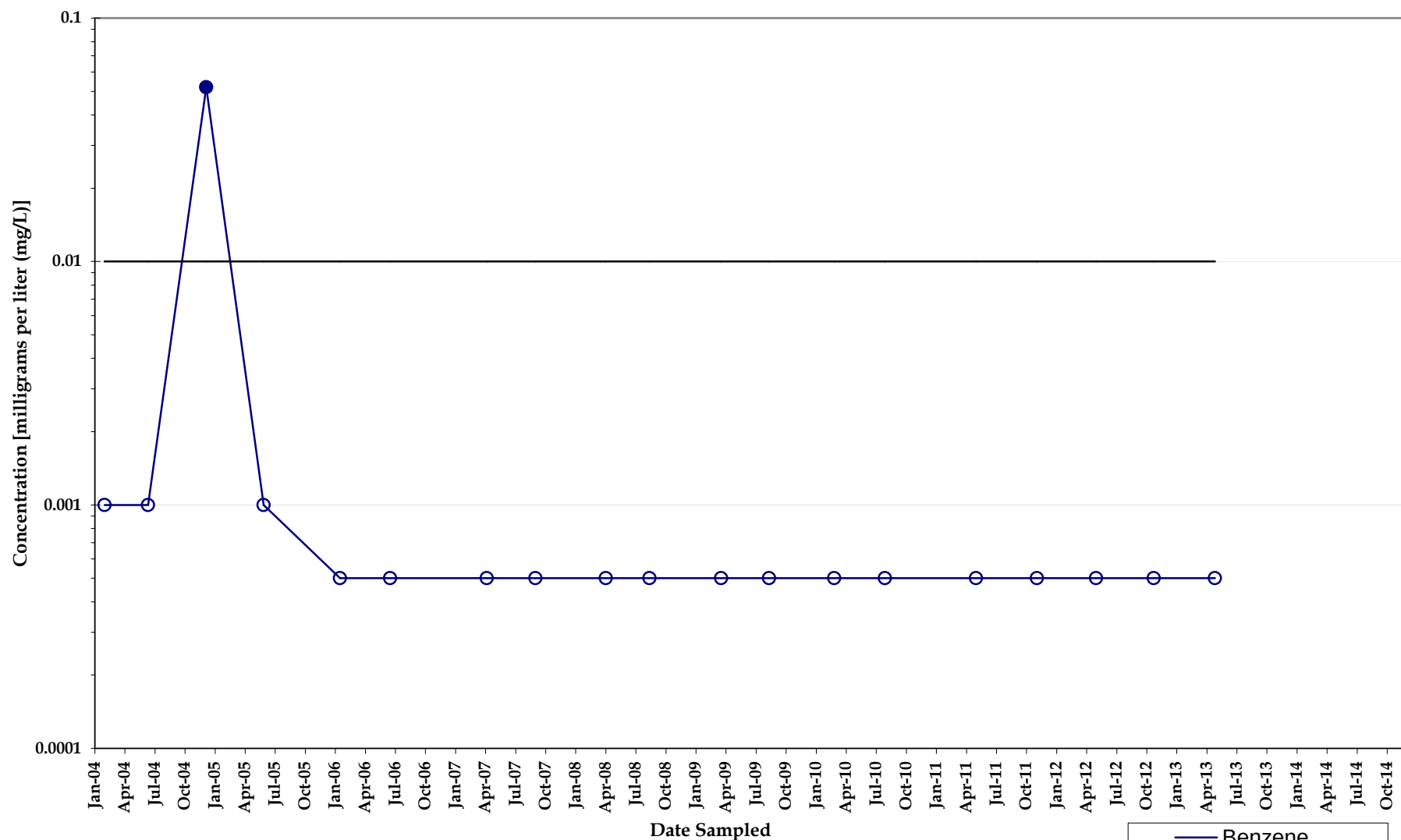


Benzene Concentrations Monitoring Well MW076SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

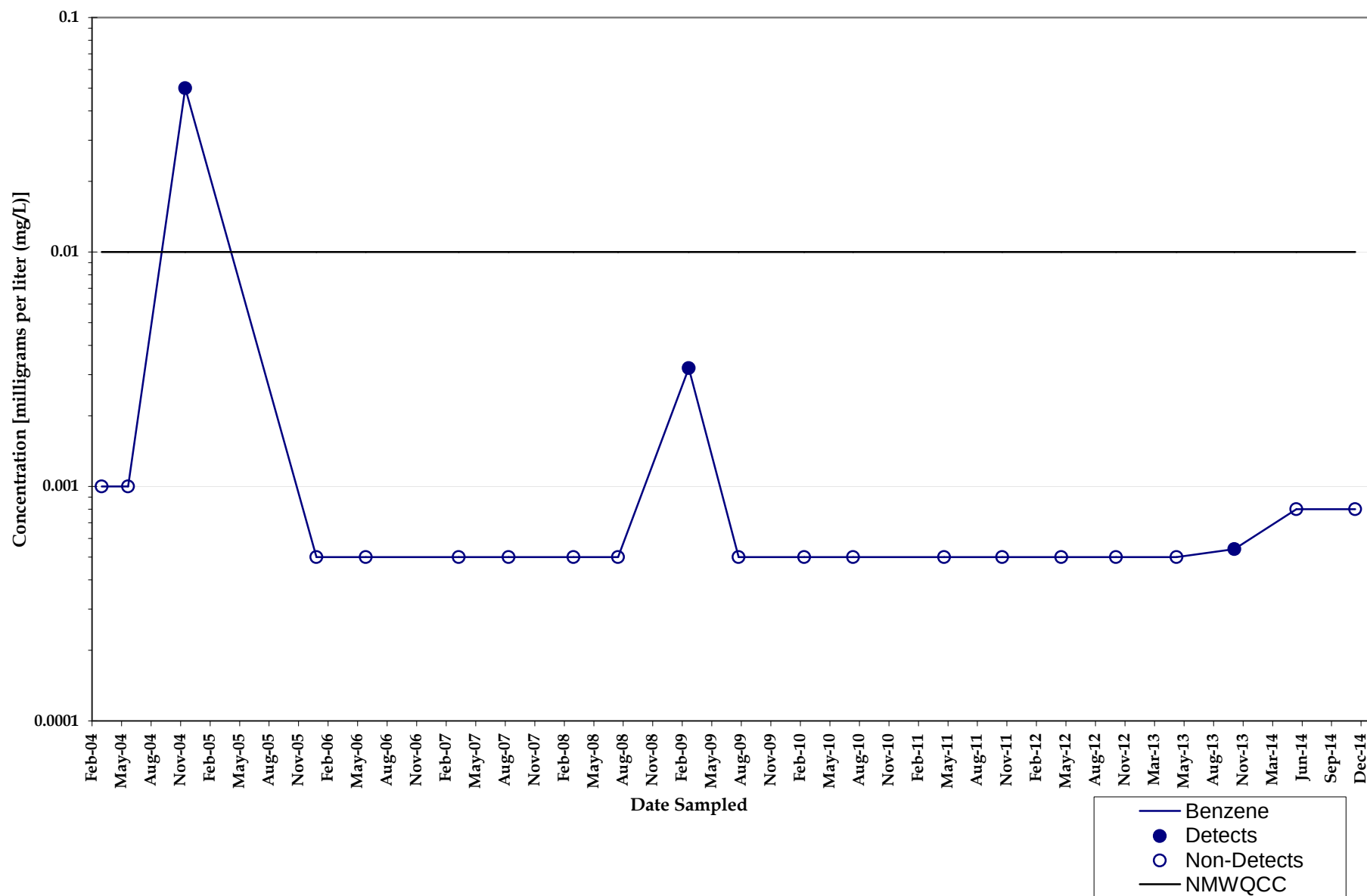


Benzene Concentrations Monitoring Well MW077SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

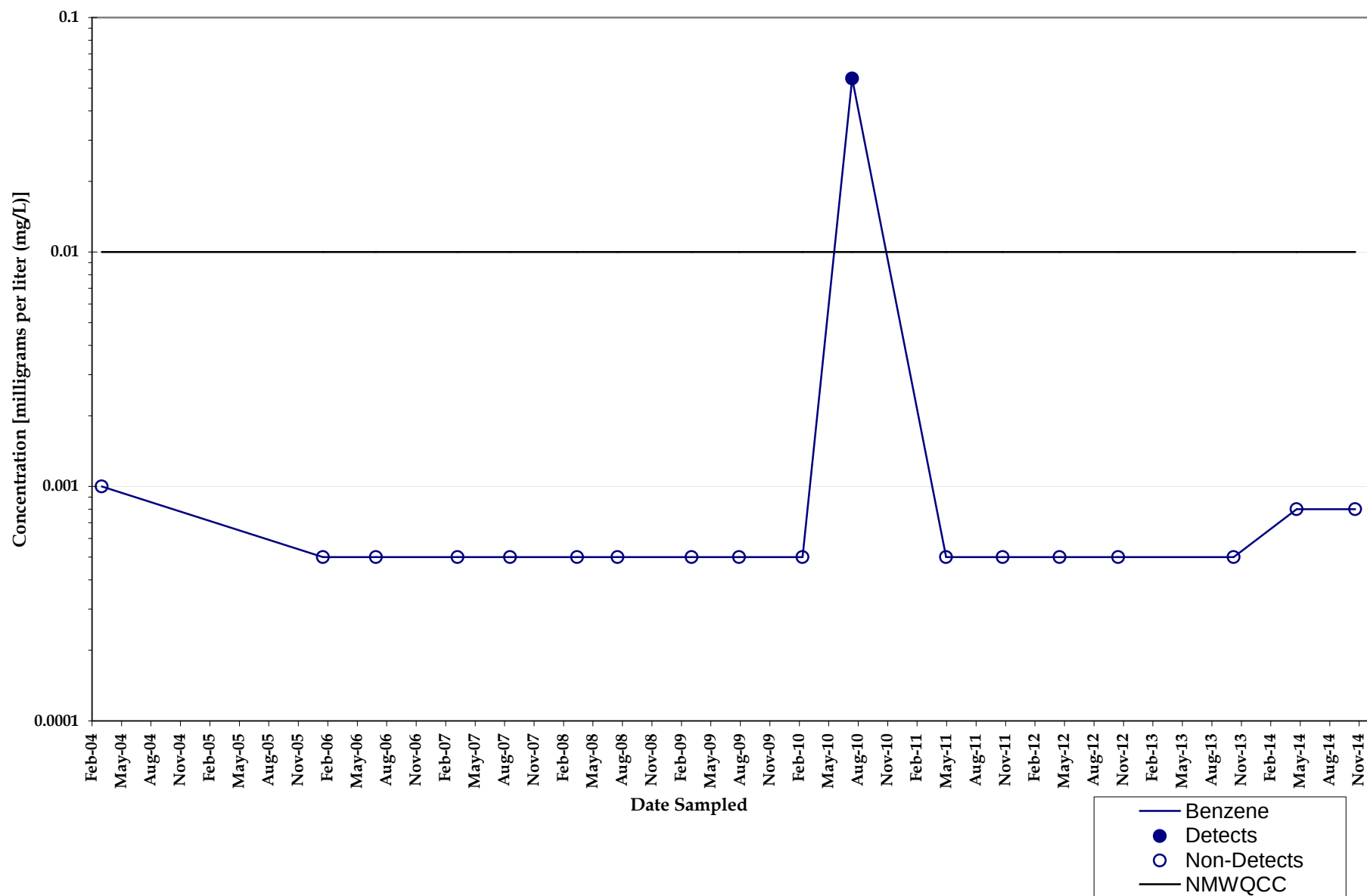


Benzene Concentrations Monitoring Well MW078SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

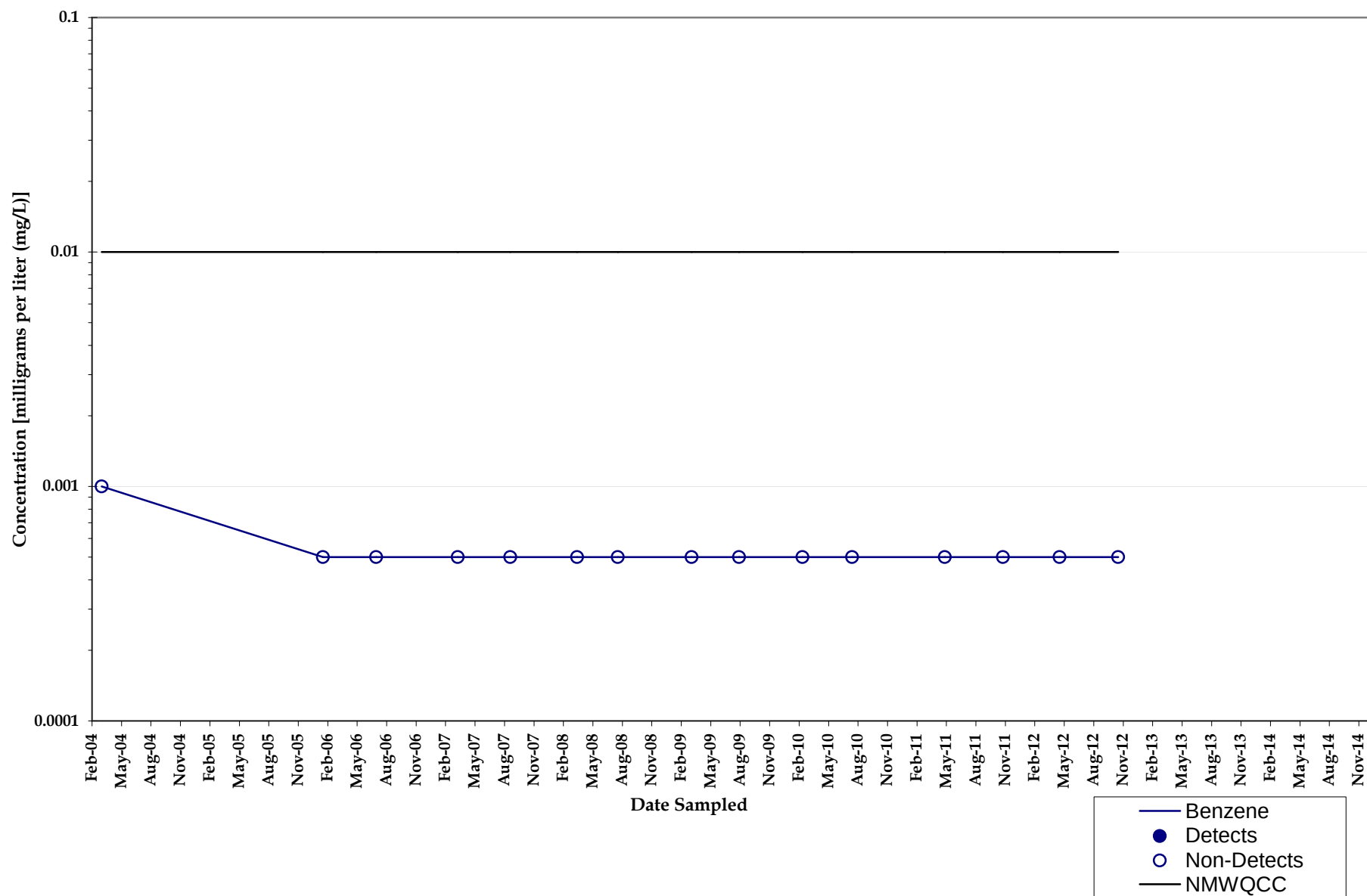


Benzene Concentrations Monitoring Well MW079SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

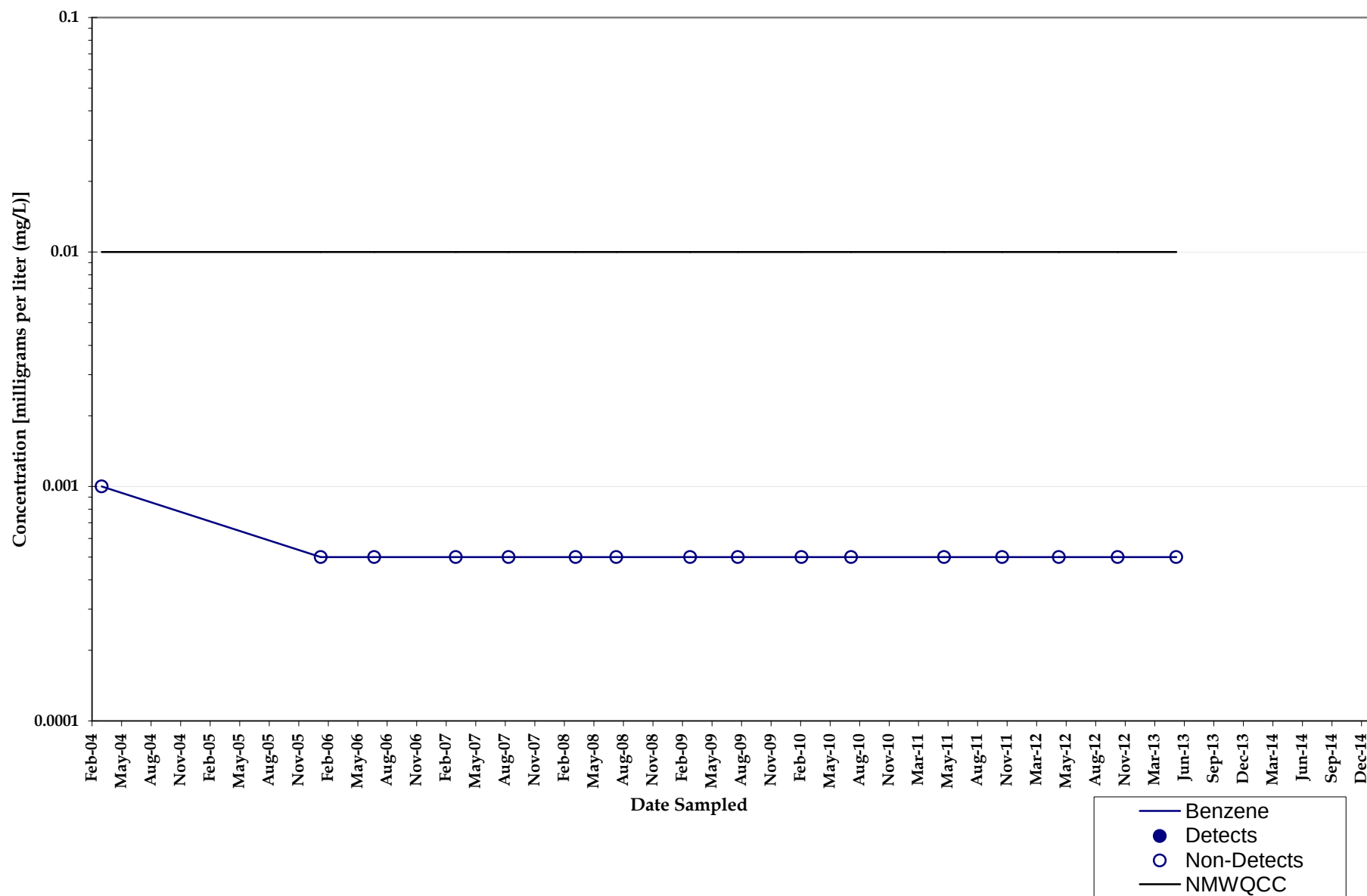


Benzene Concentrations Monitoring Well MW080SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

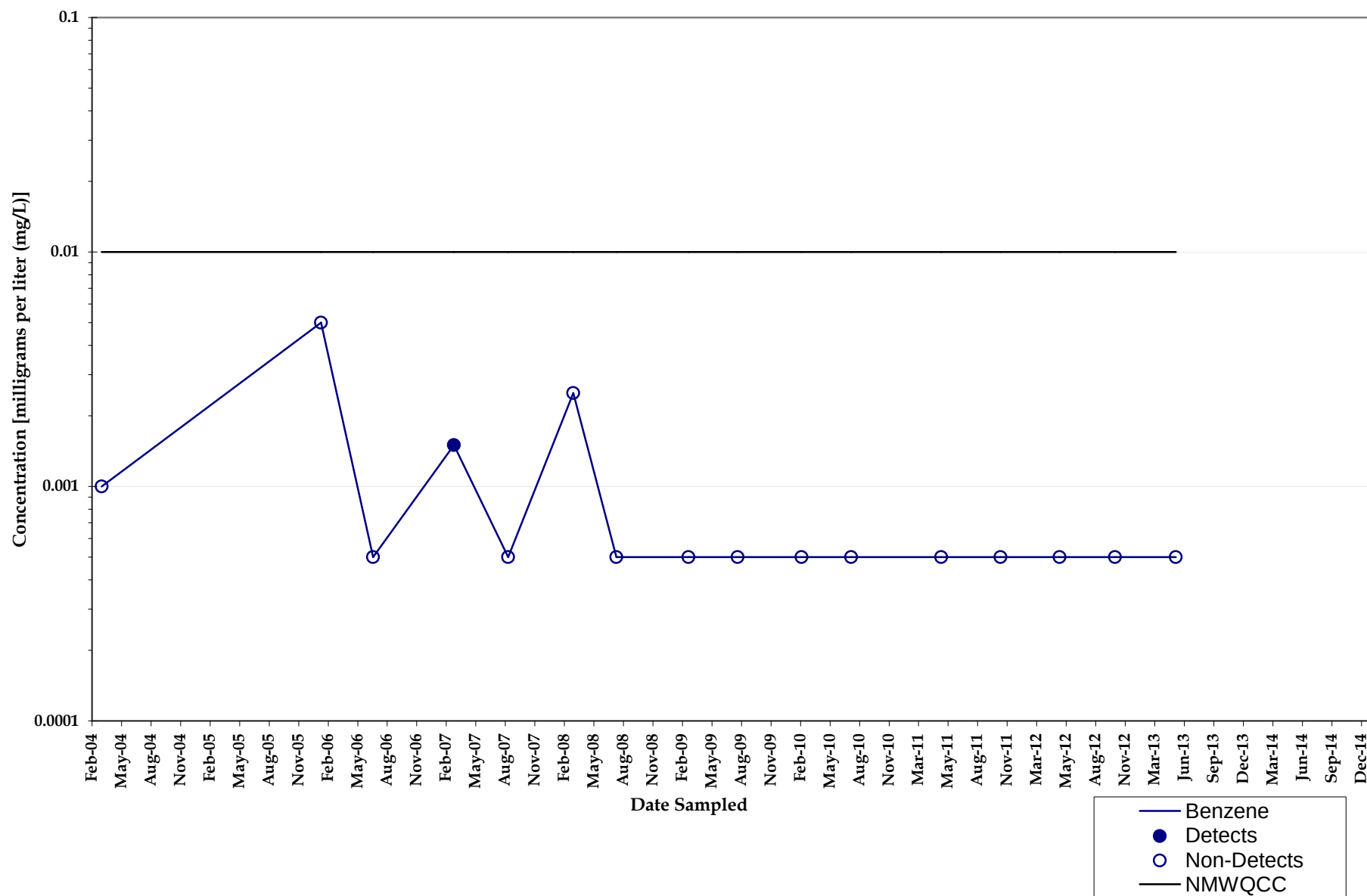


Benzene Concentrations Monitoring Well MW081SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

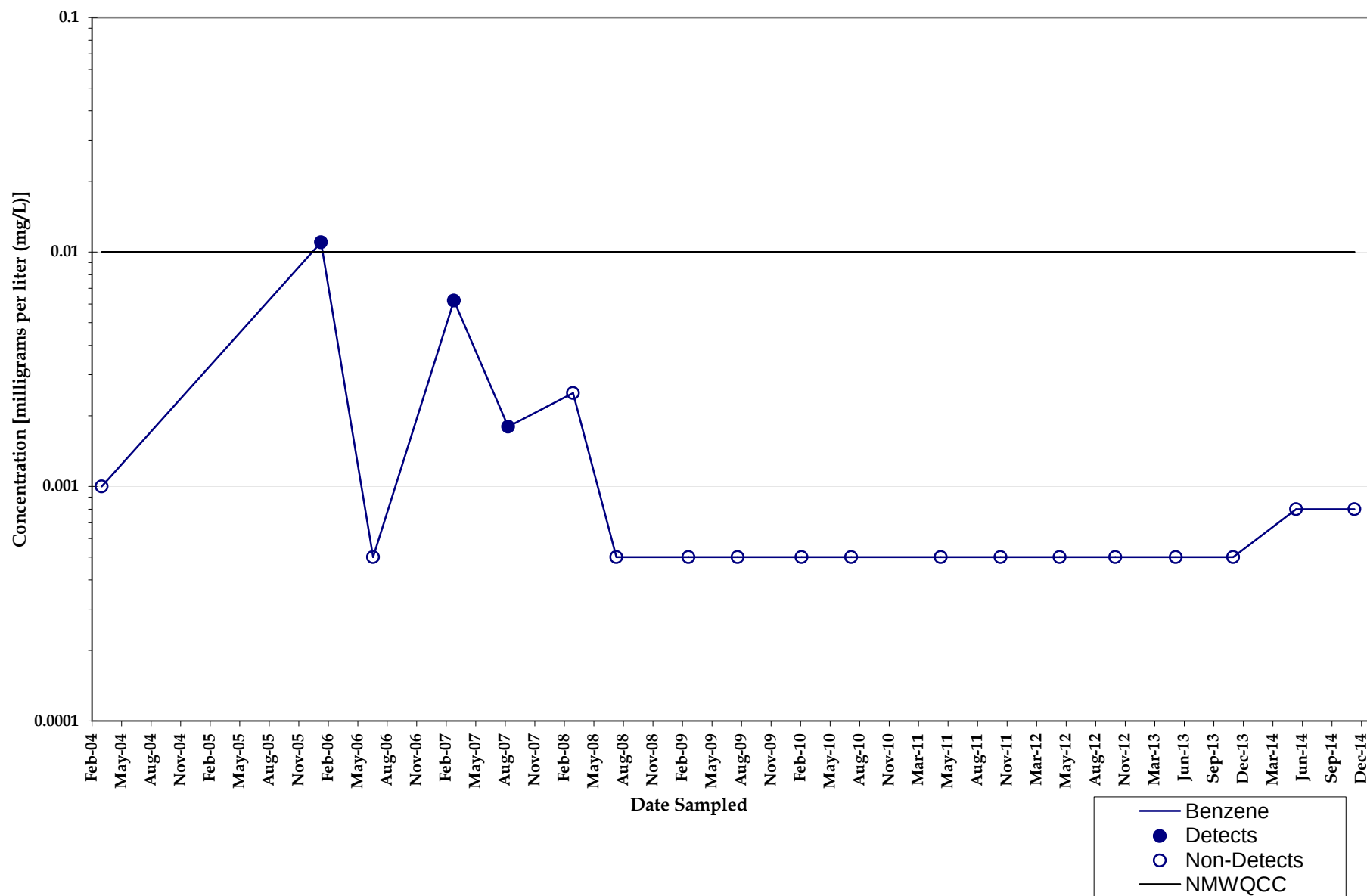


Benzene Concentrations Monitoring Well MW082SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

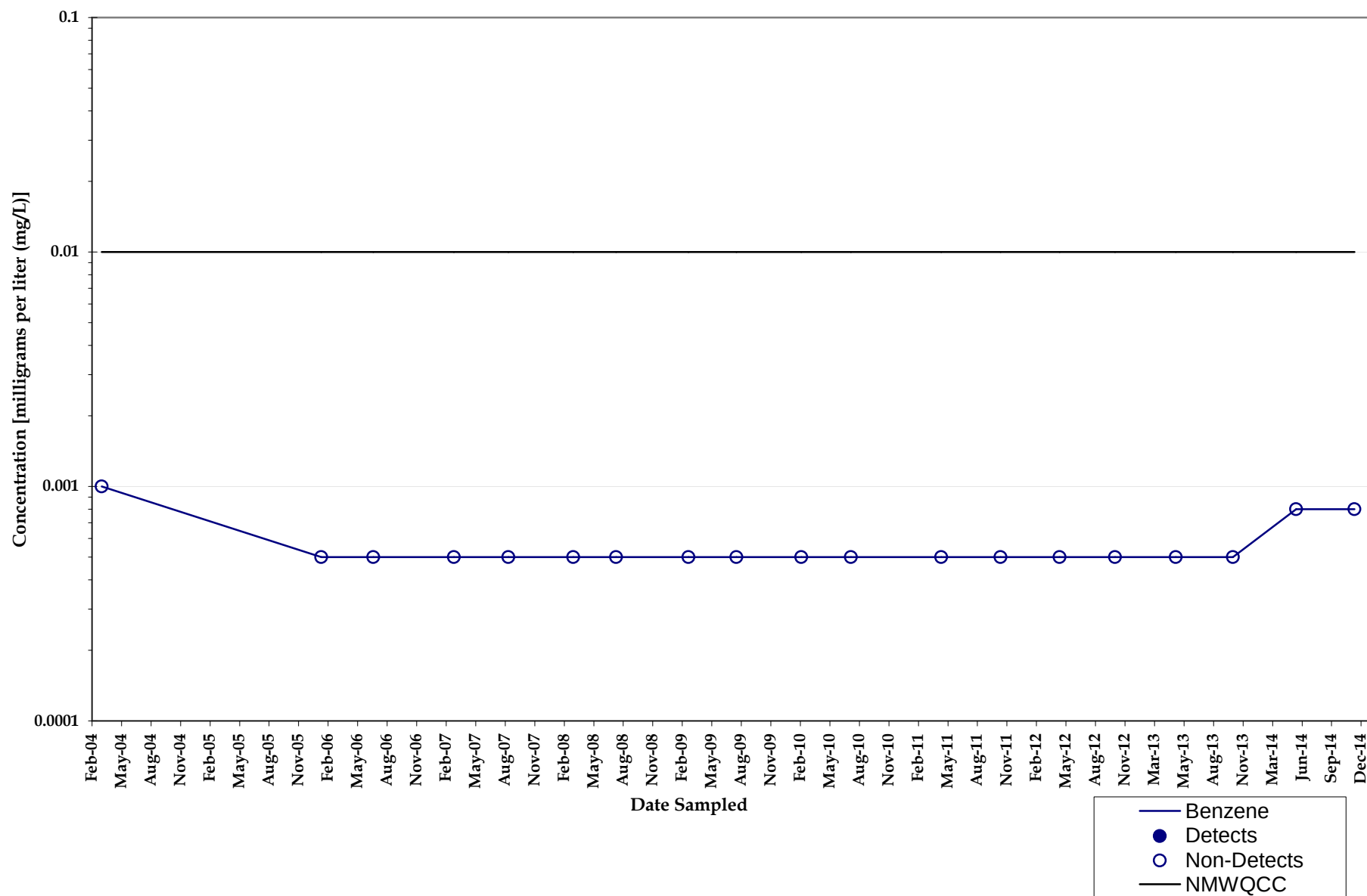


Benzene Concentrations Monitoring Well MW083SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

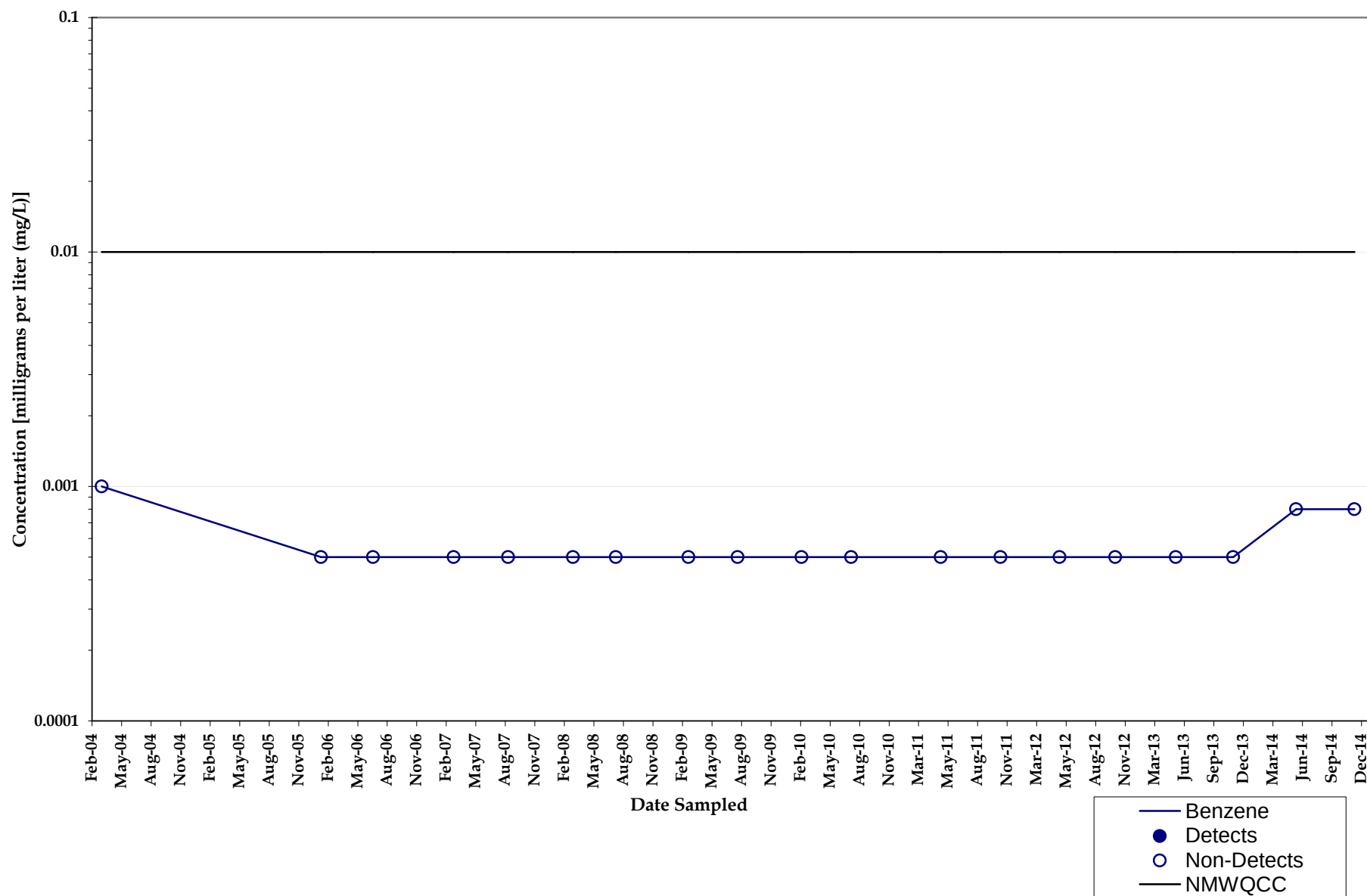


Benzene Concentrations Monitoring Well MW084SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

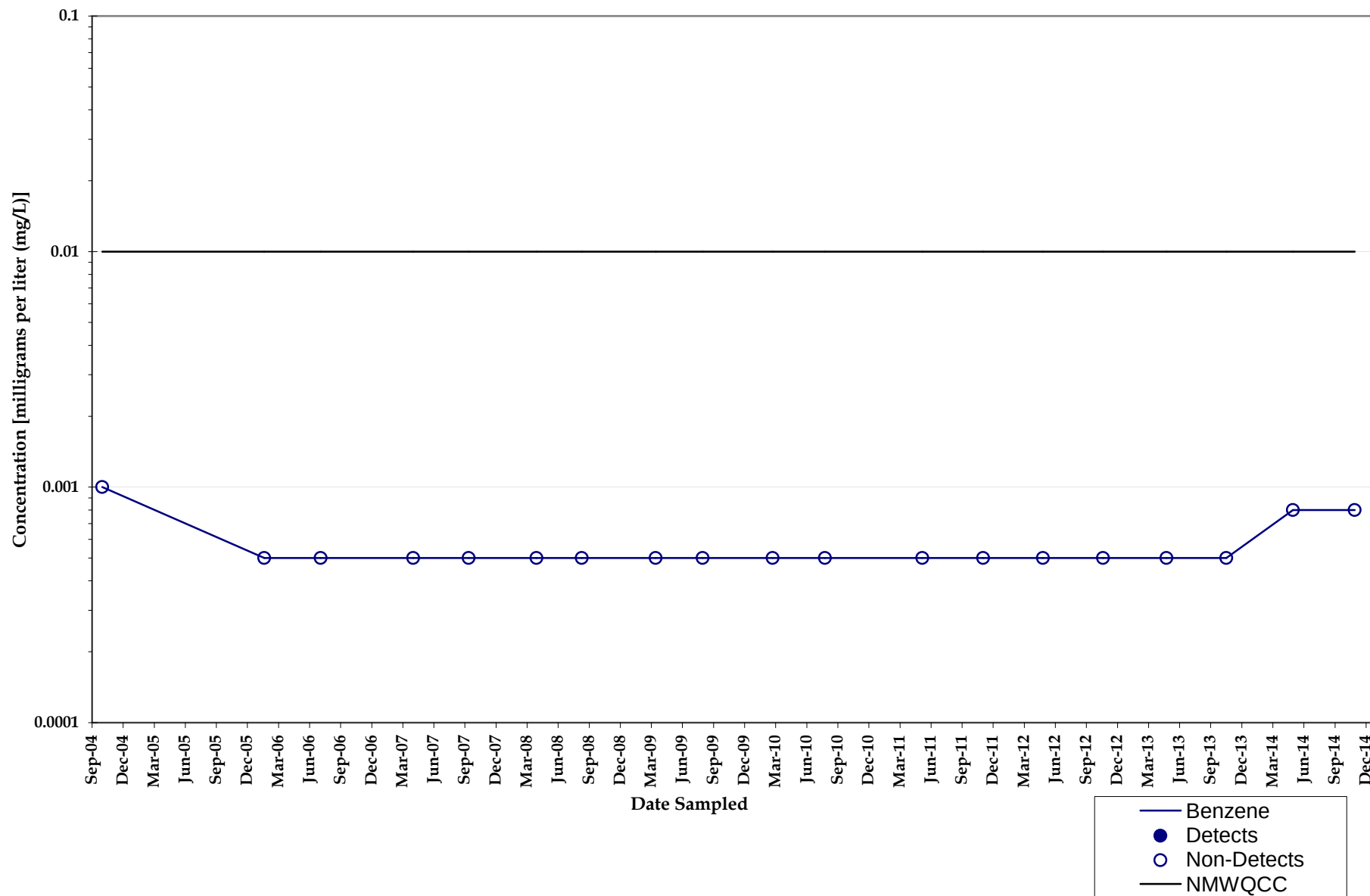


Benzene Concentrations Monitoring Well MW085SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

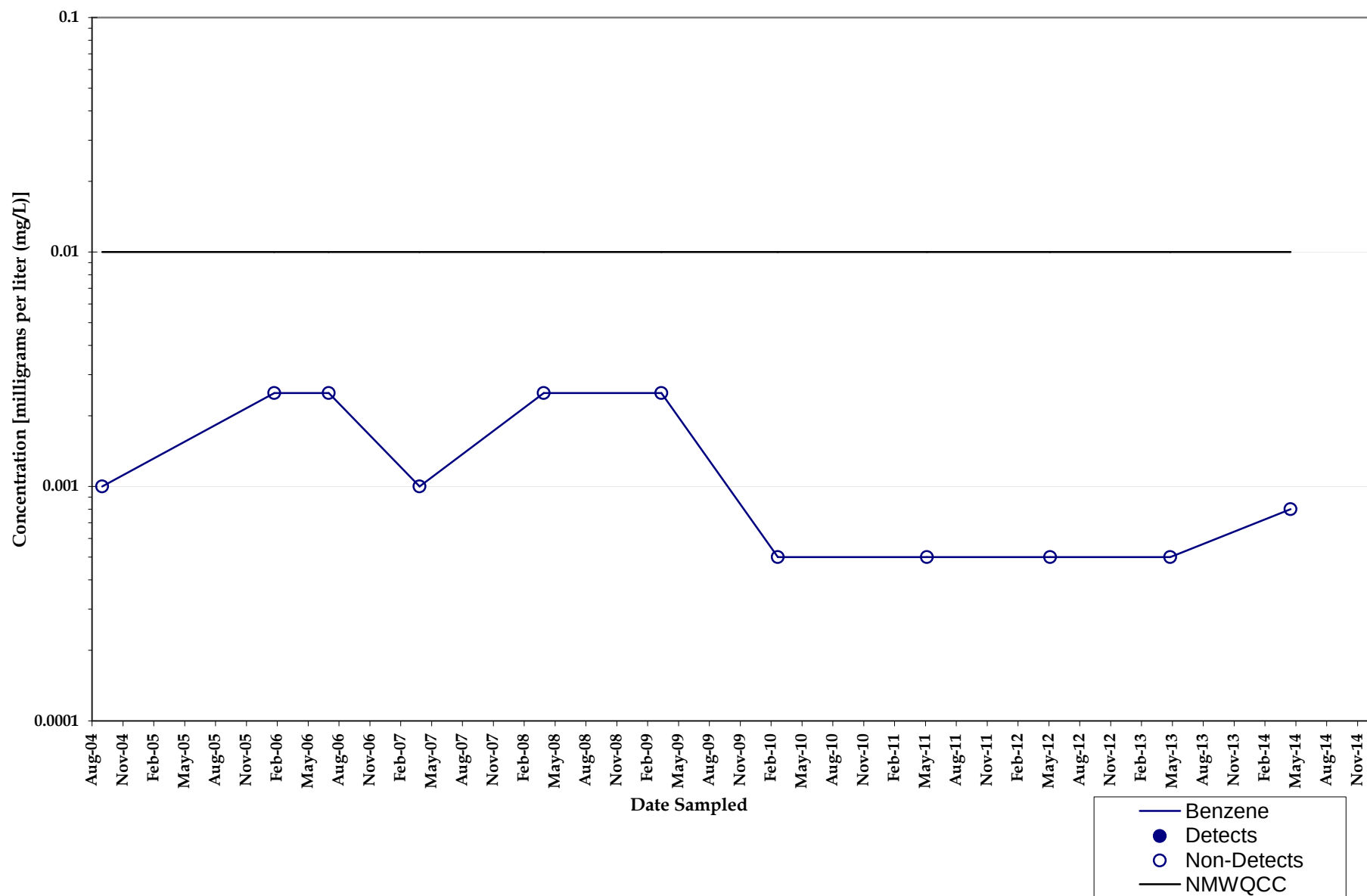


Benzene Concentrations Monitoring Well MW086SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

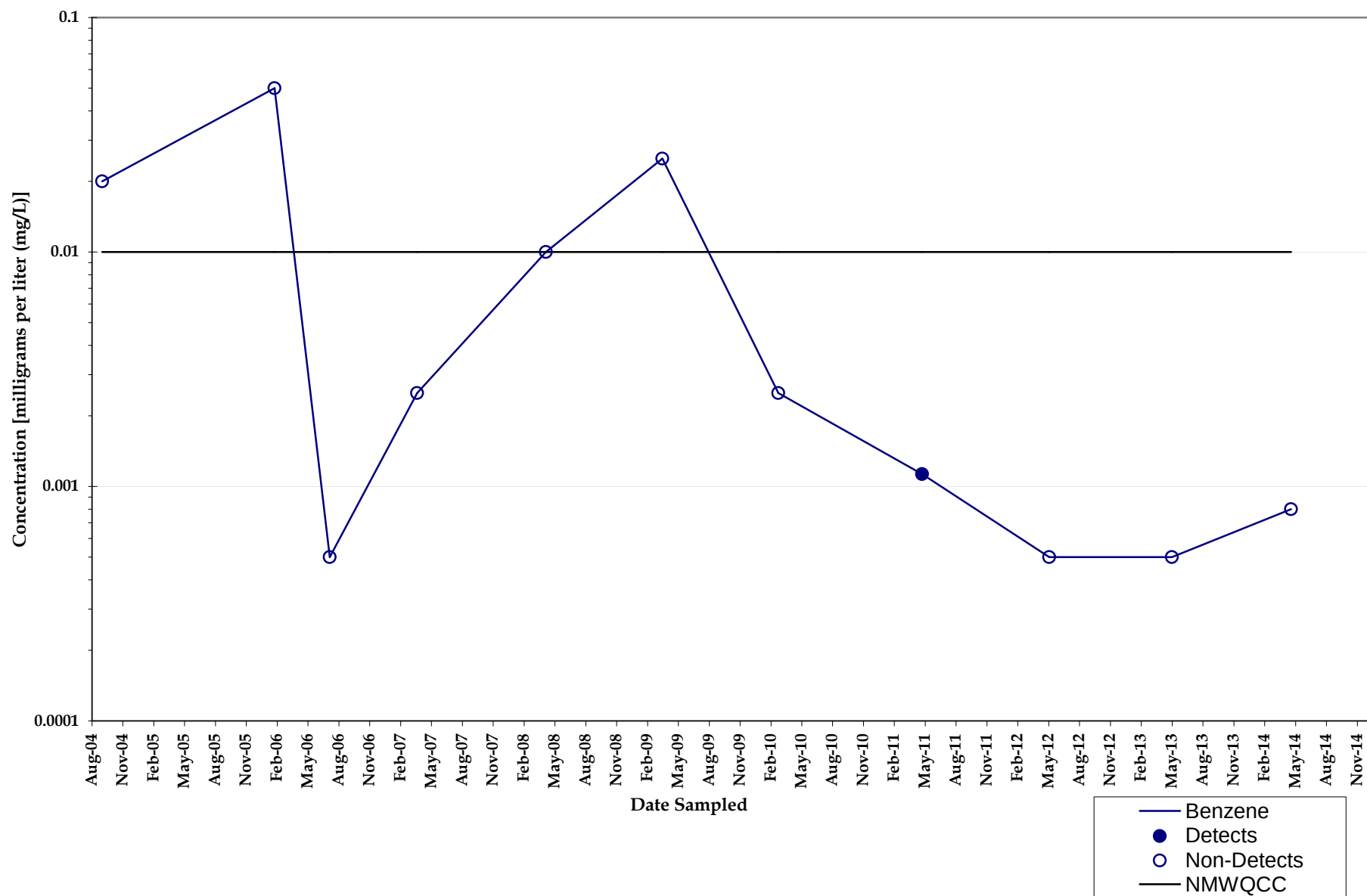


Benzene Concentrations Monitoring Well MW087A

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

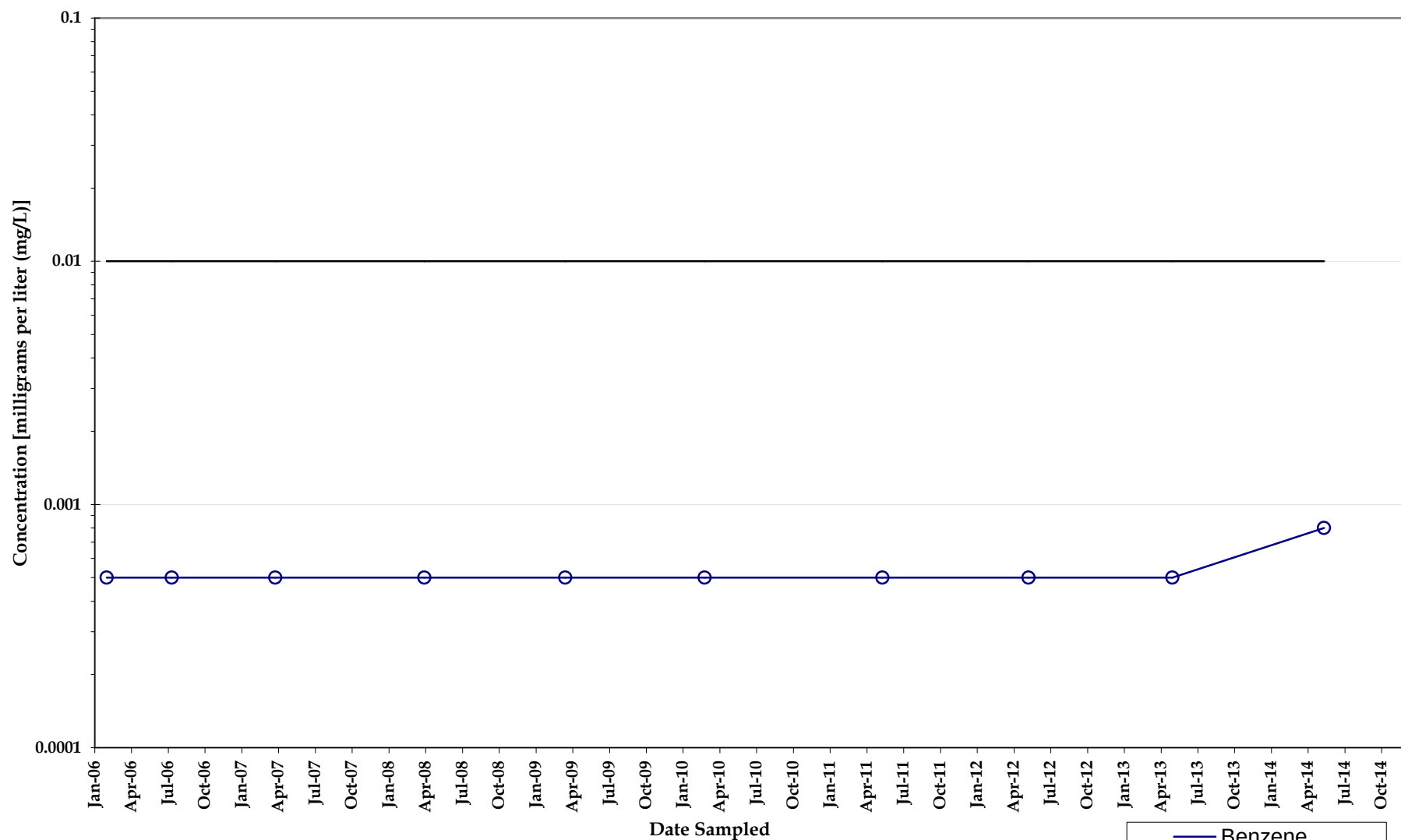


Benzene Concentrations Monitoring Well MW088M

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

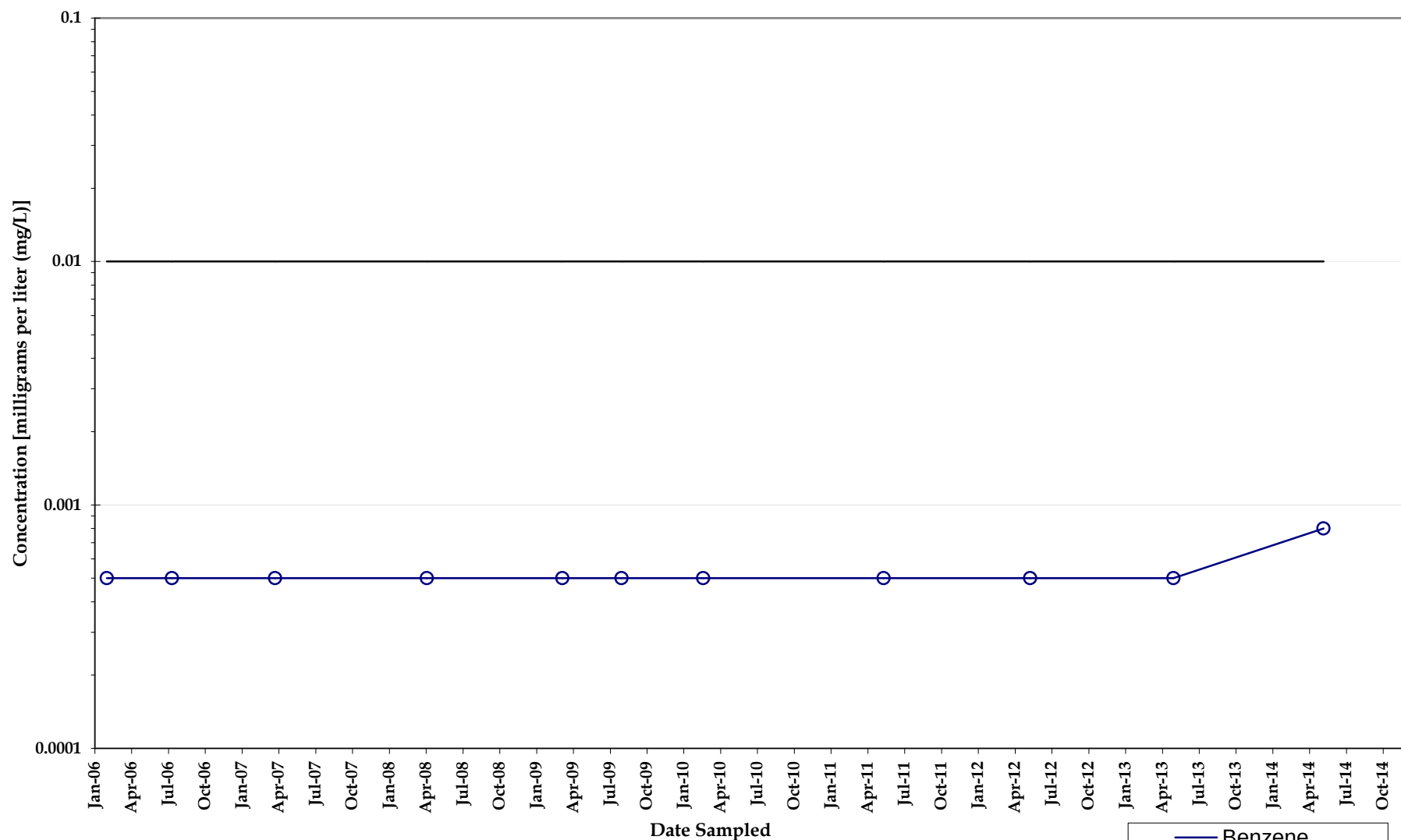


Benzene Concentrations Monitoring Well MW089SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

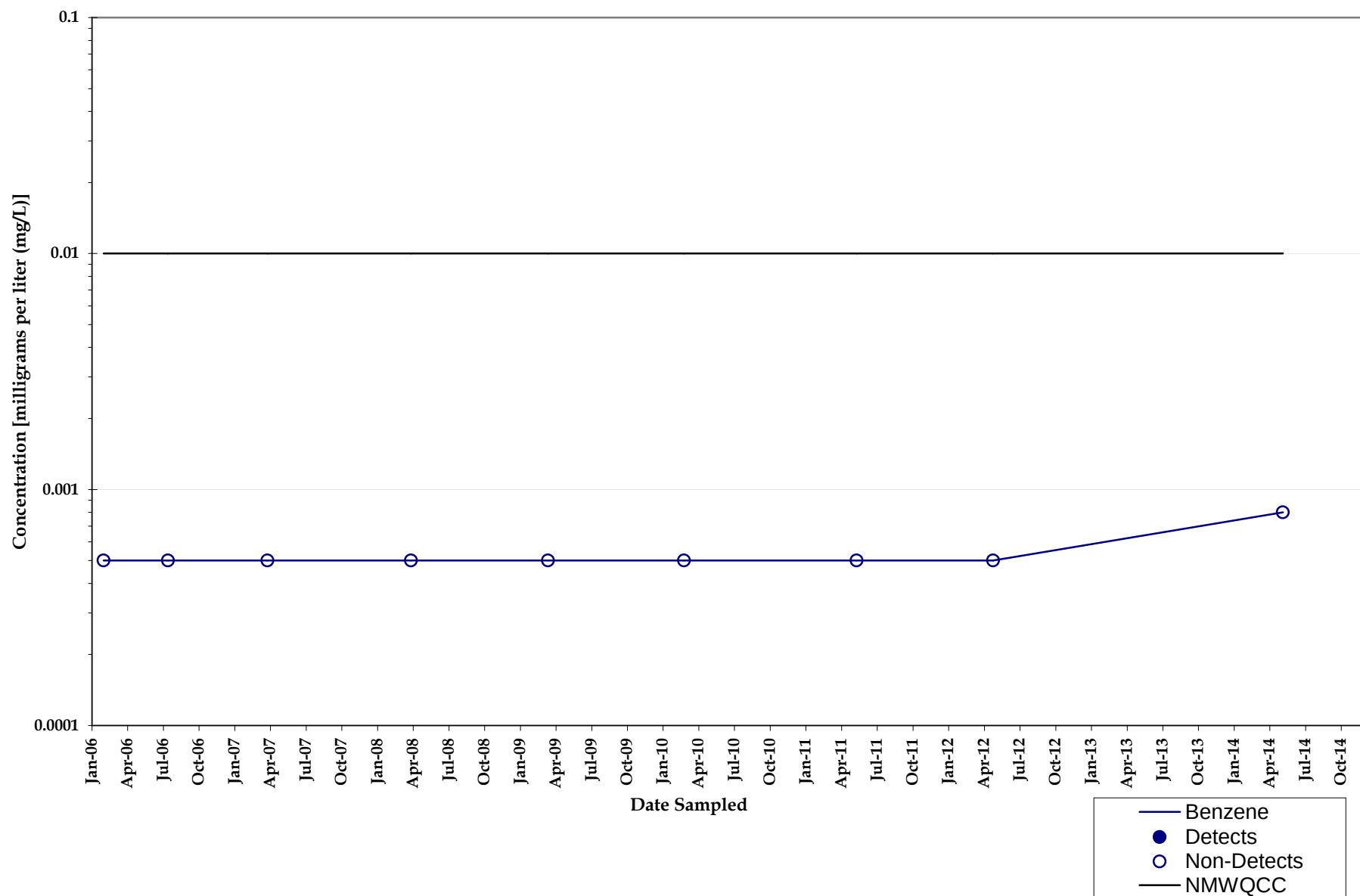


Benzene Concentrations Monitoring Well MW090SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

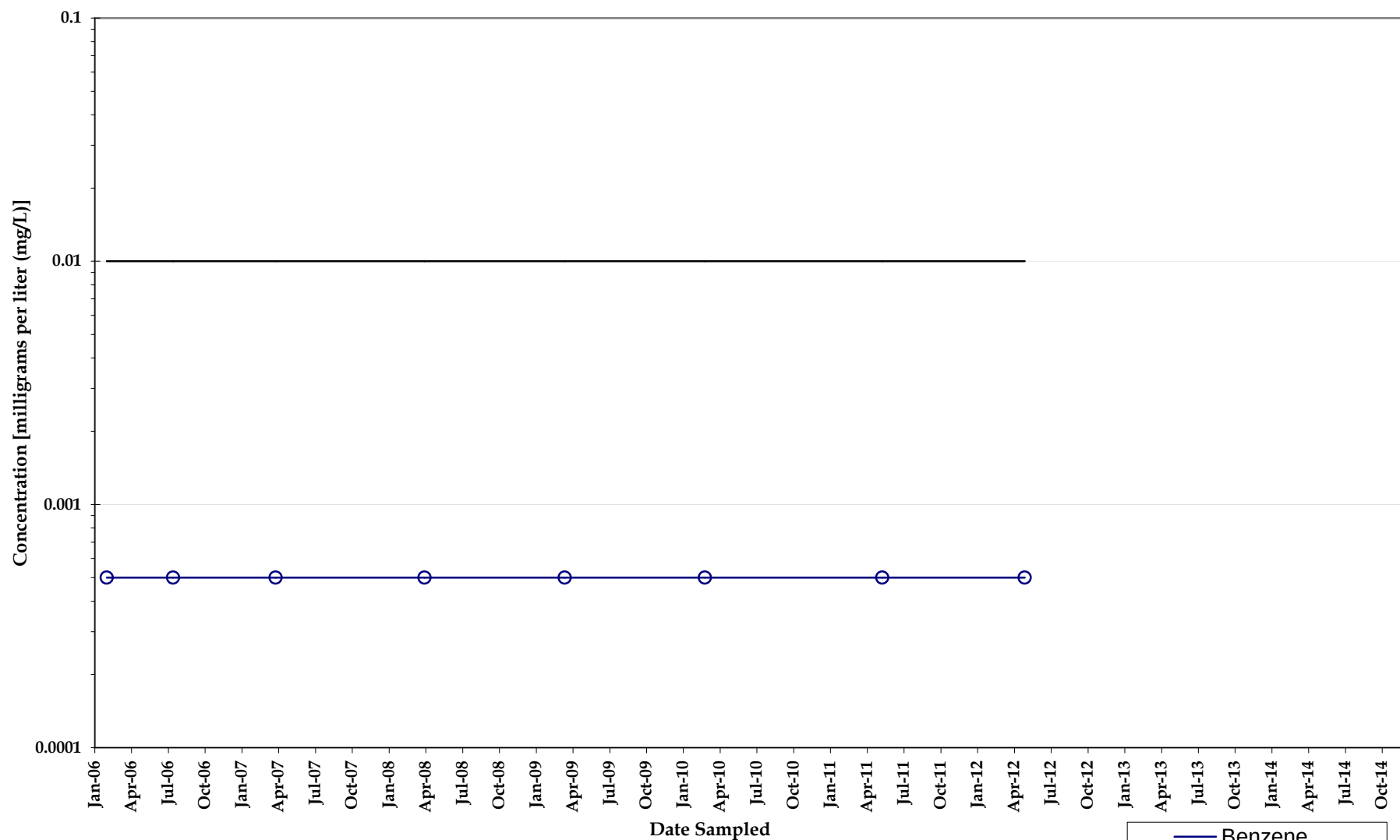


Benzene Concentrations Monitoring Well MW091SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

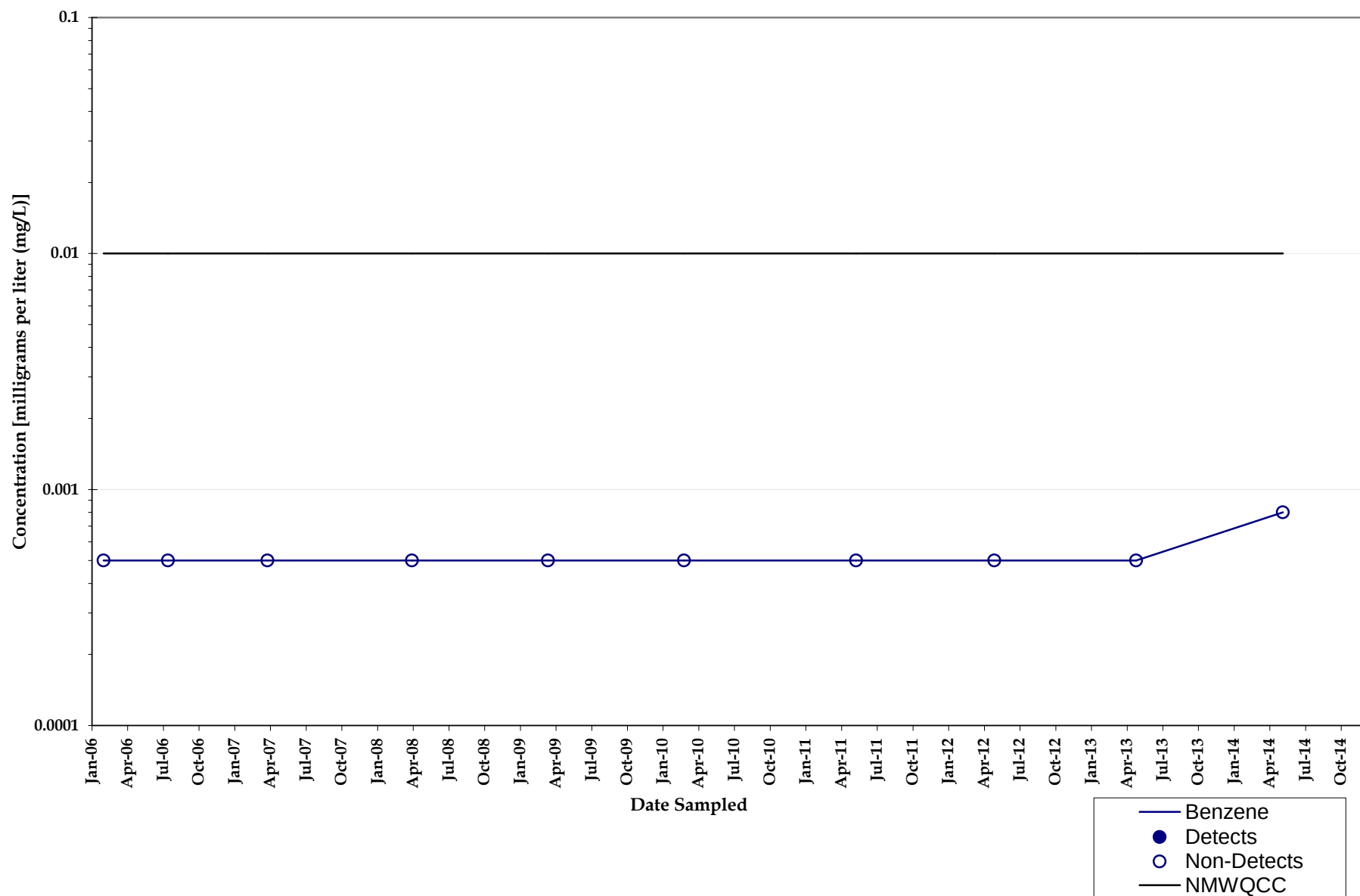


Benzene Concentrations Monitoring Well MW092SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

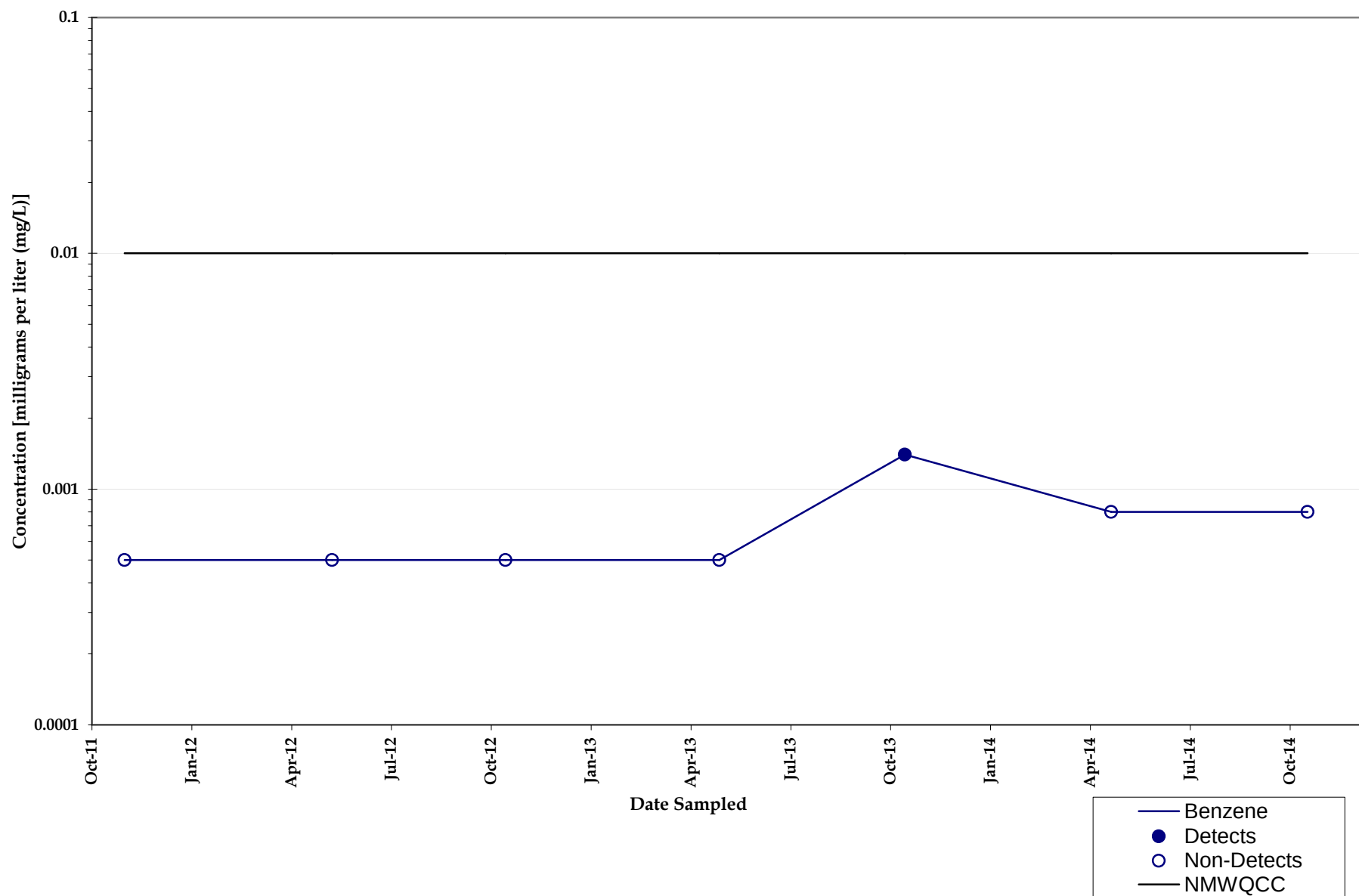


Benzene Concentrations Monitoring Well MW093SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

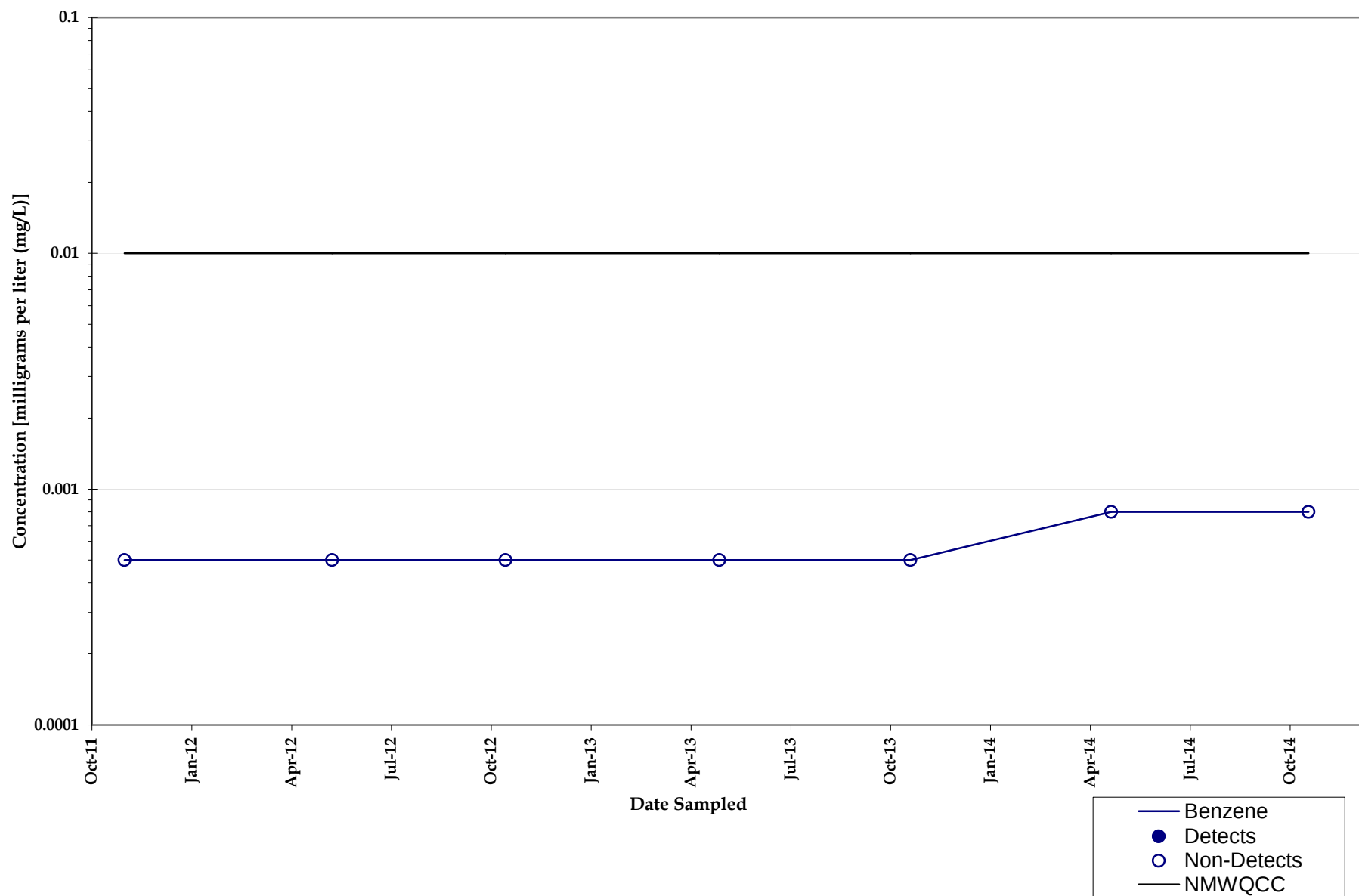


Benzene Concentrations Monitoring Well MW094

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by shaded symbol and detection values greater than the RL denoted by shaded symbol.

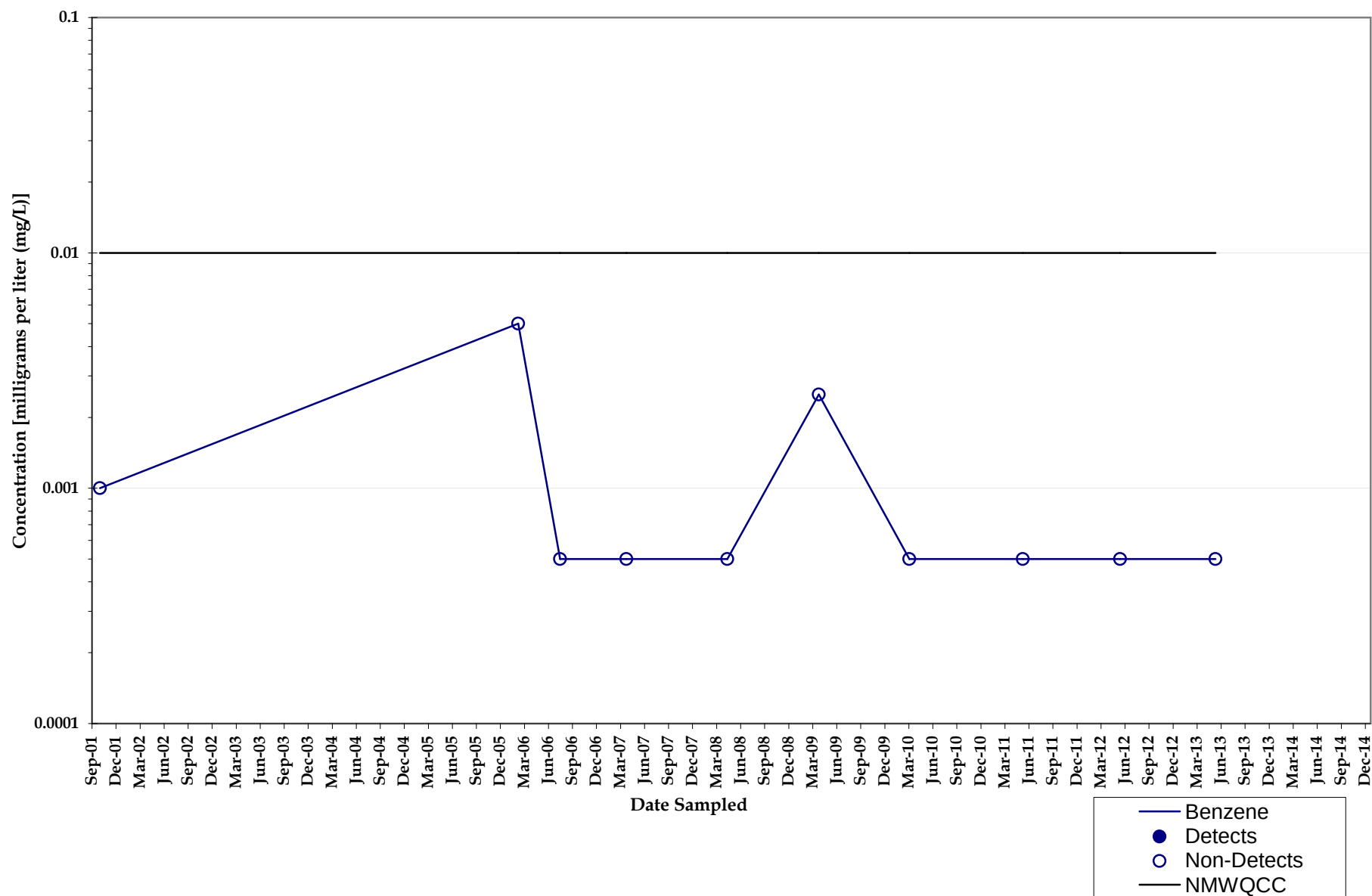


Benzene Concentrations Monitoring Well MW095

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

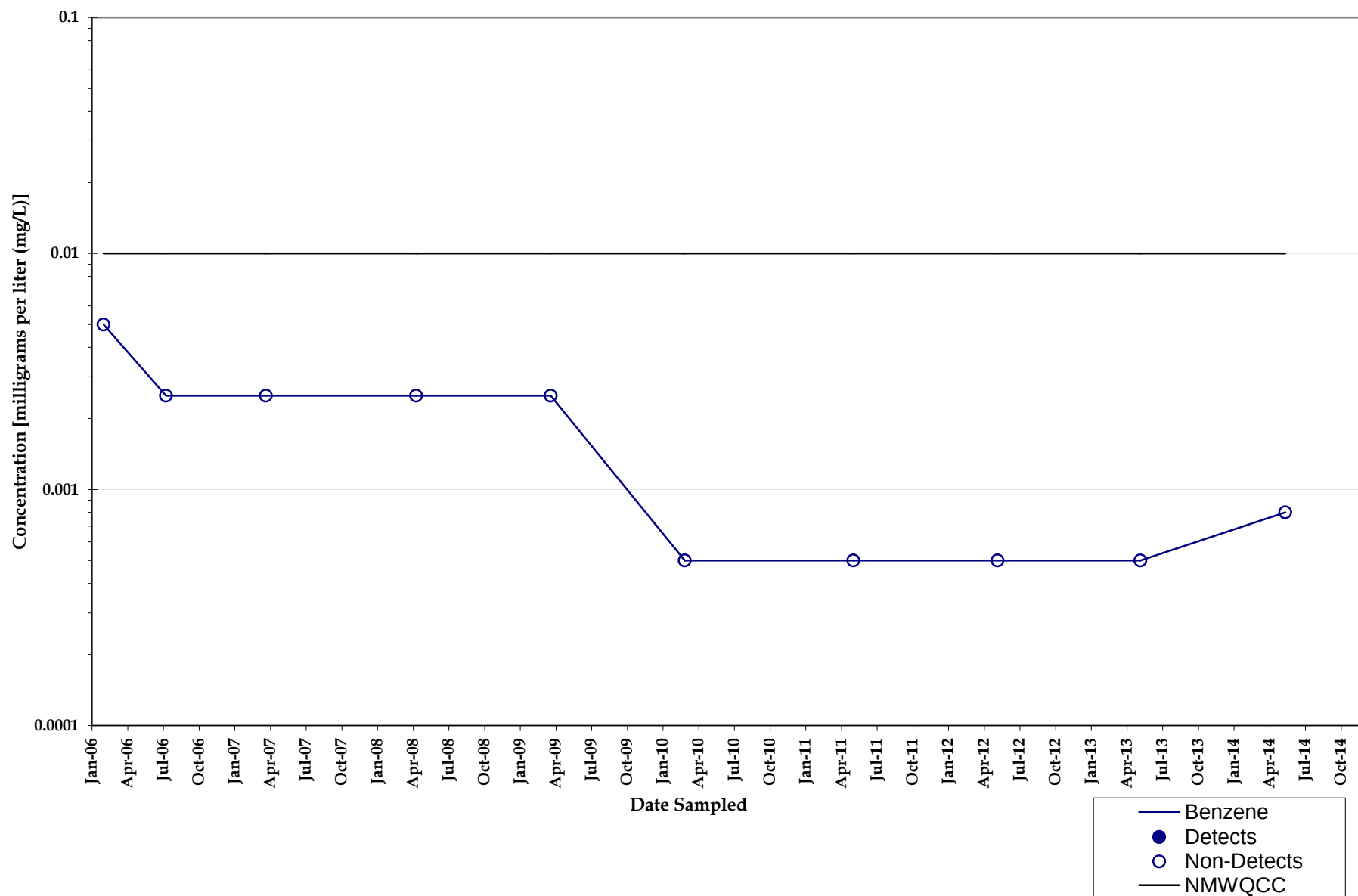


Benzene Concentrations Monitoring Well RW002

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

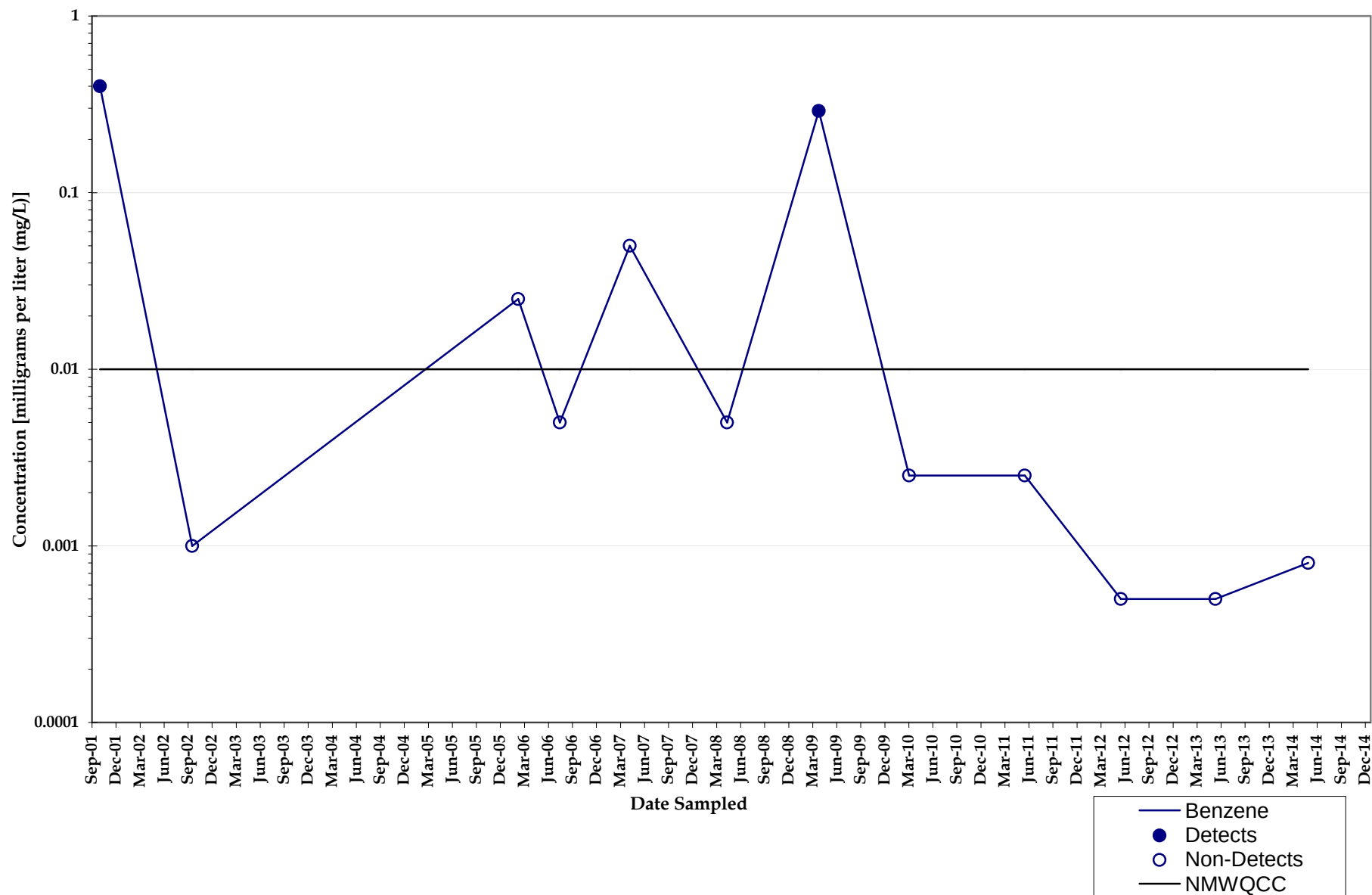


Benzene Concentrations Monitoring Well RW003

*North Eunice Gas Plant
Lea County, New Mexico*



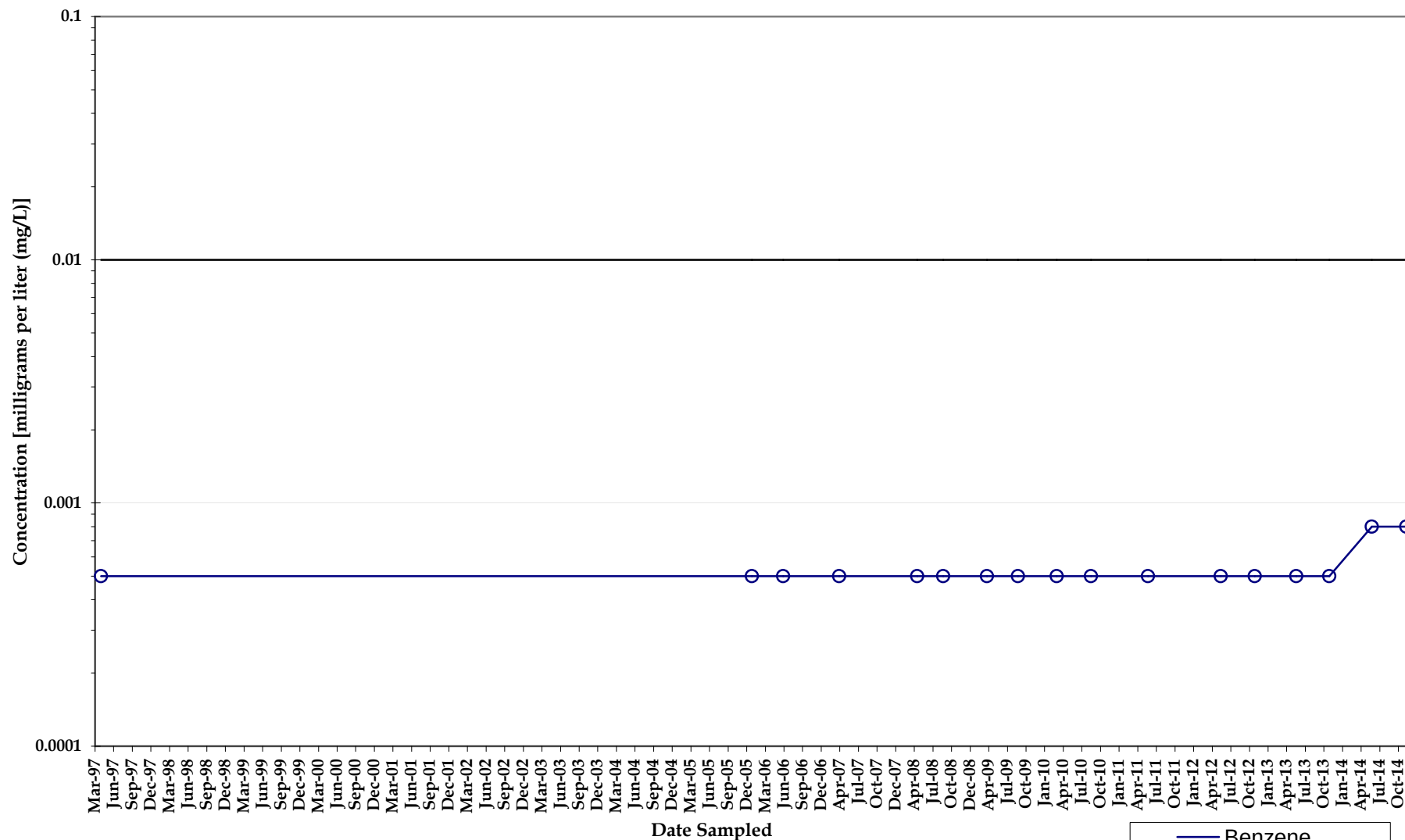
Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Benzene Concentrations Monitoring Well RW004A

*North Eunice Gas Plant
Lea County, New Mexico*

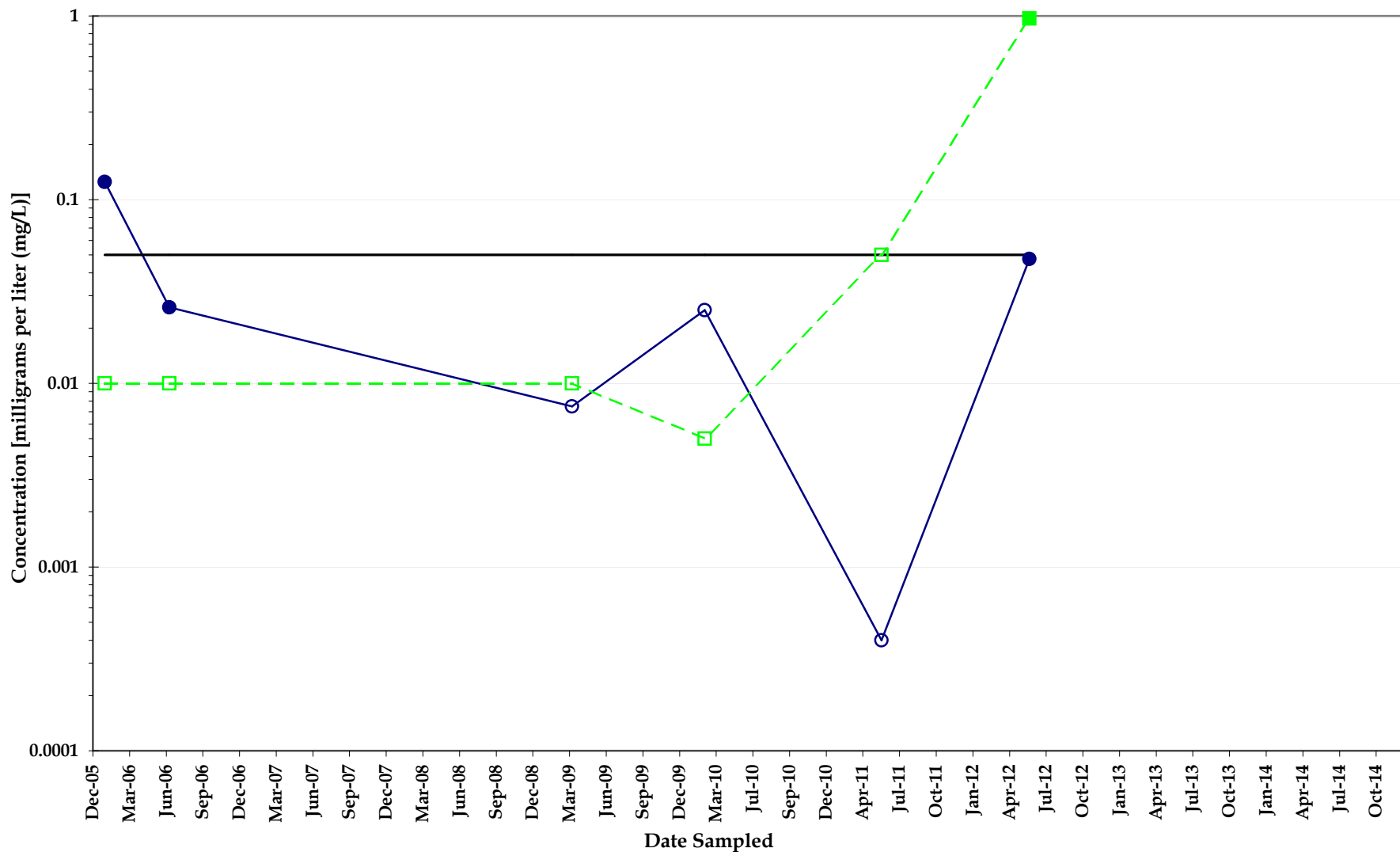


Benzene Concentrations Monitoring Well WOODELLWW

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

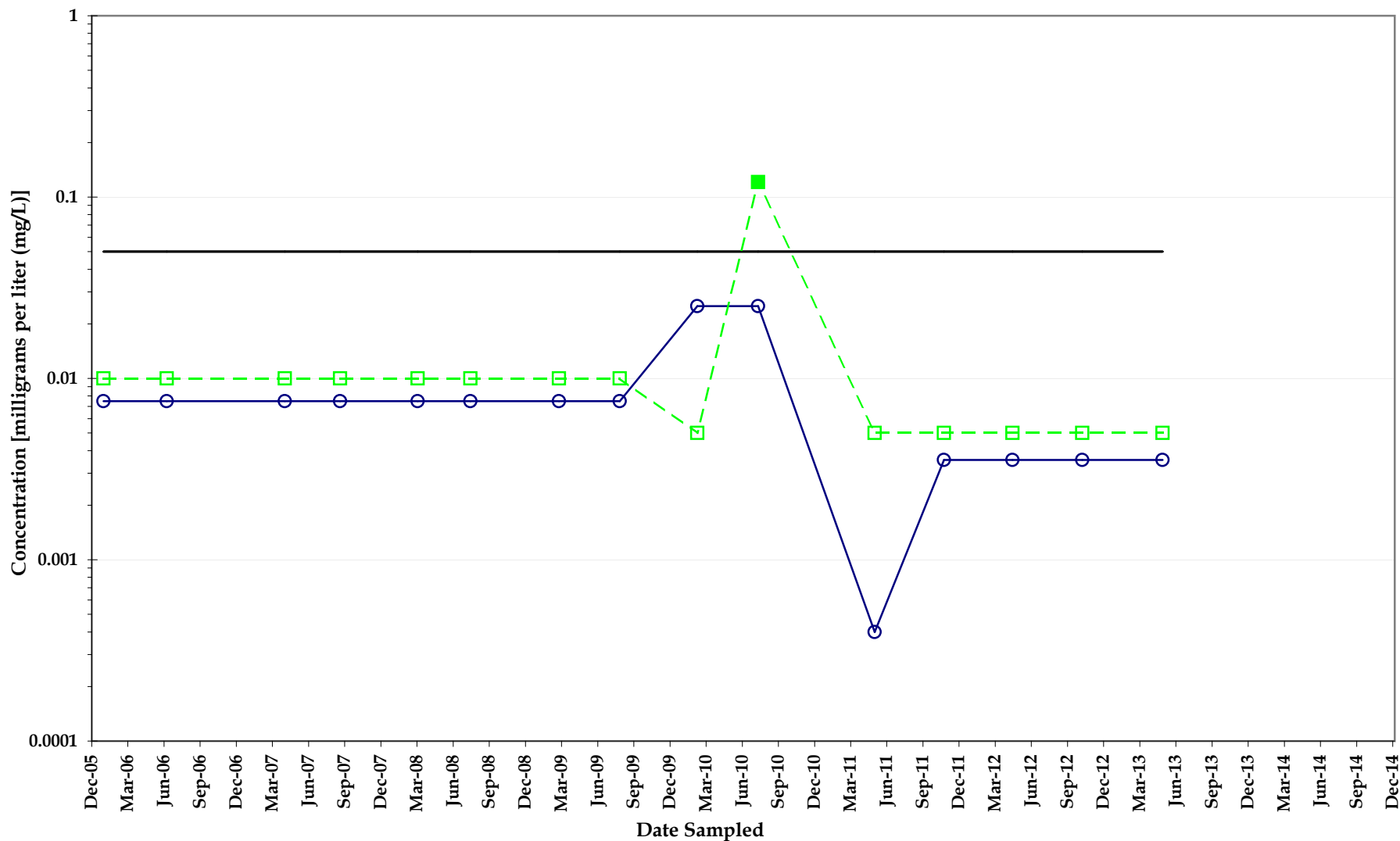


Chromium Concentrations Monitoring Well EPWW1

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

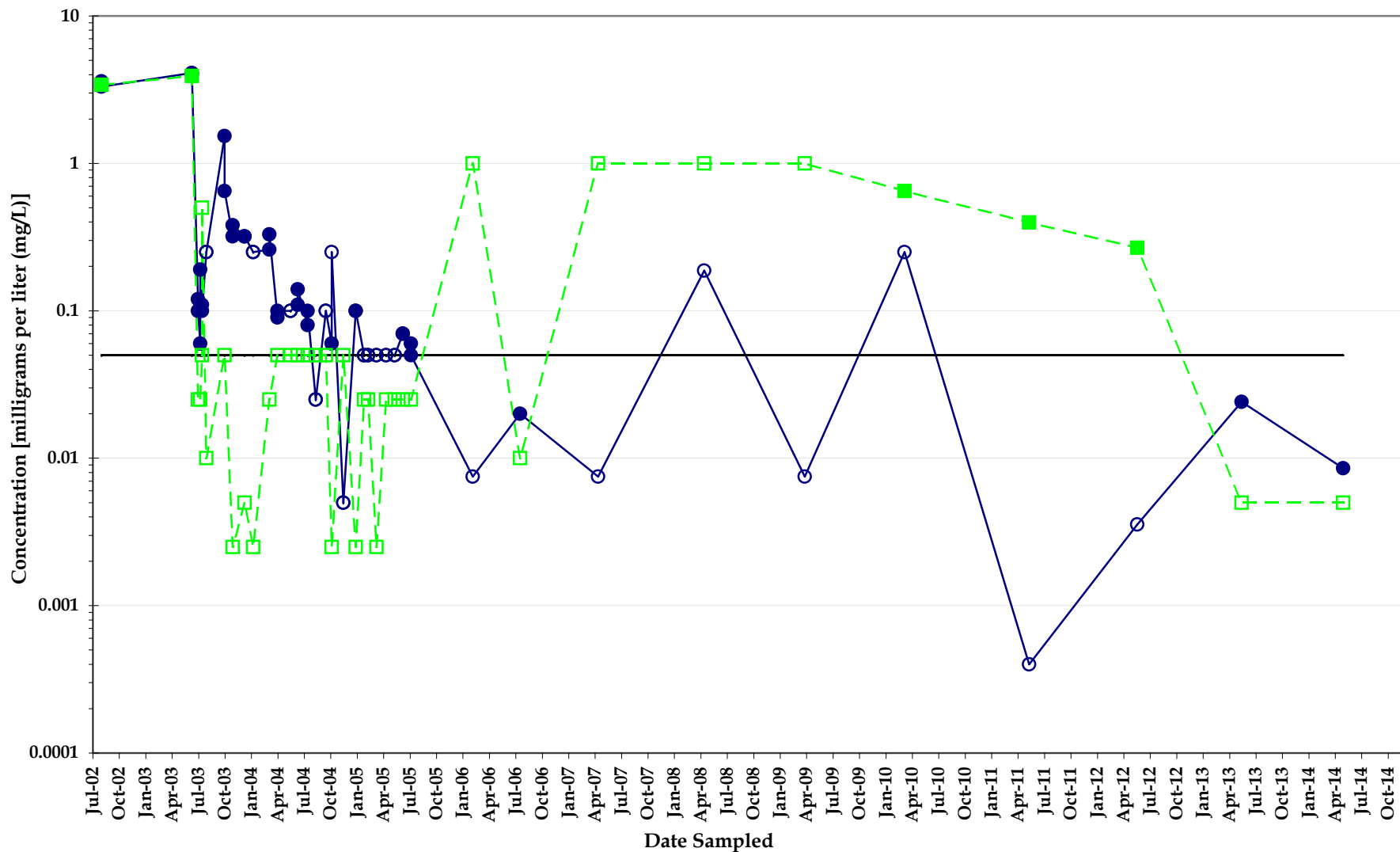


Chromium Concentrations Monitoring Well GOPWW2

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

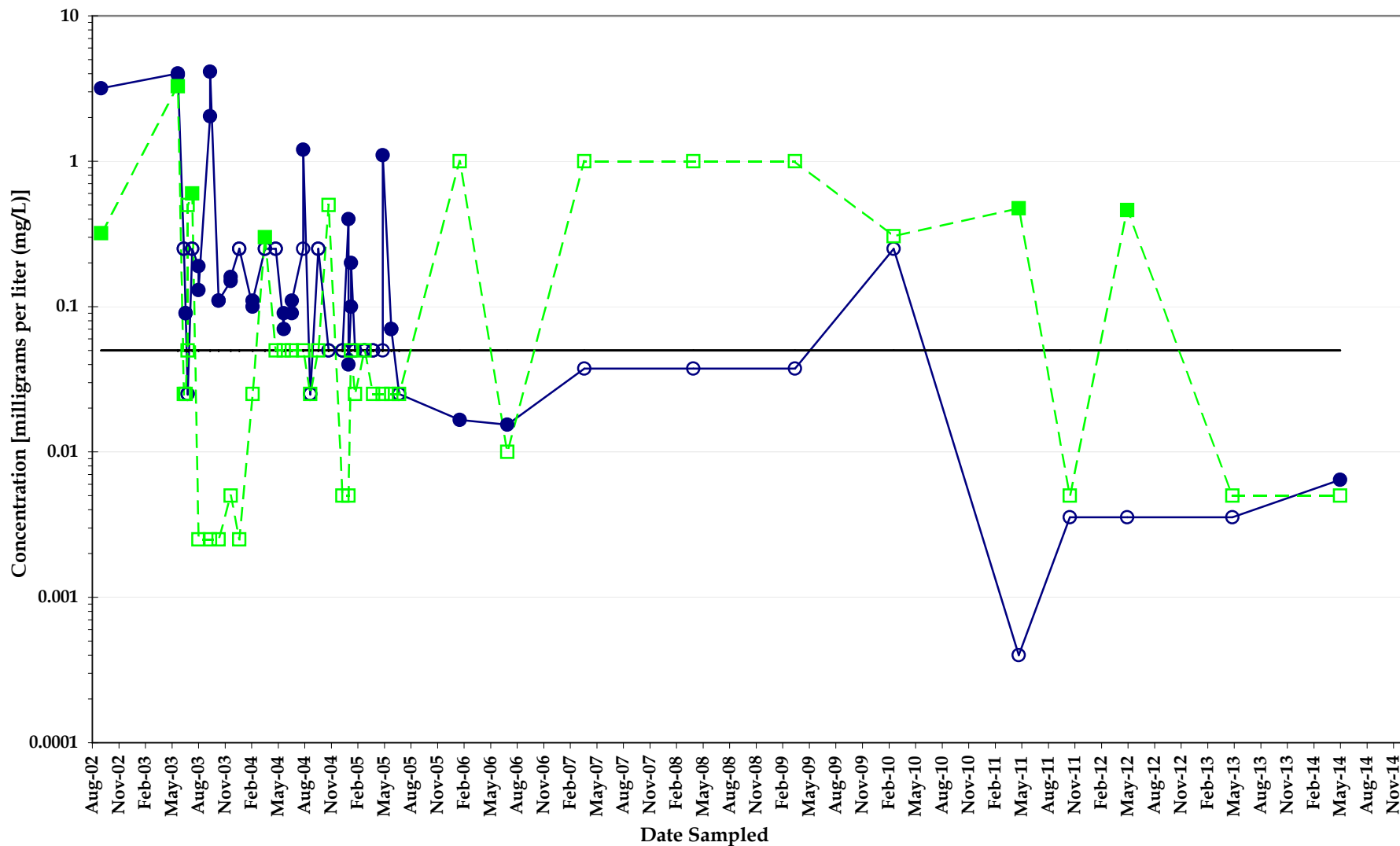


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well IW001

North Eunice Gas Plant
Lea County, New Mexico



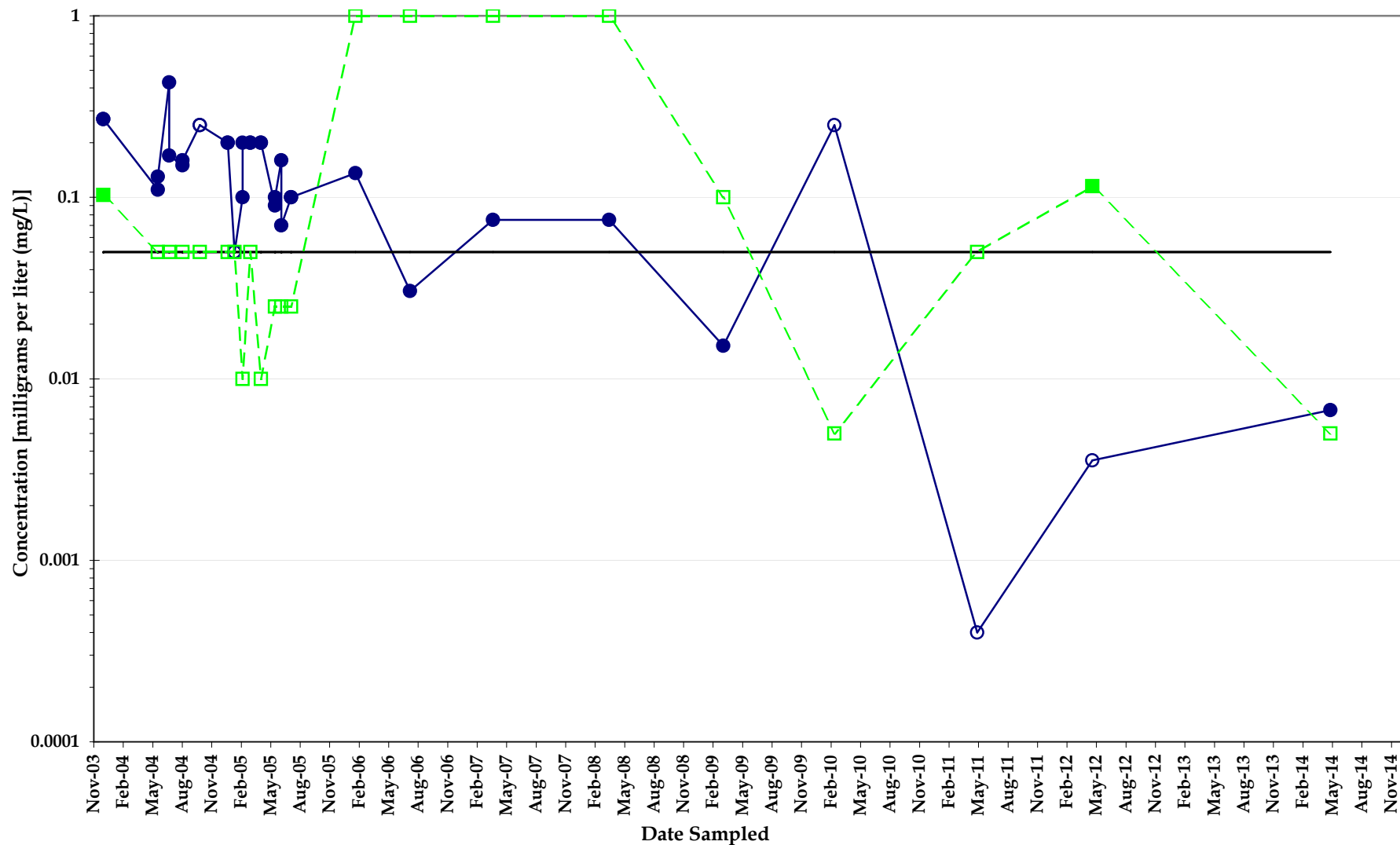


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well IW002

North Eunice Gas Plant
Lea County, New Mexico



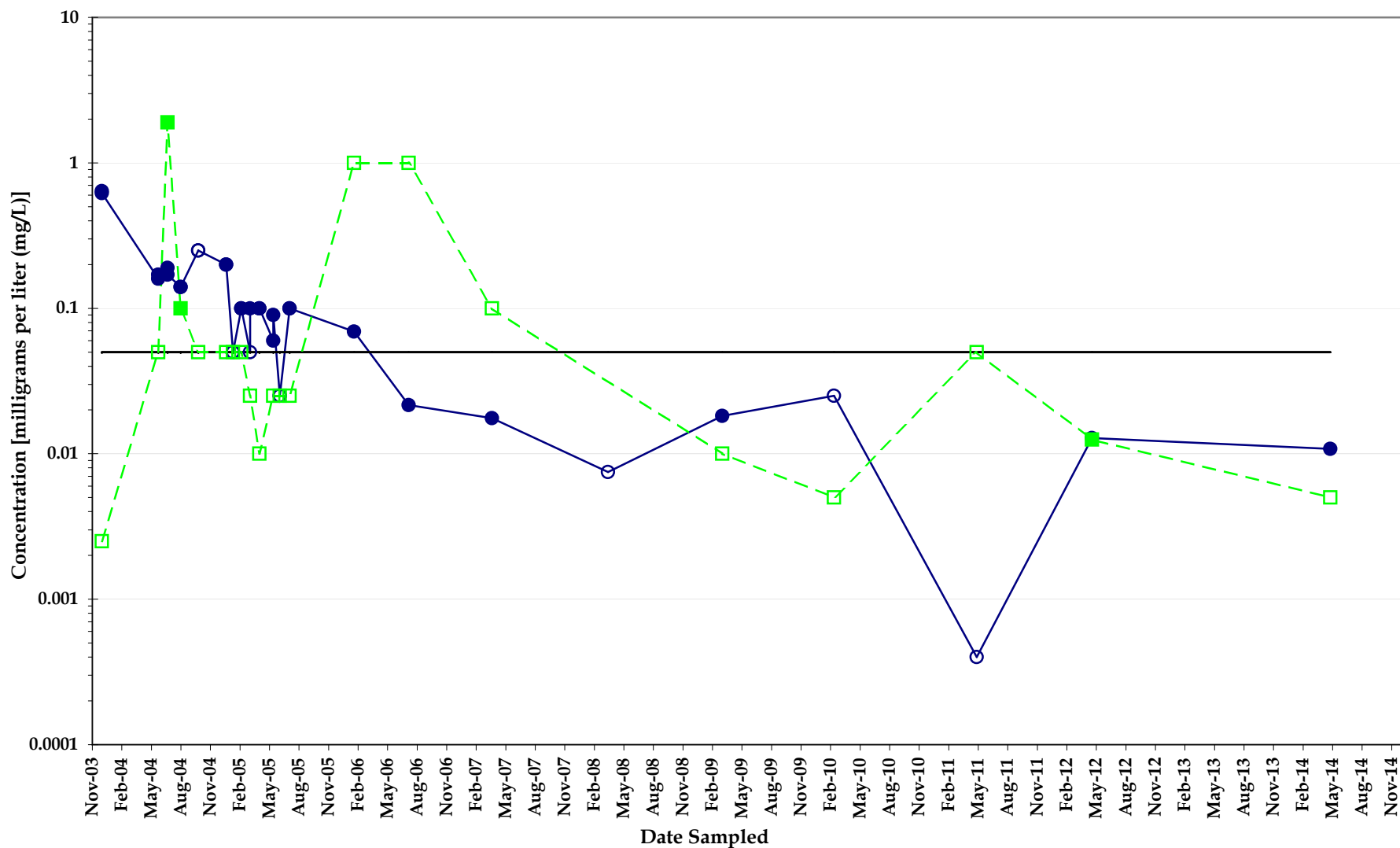


Chromium Concentrations Monitoring Well IW003

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

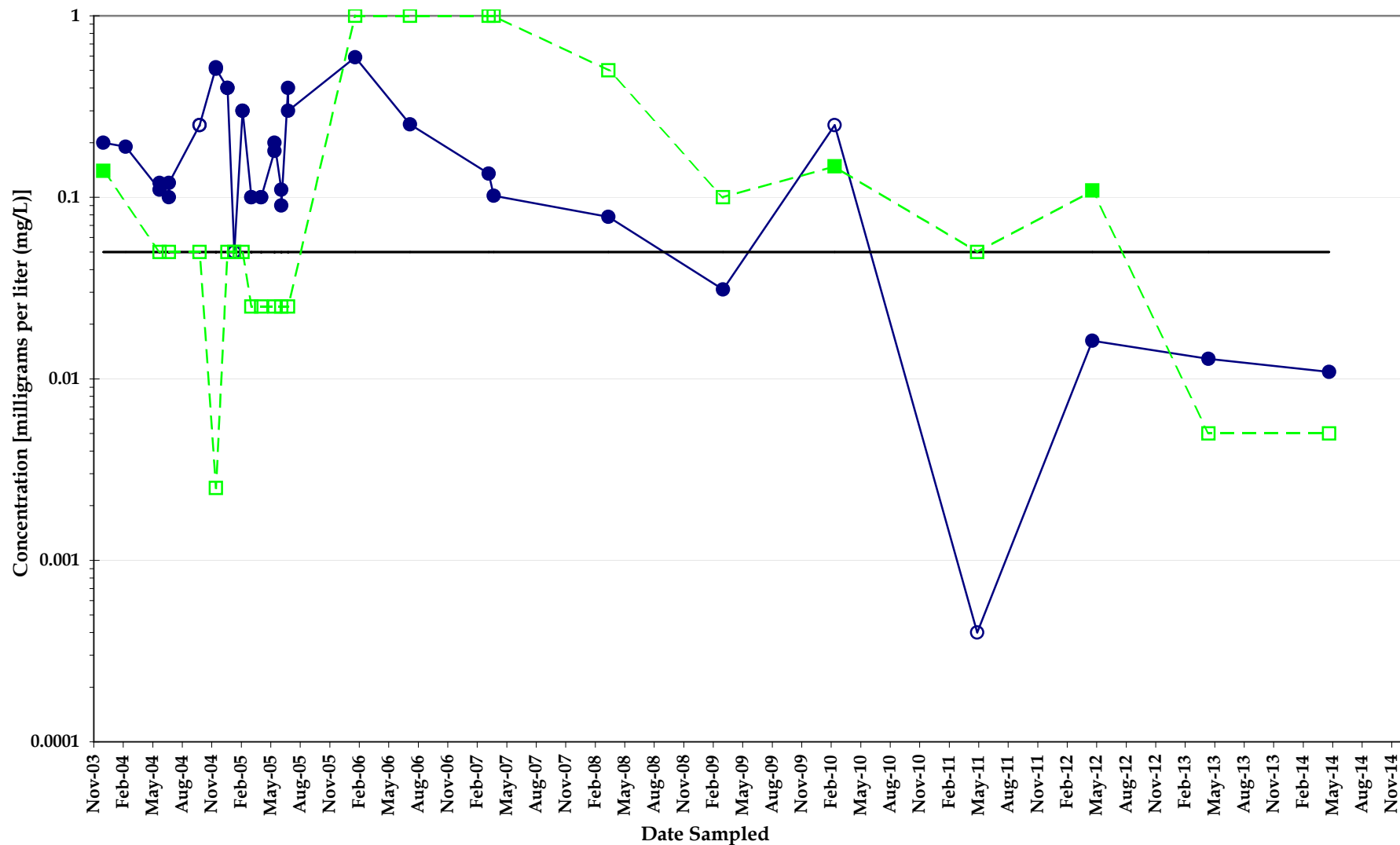


Chromium Concentrations Monitoring Well IW004

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

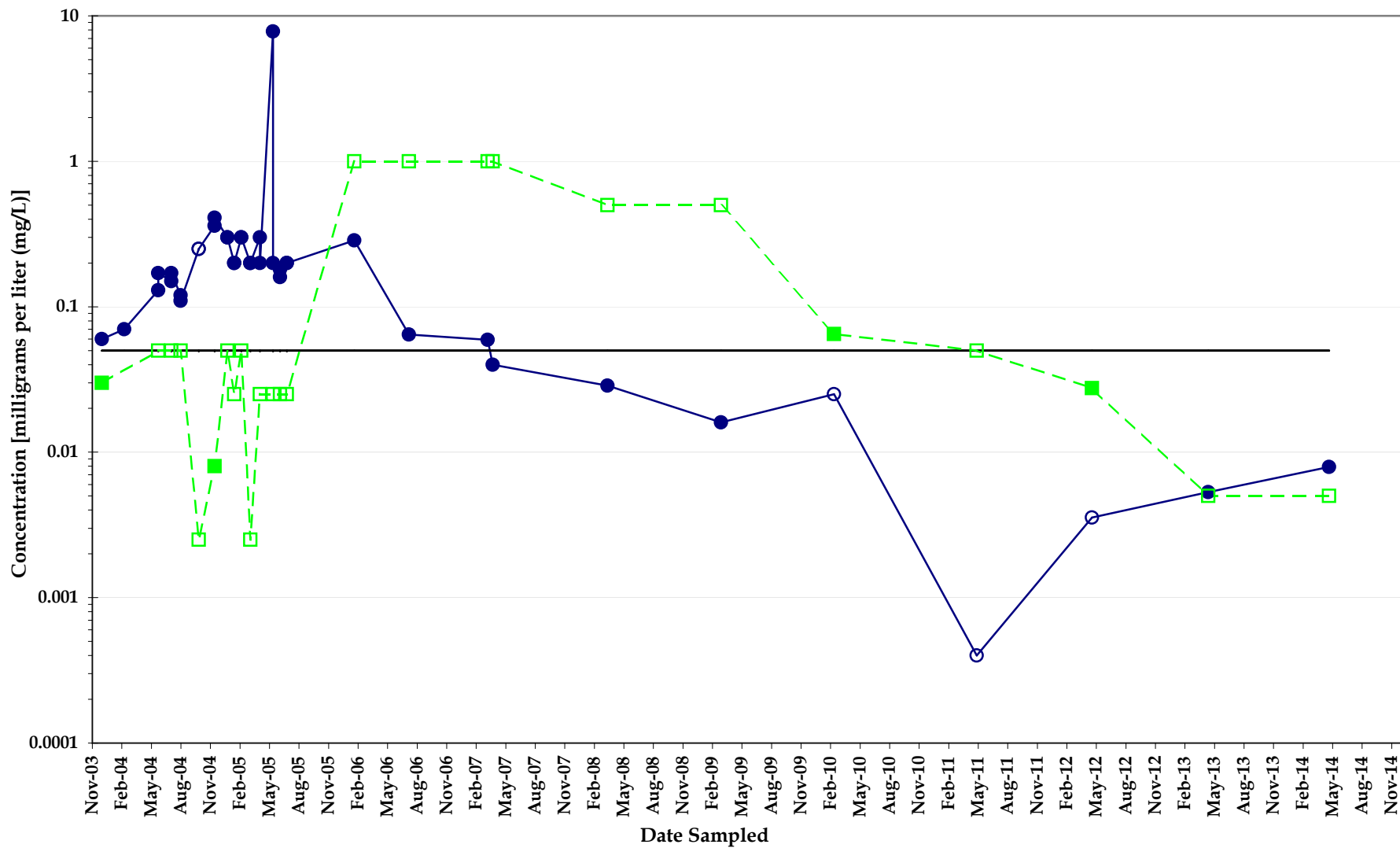


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well IW005

North Eunice Gas Plant
Lea County, New Mexico





Chromium (Solid Blue Line) Detects (Filled Symbol) Non-Detects (Open Symbol) NMWQCC (Horizontal Line)

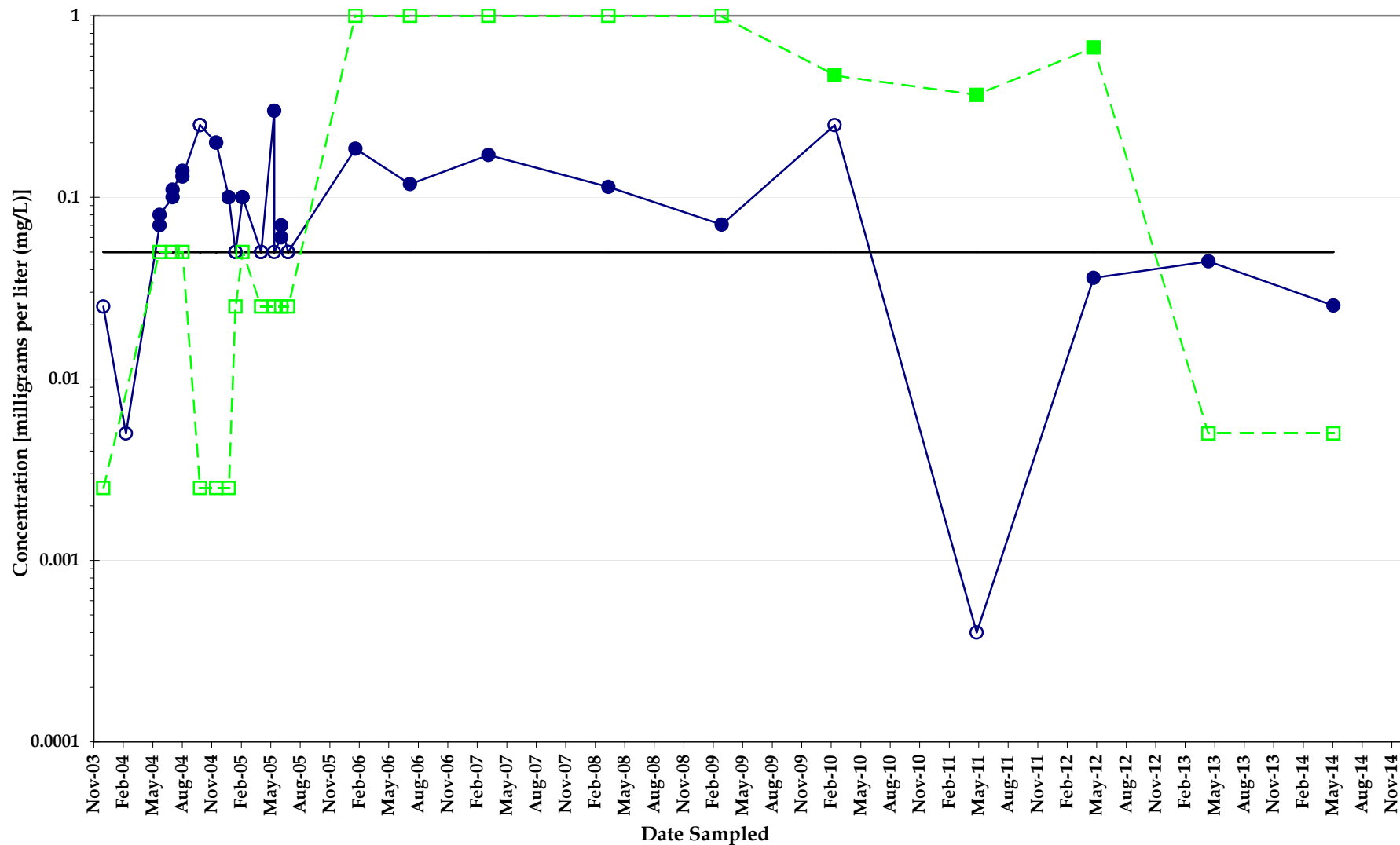
Hexavalent Chromium (Dashed Green Line) Detects (Filled Symbol) Non-Detects (Open Symbol)

Chromium Concentrations Monitoring Well IW006

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



Chromium (Solid Blue Line) Detected (Filled Symbol) Non-Detected (Open Symbol) NMWQCC (Horizontal Line at 0.05 mg/L)

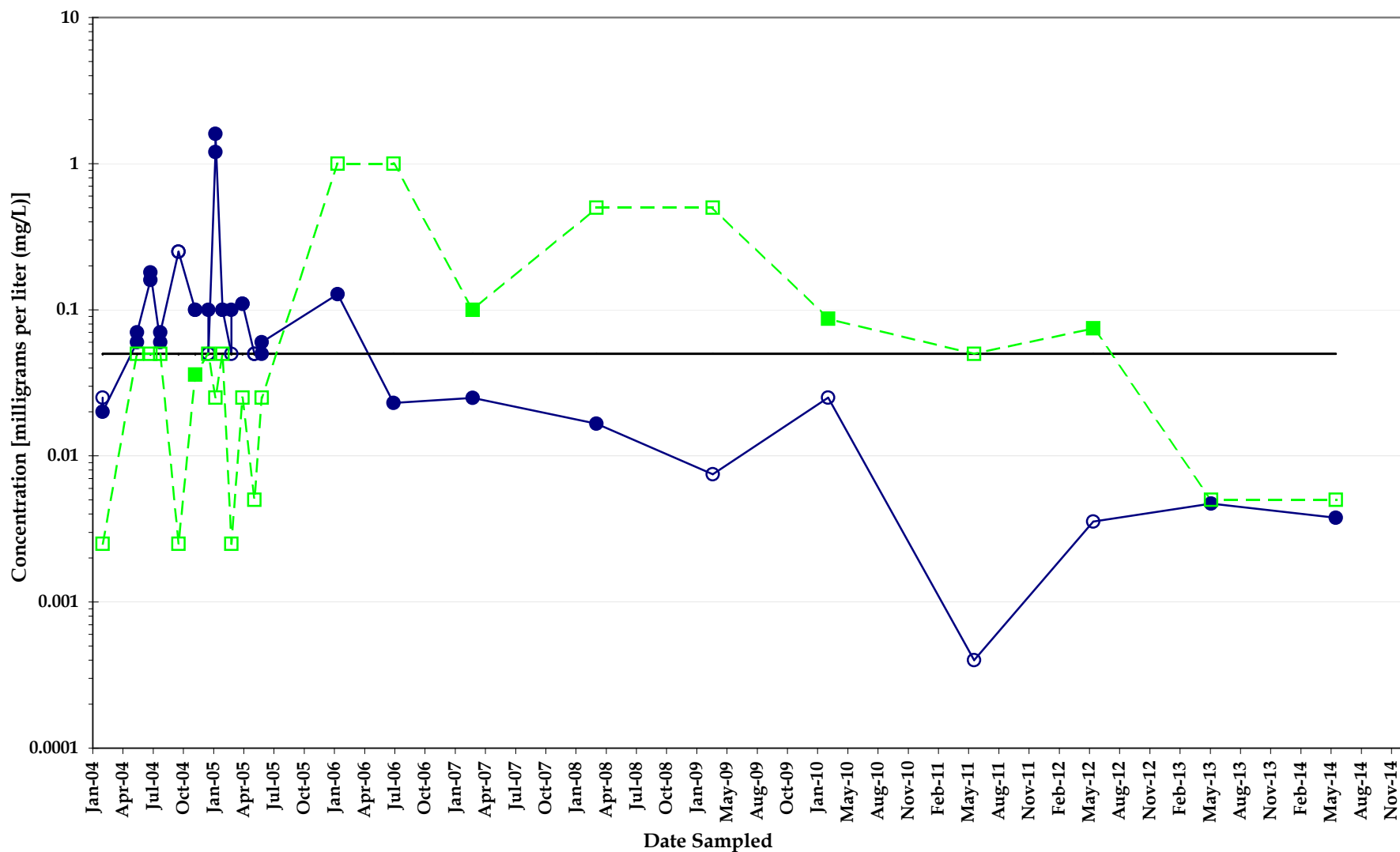
Hexavalent Chromium (Dashed Green Line) Detected (Filled Symbol) Non-Detected (Open Symbol)

Chromium Concentrations Monitoring Well IW007

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

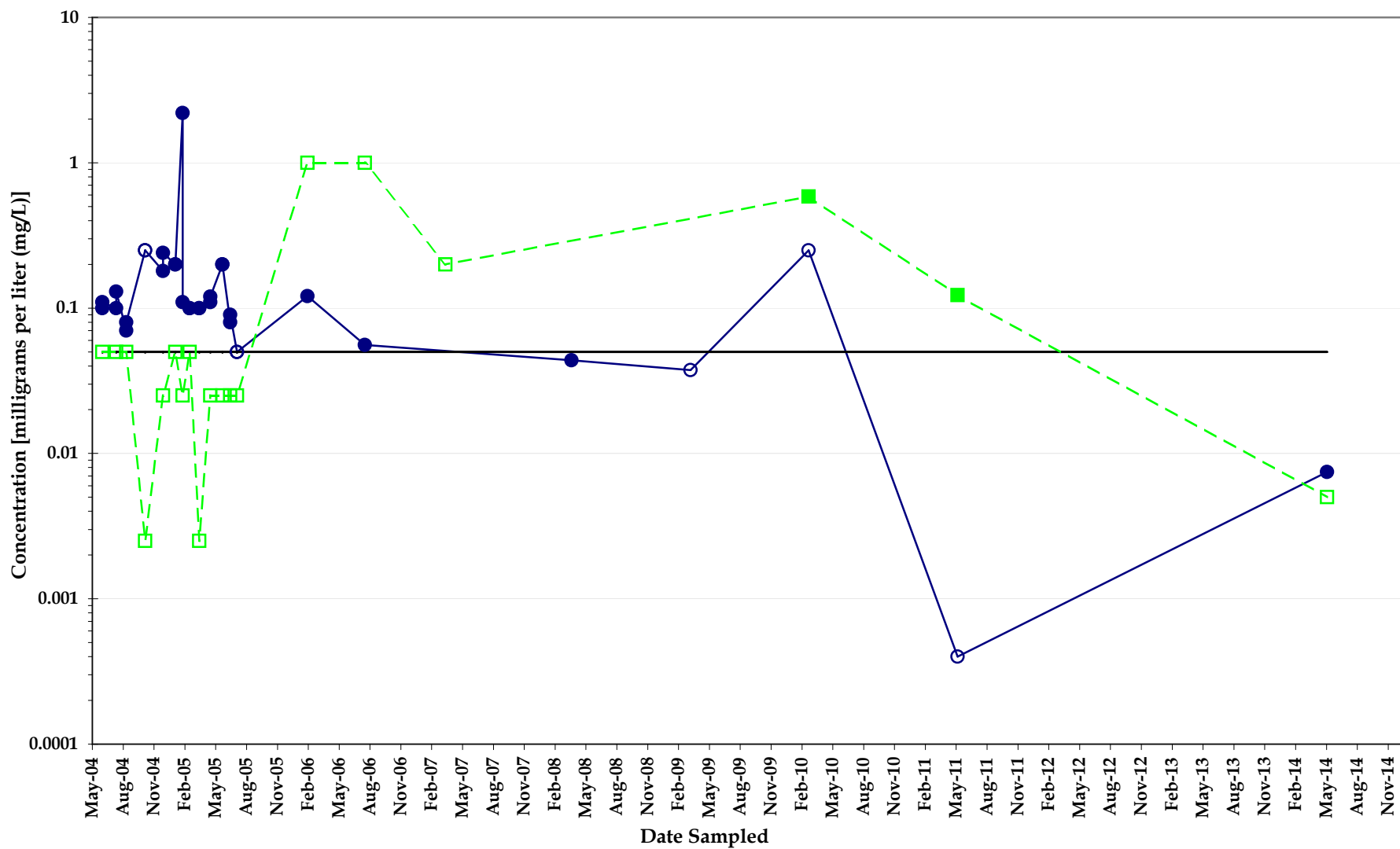


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well IW008

North Eunice Gas Plant
Lea County, New Mexico



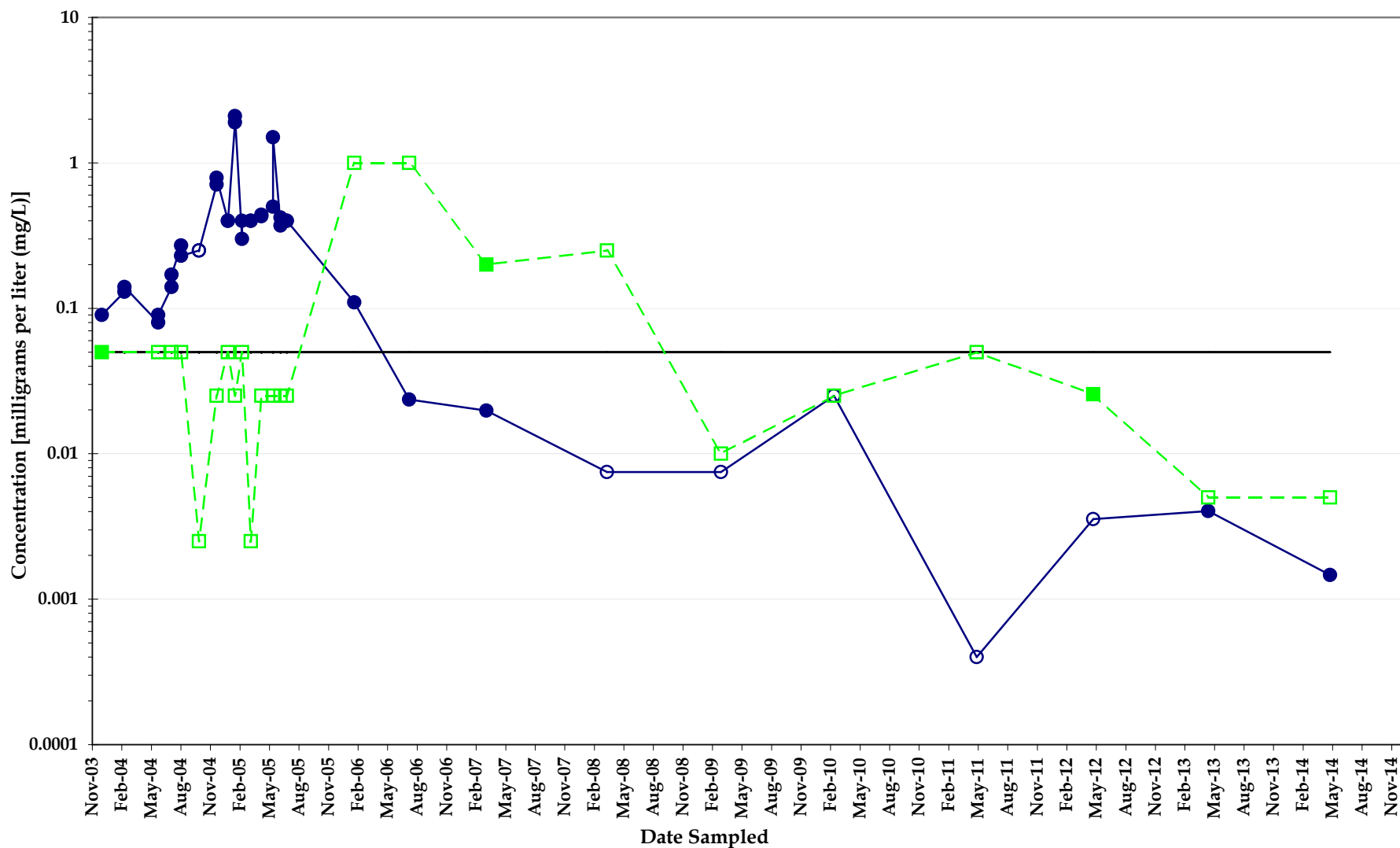


Chromium Concentrations Monitoring Well IW009

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

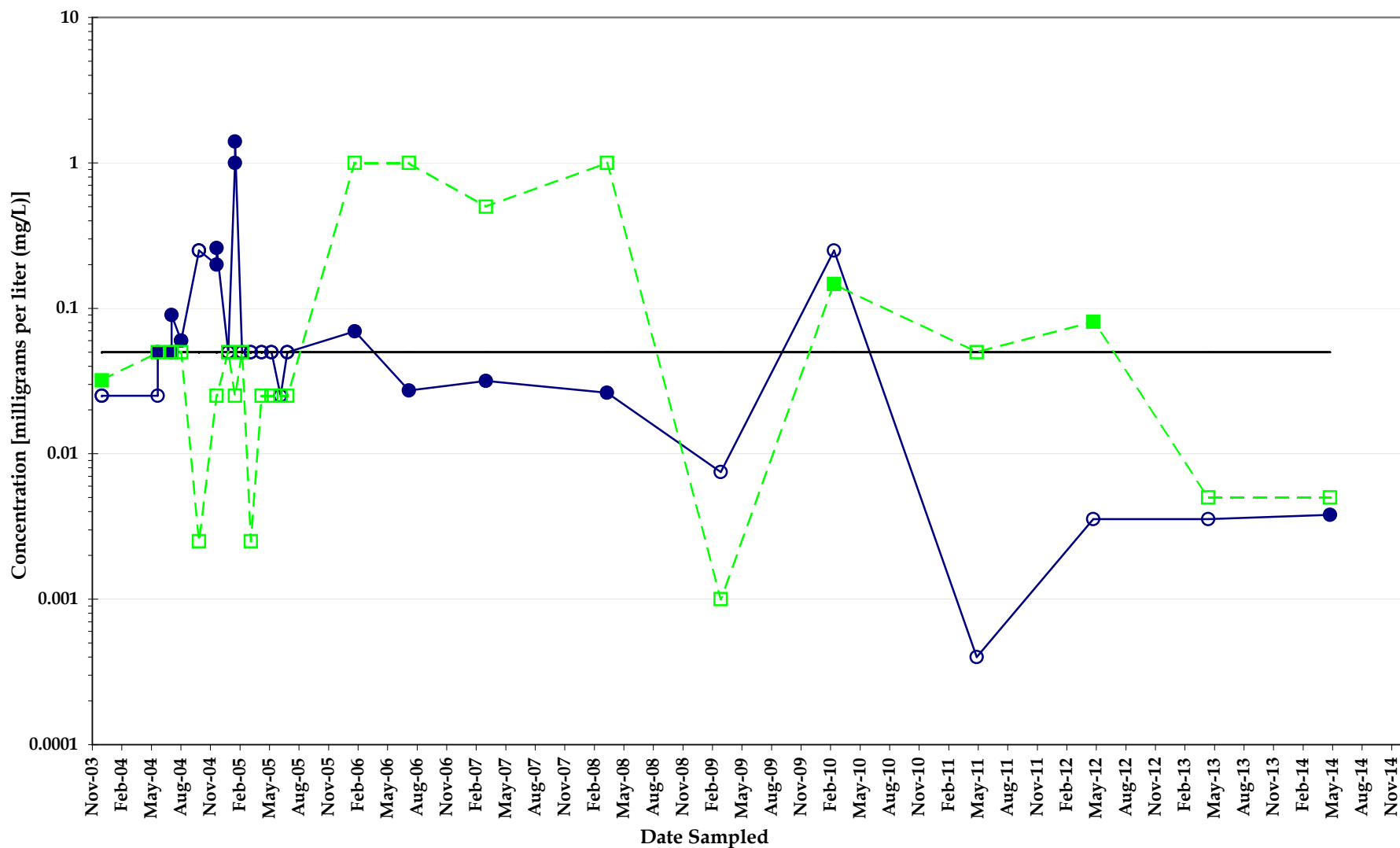


Chromium Concentrations Monitoring Well IW010

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



Chromium (Solid Blue Line) Detects (Shaded Symbols) Non-Detects (Open Symbols) NMWQCC (Horizontal Line at 0.05 mg/L)

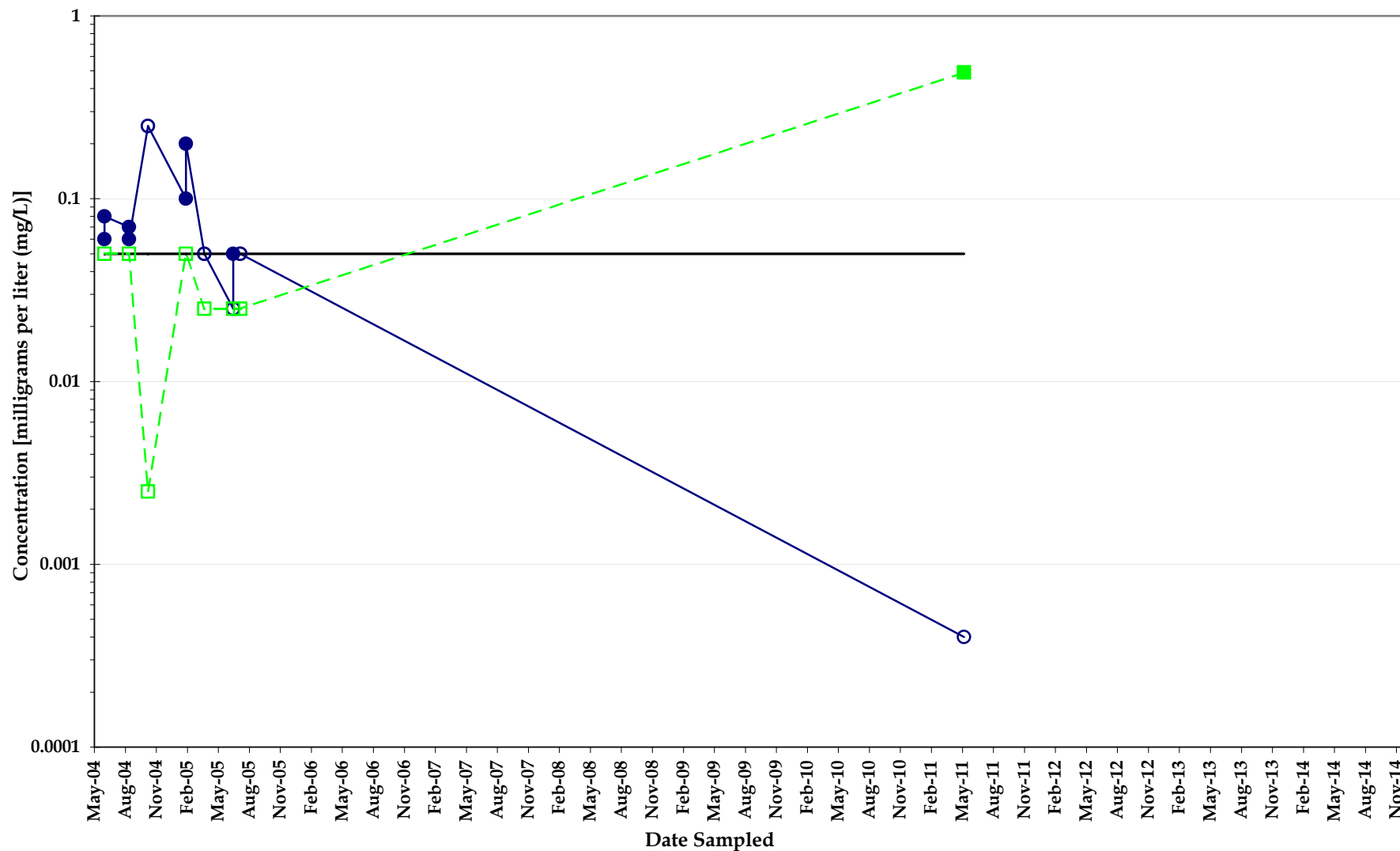
Hexavalent Chromium (Dashed Green Line) Detects (Shaded Symbols) Non-Detects (Open Symbols)

Chromium Concentrations Monitoring Well IW011

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

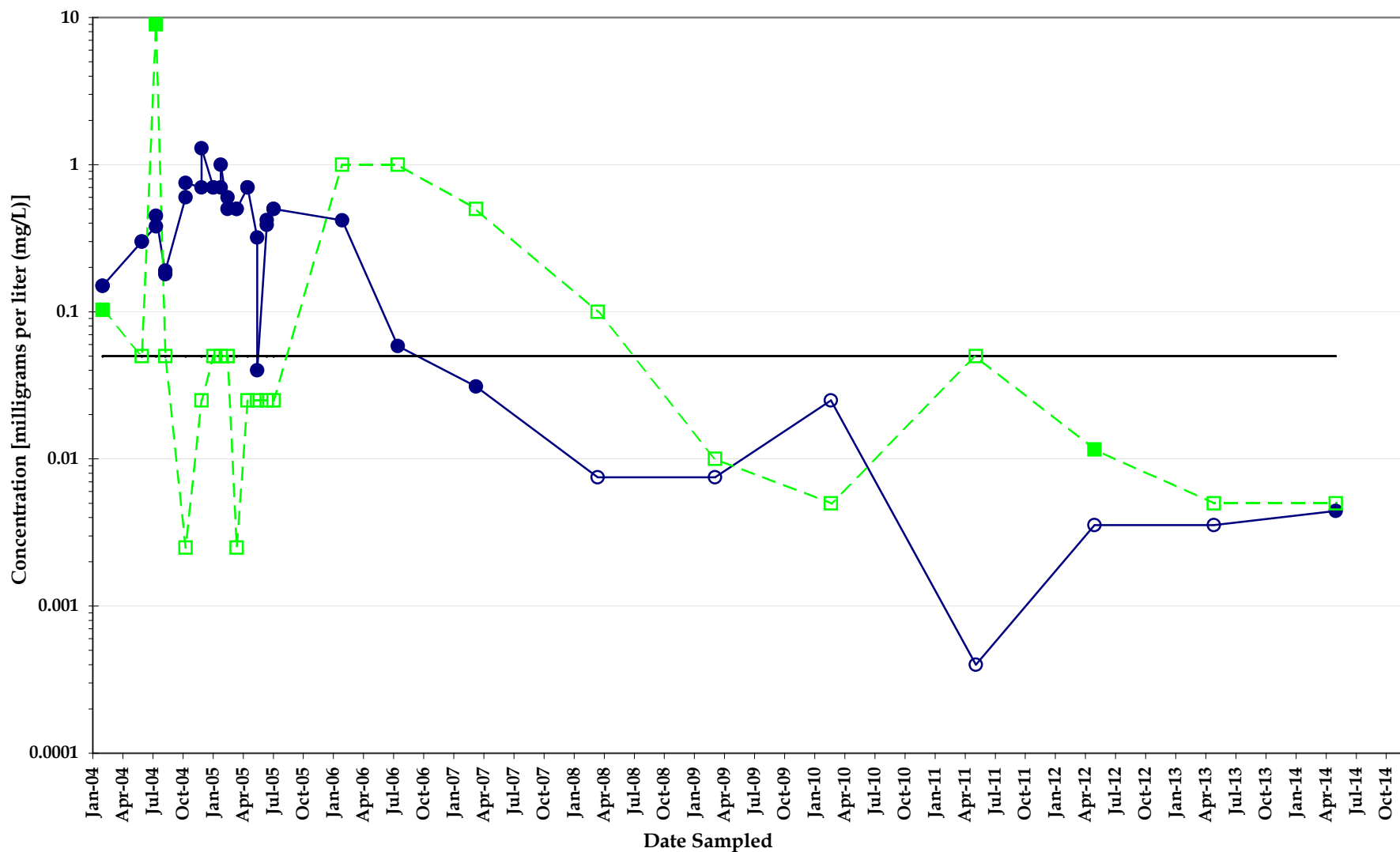


Chromium Concentrations Monitoring Well IW012

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

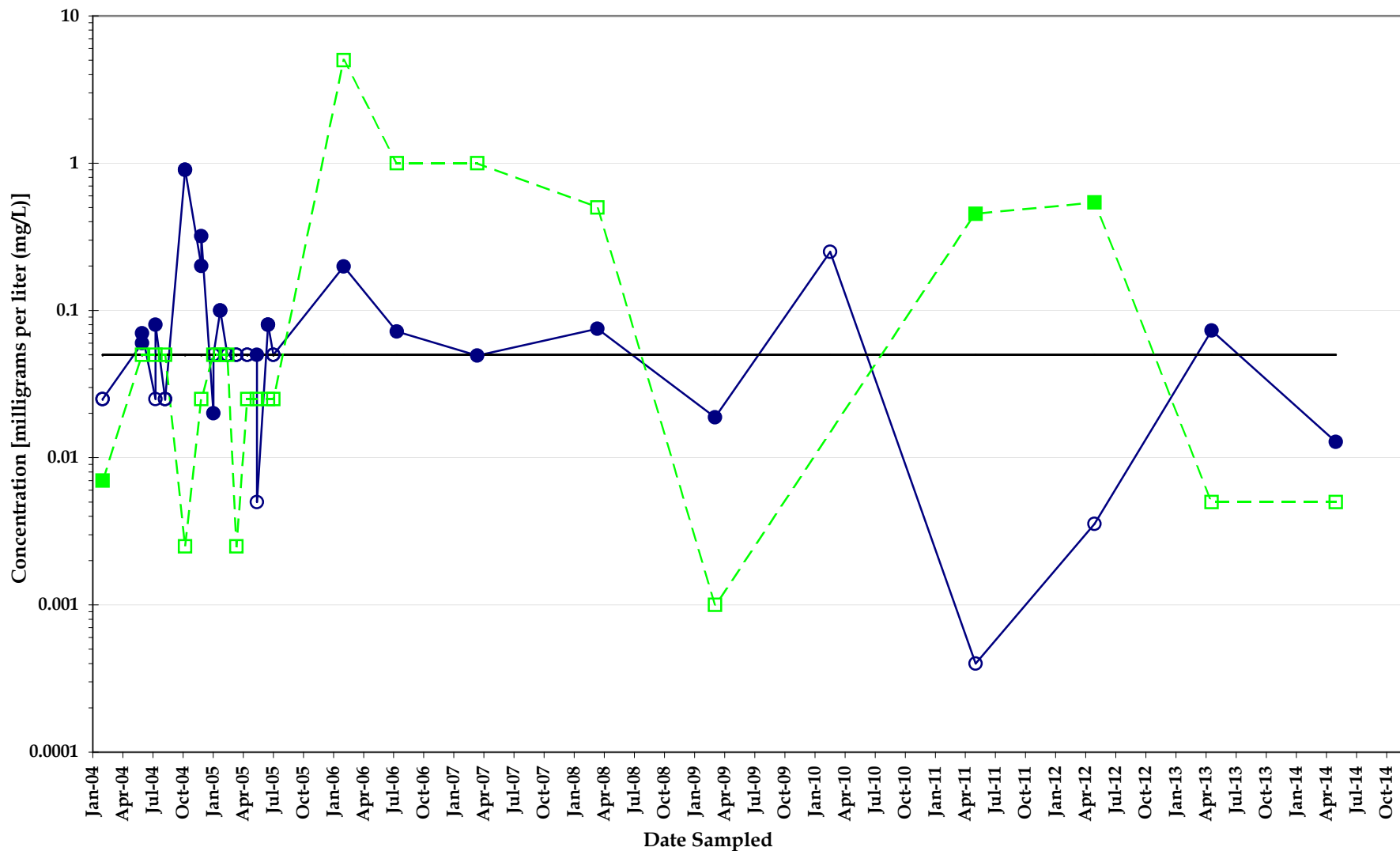


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well IW013

North Eunice Gas Plant
Lea County, New Mexico





Chromium (Solid Blue Line) ● Detects ○ Non-Detects — NMWQCC

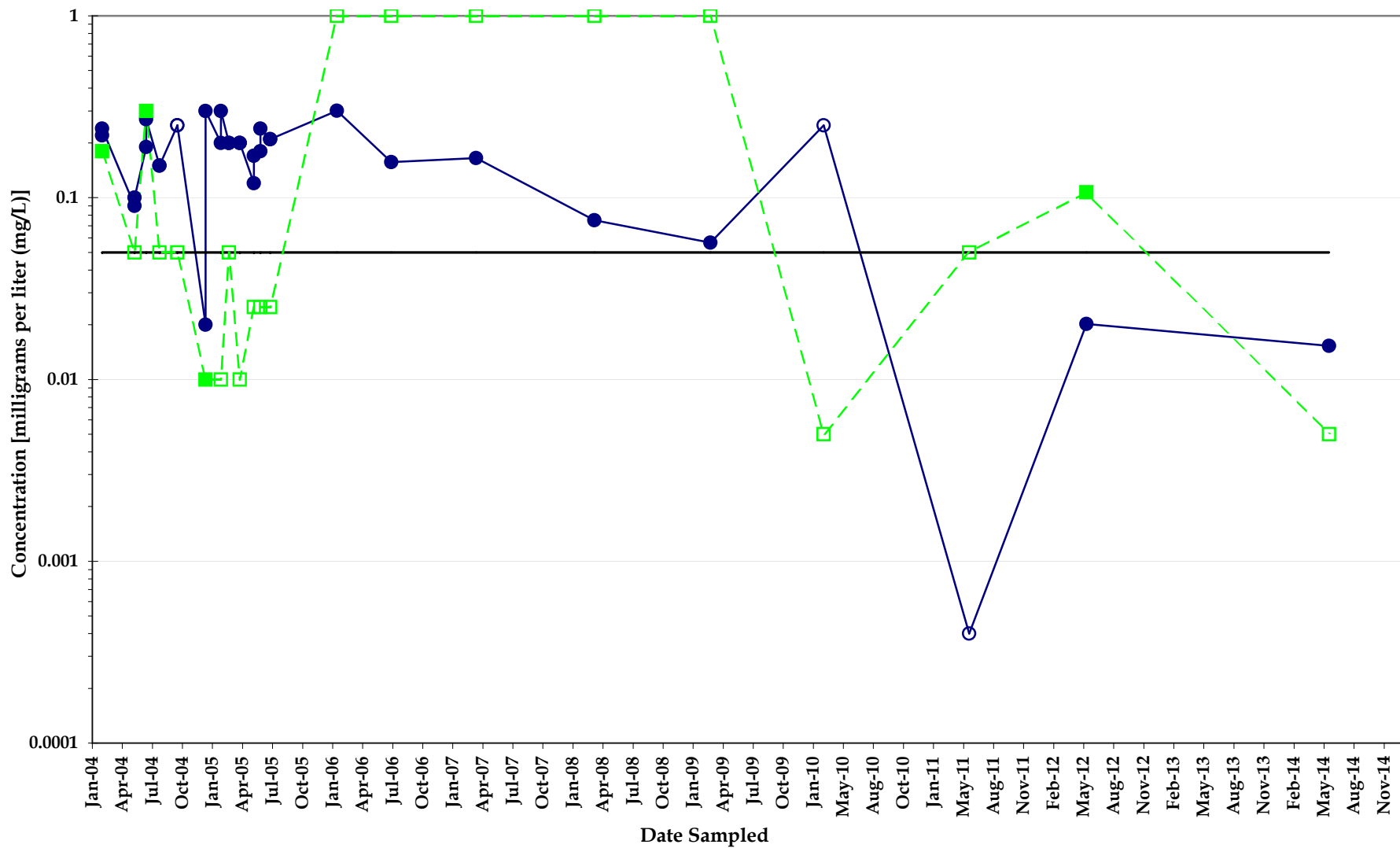
Hexavalent Chromium (Dashed Green Line) ■ Detects □ Non-Detects

Chromium Concentrations Monitoring Well IW014

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

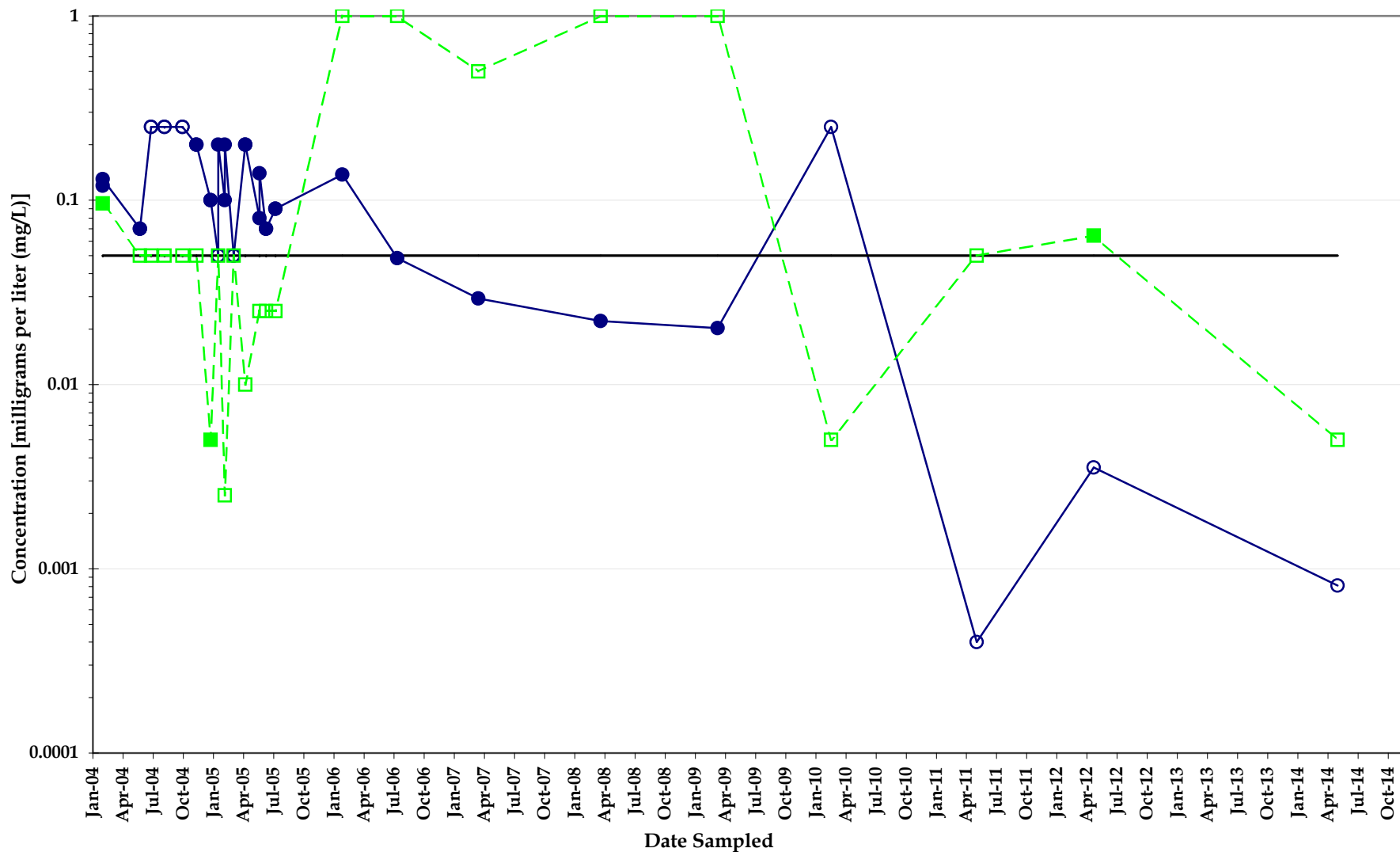


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well IW015

North Eunice Gas Plant
Lea County, New Mexico



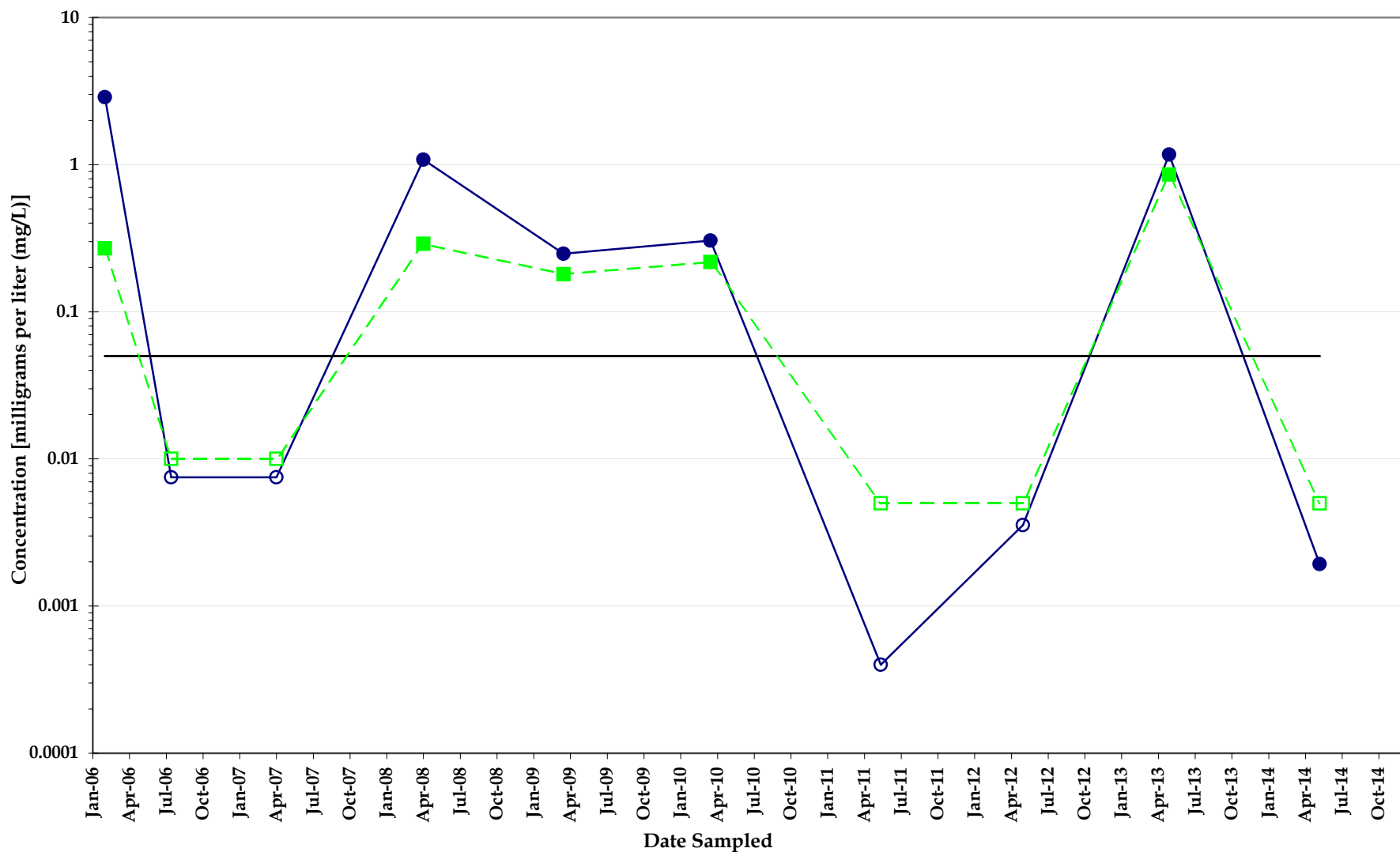


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well IW016

North Eunice Gas Plant
Lea County, New Mexico



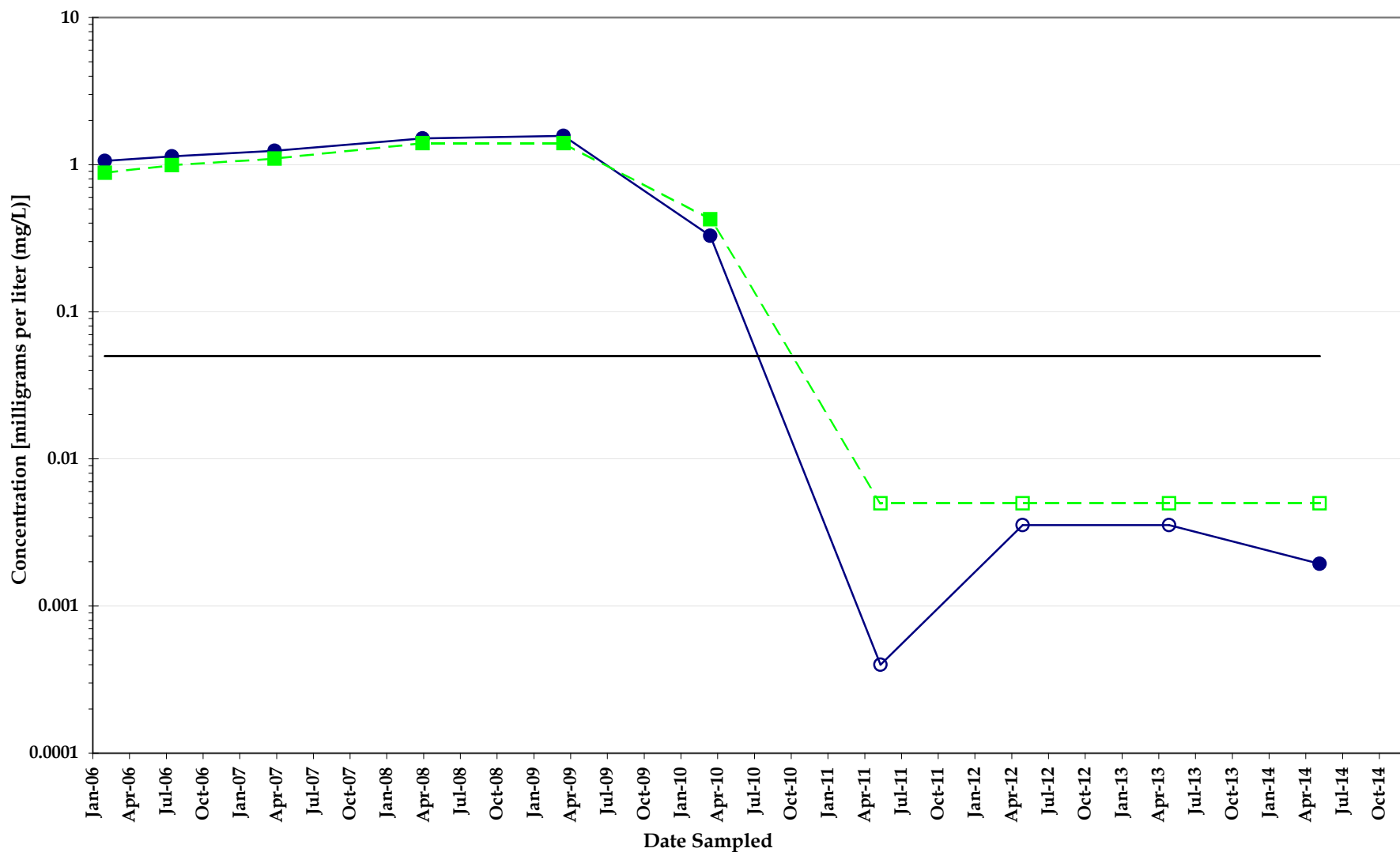


Chromium Concentrations Monitoring Well IW018

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

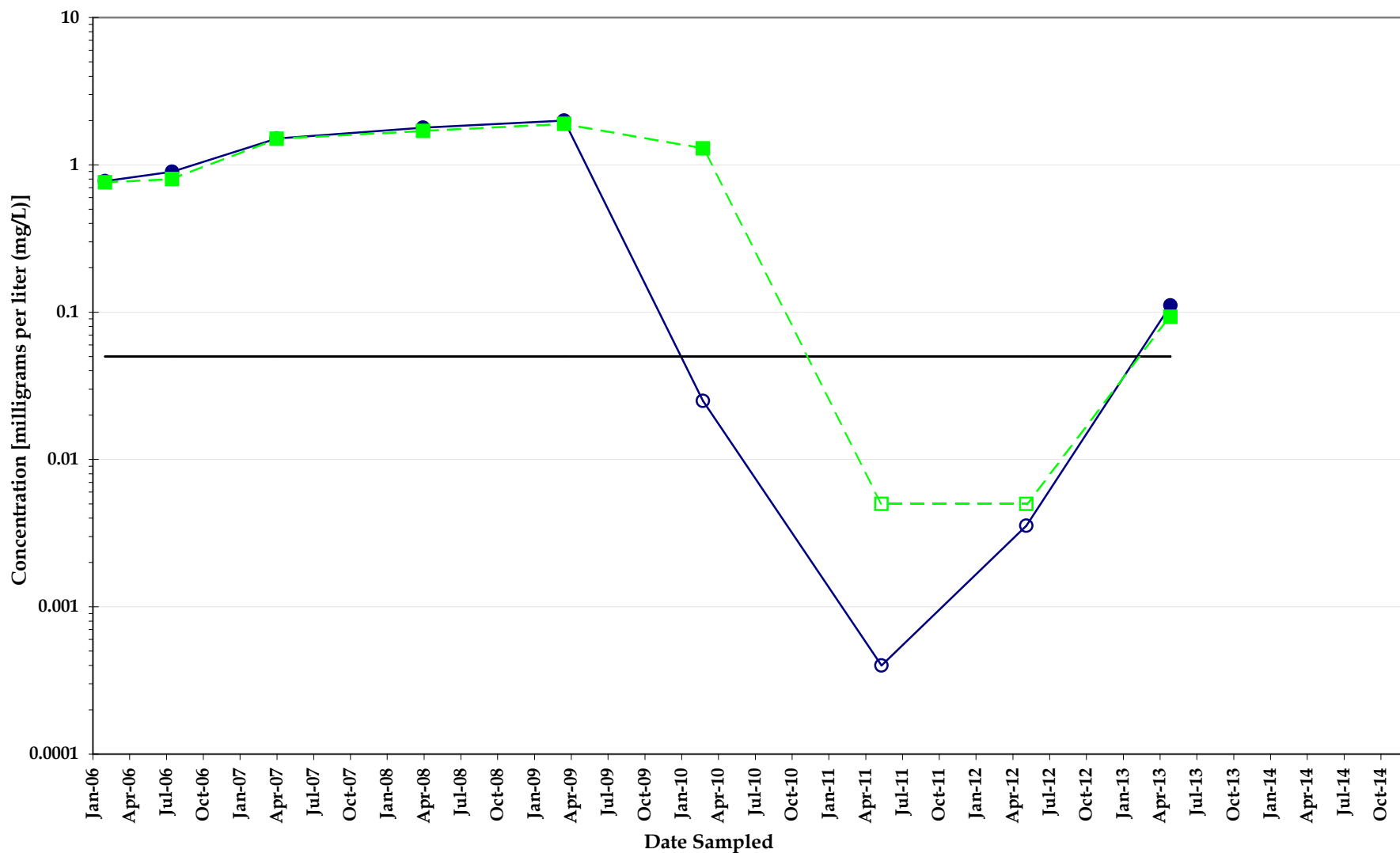


Chromium Concentrations Monitoring Well IW019

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

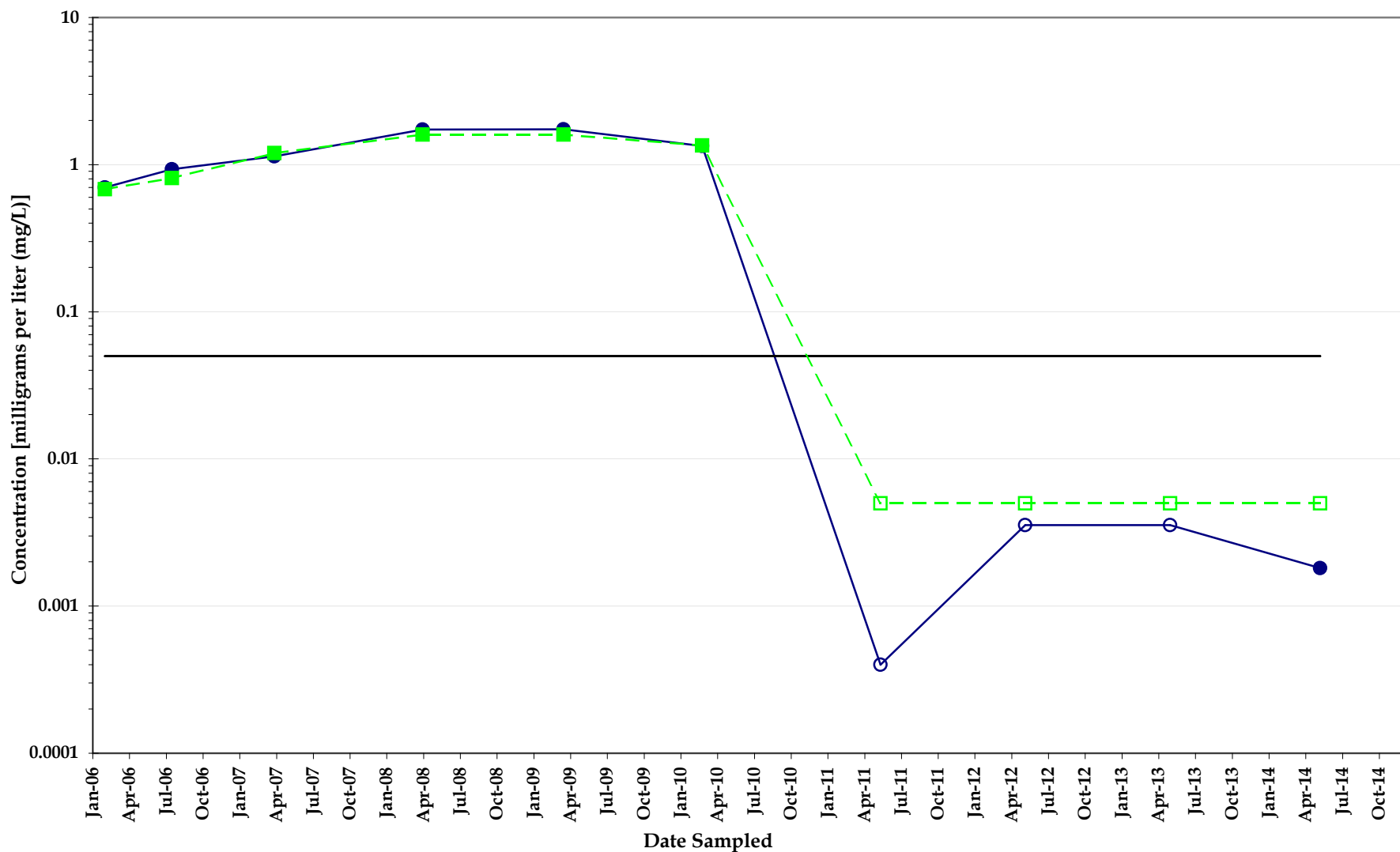


Chromium Concentrations Monitoring Well IW020

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

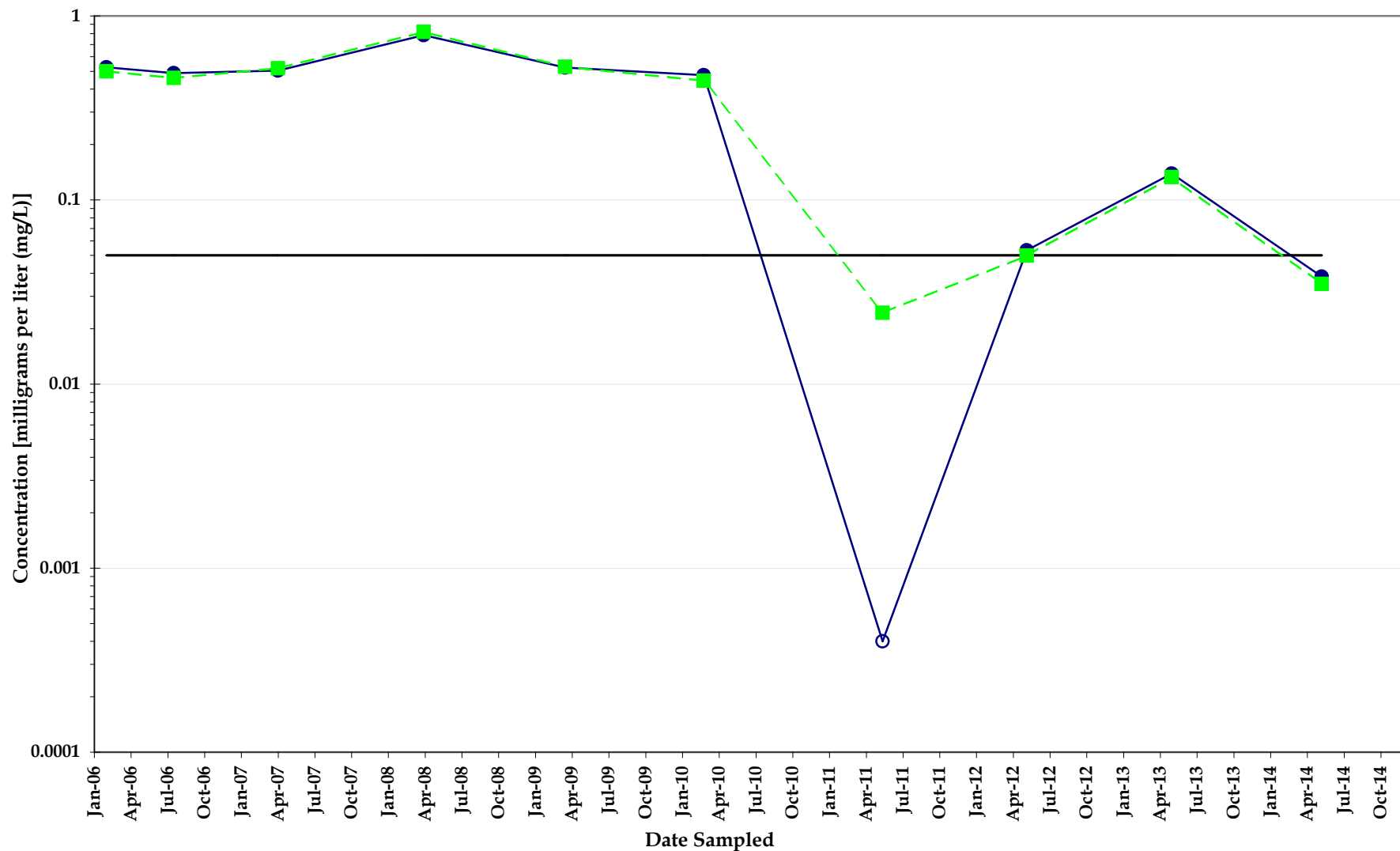


Chromium Concentrations Monitoring Well IW021

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

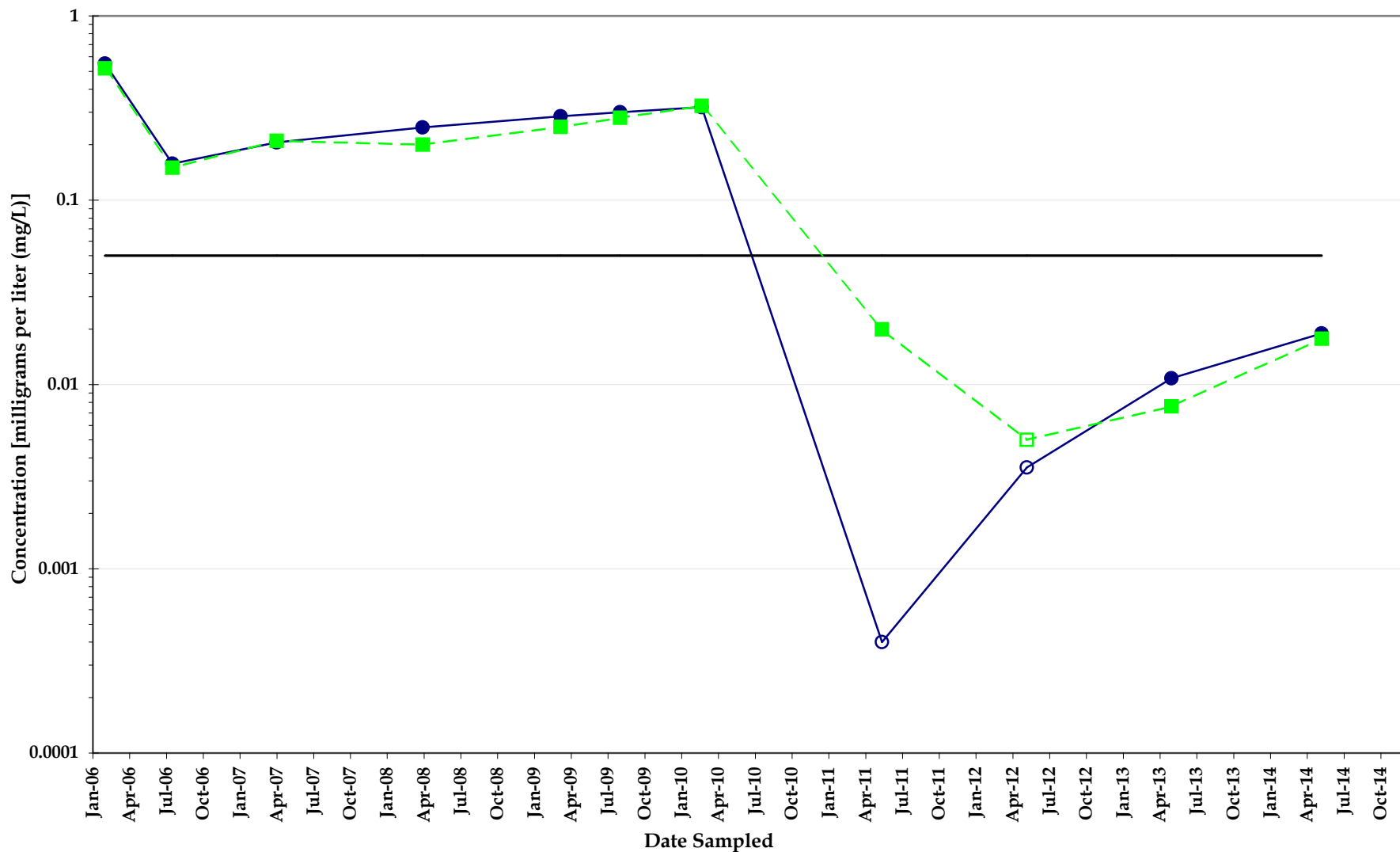


Chromium Concentrations Monitoring Well IW022

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

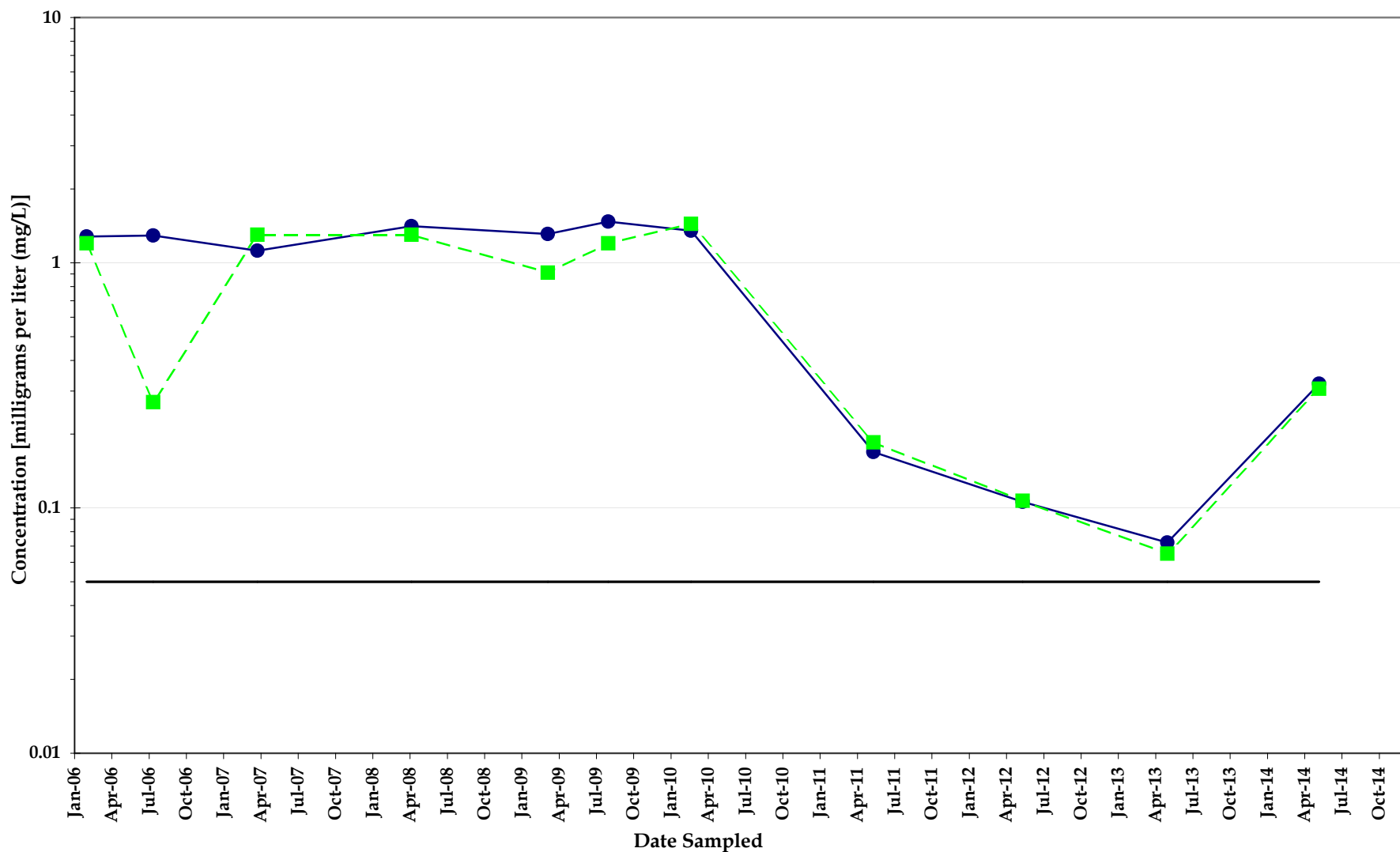


Chromium Concentrations Monitoring Well IW023

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

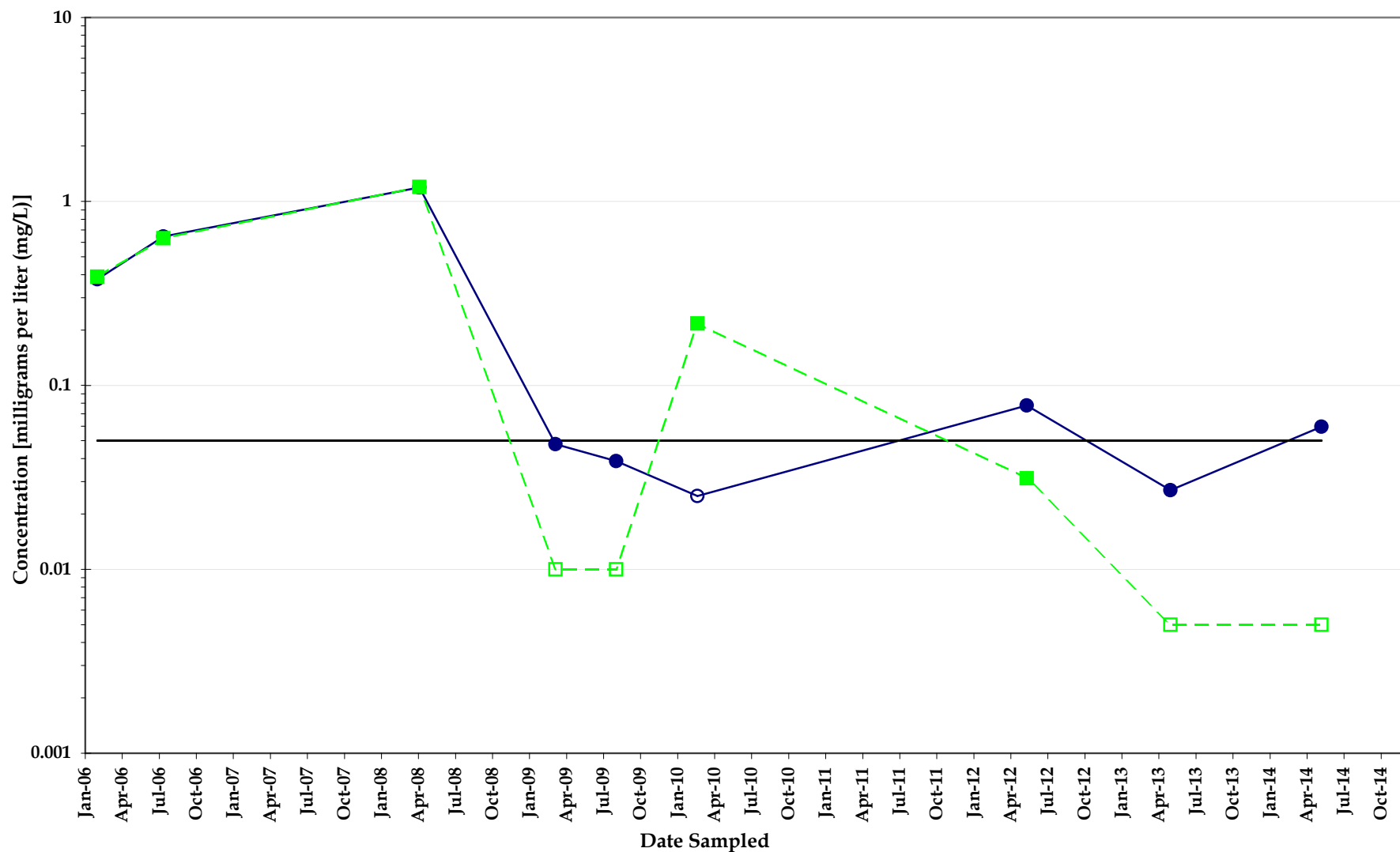


Chromium Concentrations Monitoring Well IW024

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

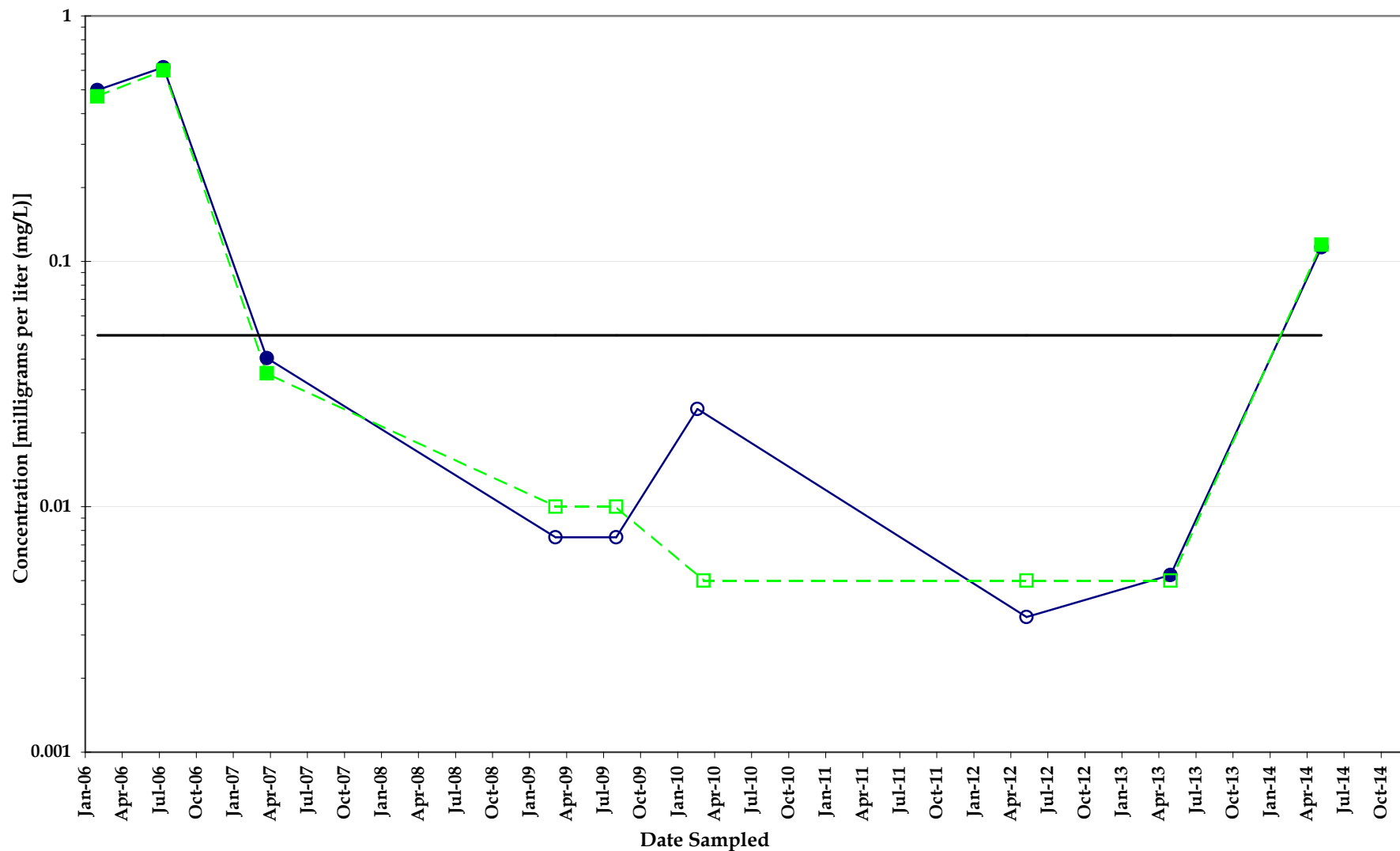


Chromium Concentrations Monitoring Well IW025

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

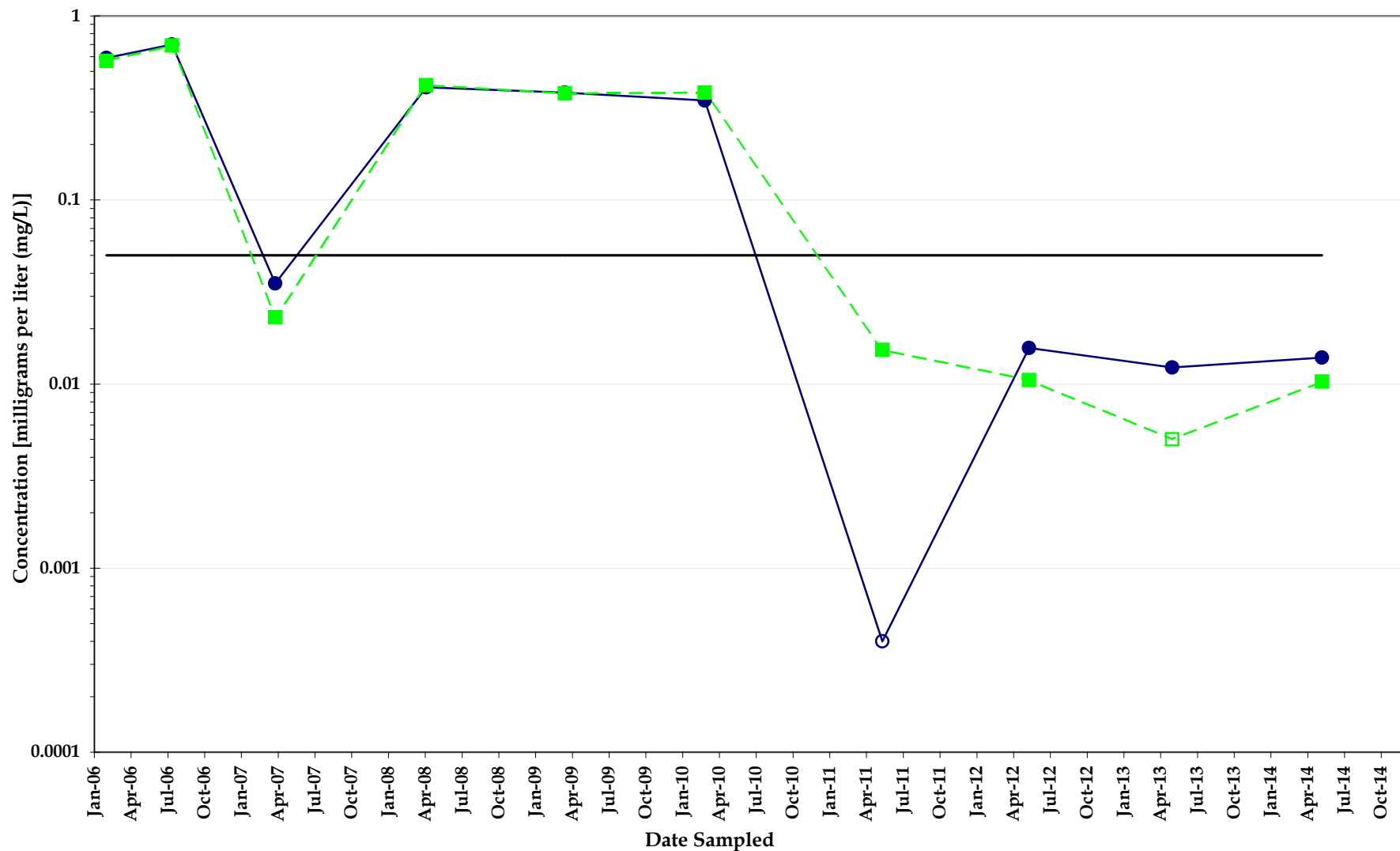


Chromium Concentrations Monitoring Well IW026

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

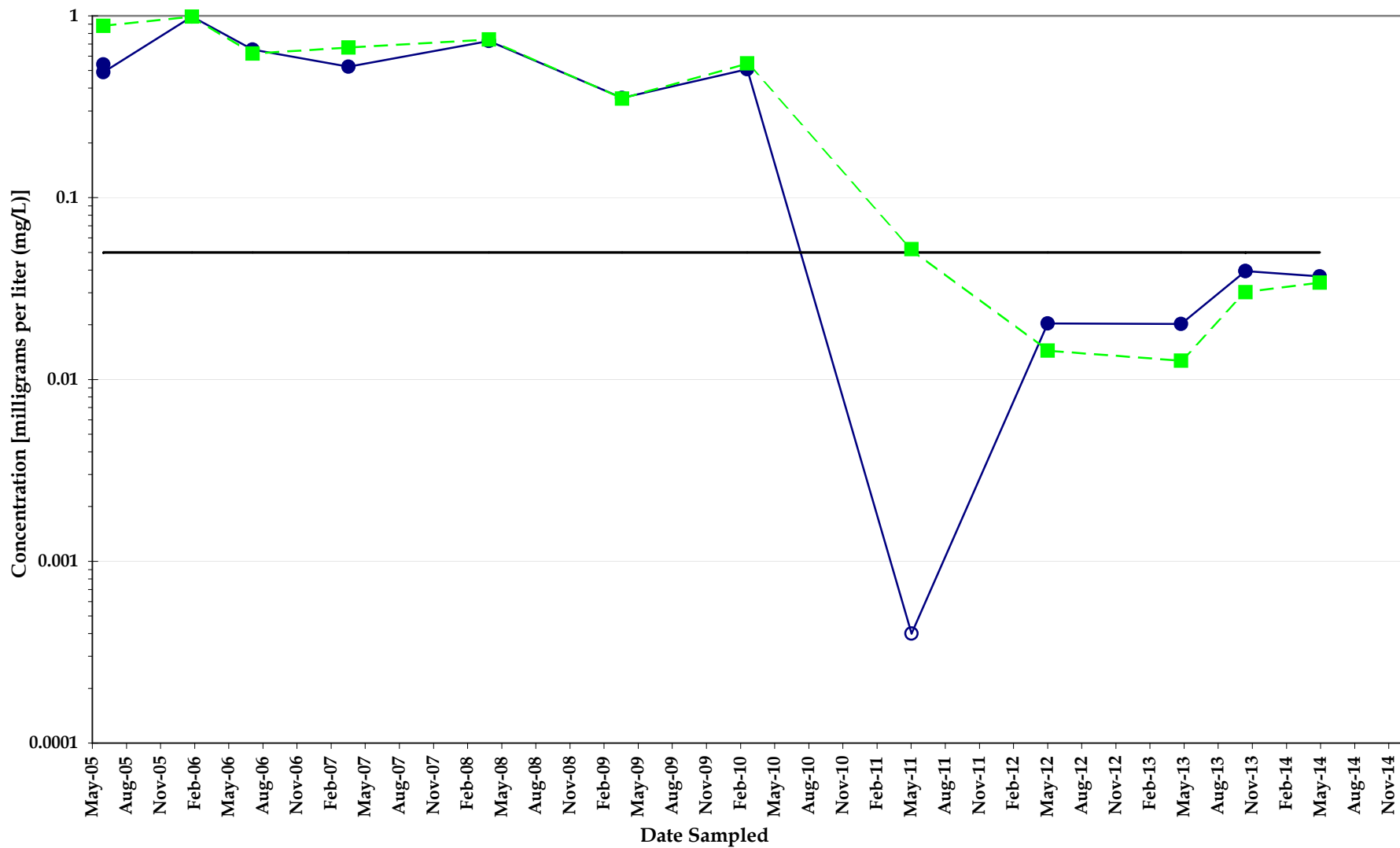


Chromium Concentrations Monitoring Well IW027

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

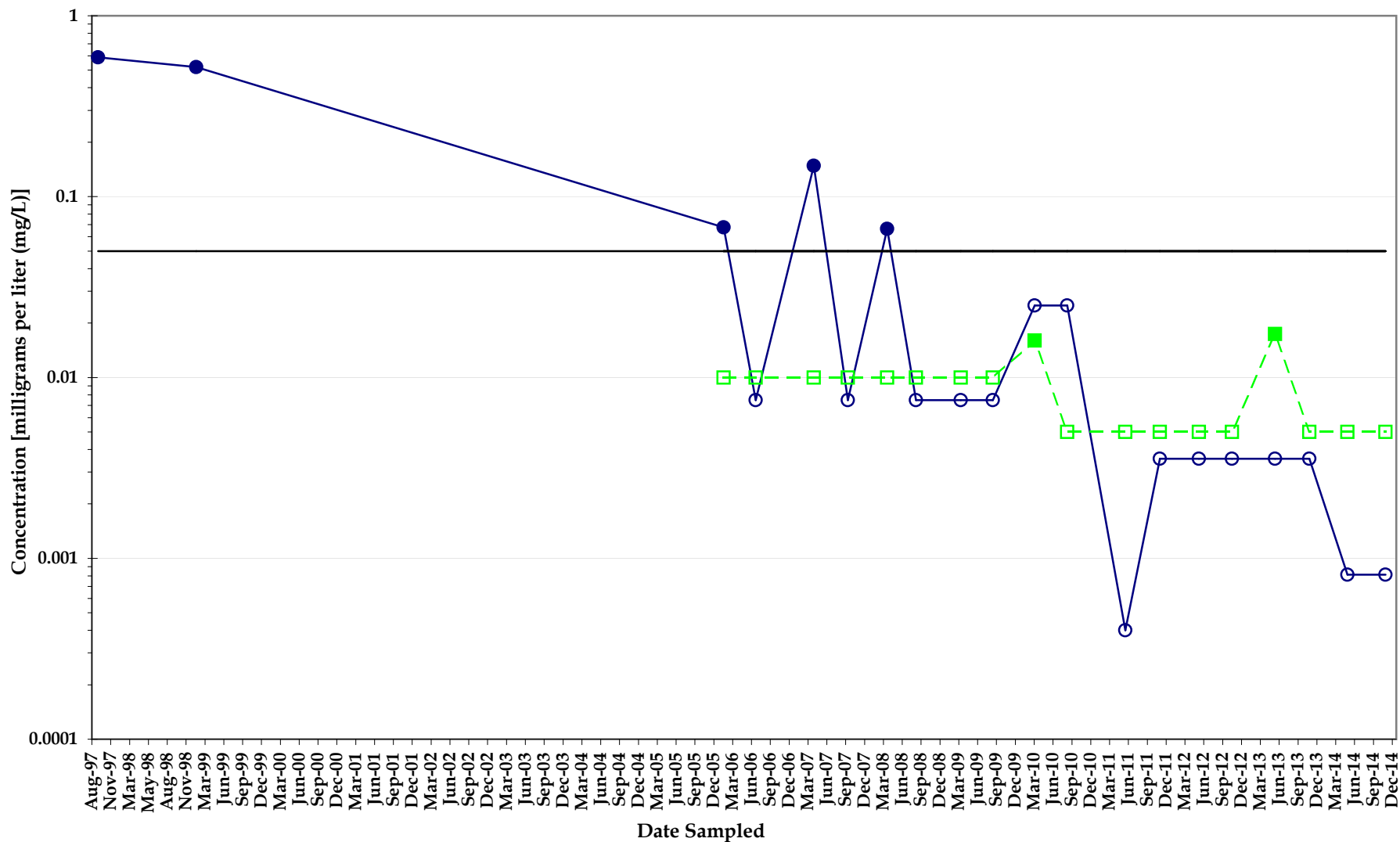


Chromium Concentrations Monitoring Well IW028

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

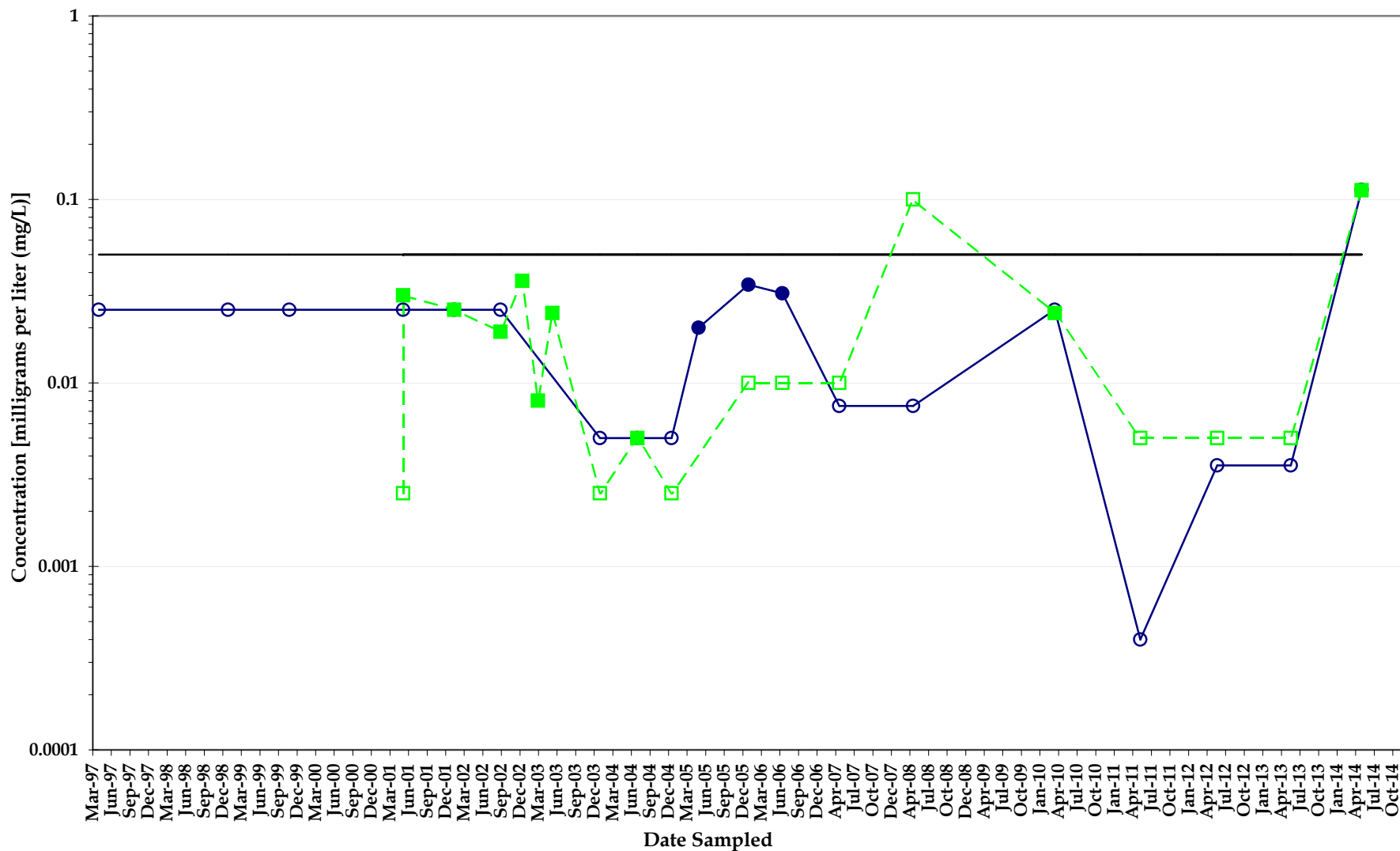


Chromium Concentrations Monitoring Well LORDWW

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

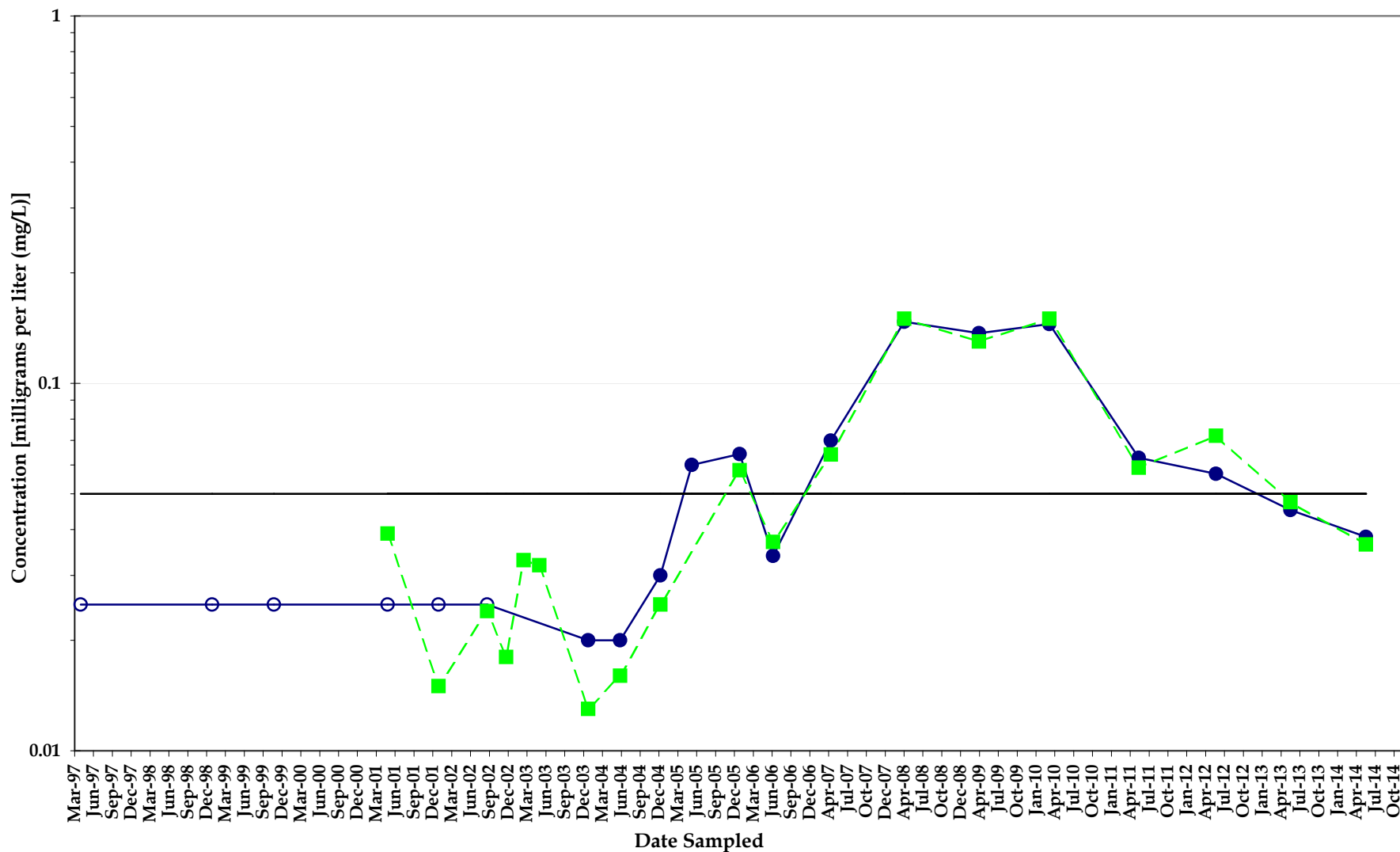


Chromium Concentrations Monitoring Well MW001

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



Chromium

Hexavalent Chromium

Detects

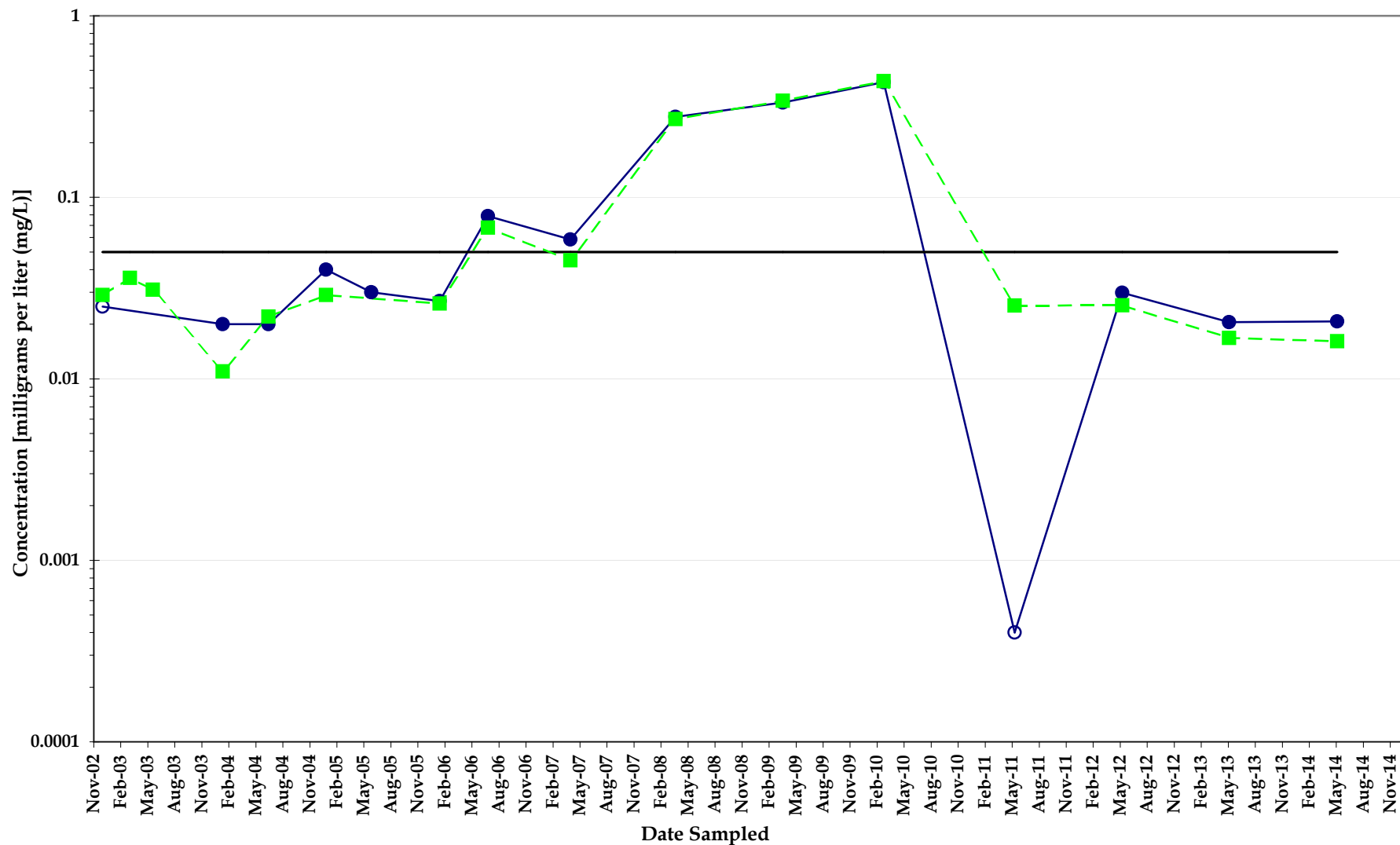
Non-Detects

NMWQCC

Chromium Concentrations Monitoring Well MW002

North Eunice Gas Plant
Lea County, New Mexico

Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

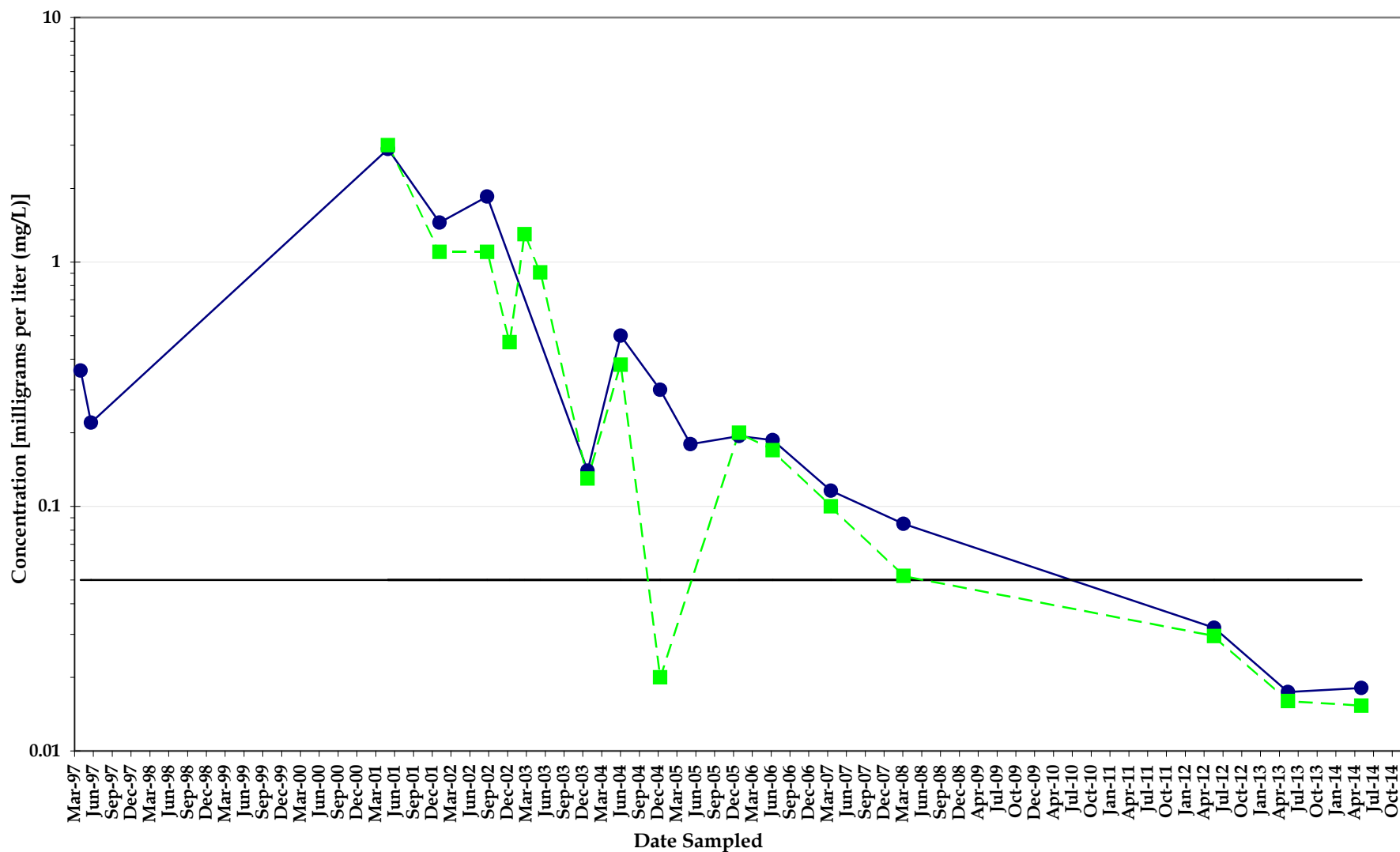


Chromium Concentrations Monitoring Well MW002A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

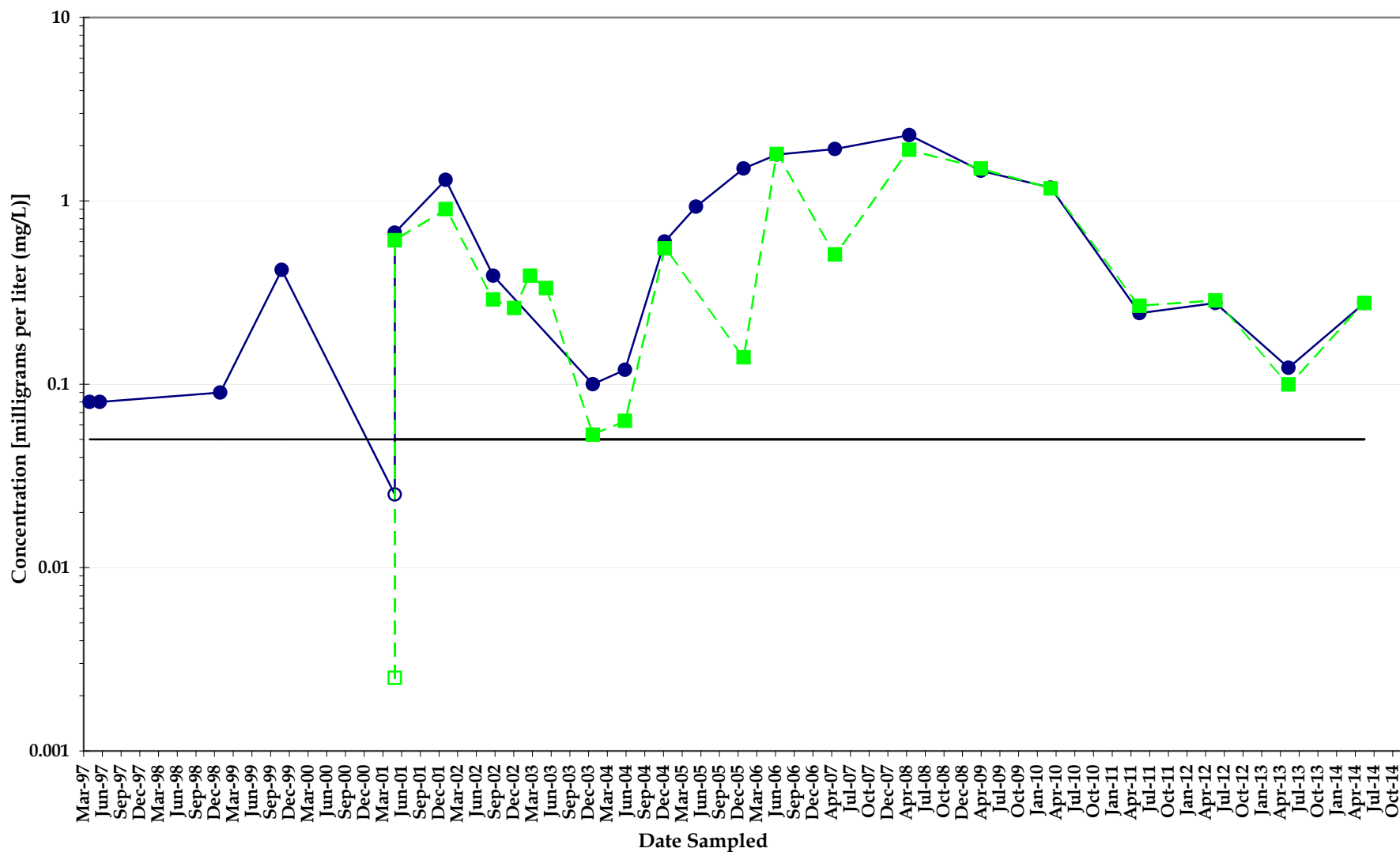


Chromium Concentrations Monitoring Well MW003

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

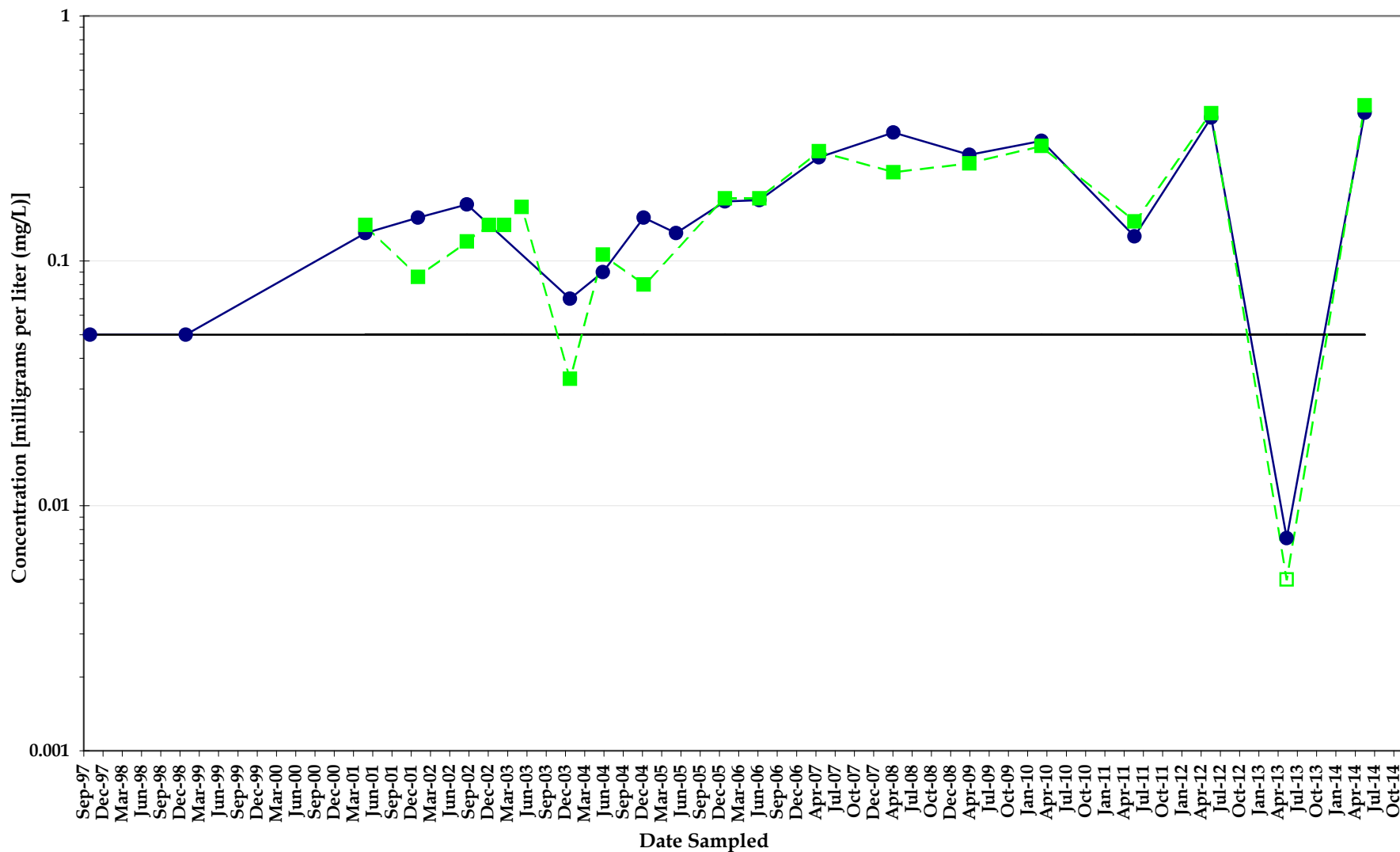


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW004

North Eunice Gas Plant
Lea County, New Mexico



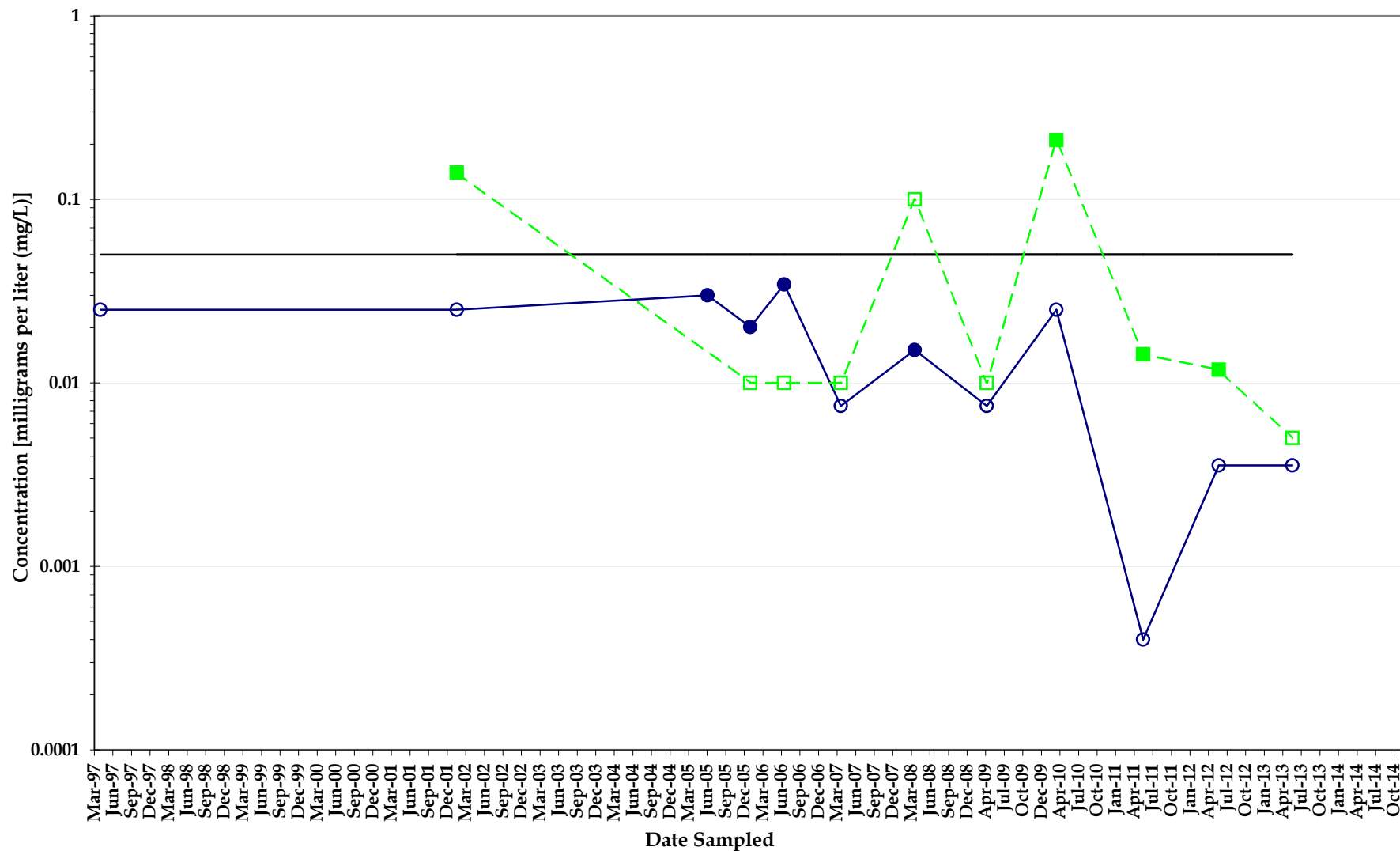


Chromium Concentrations Monitoring Well MW004A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

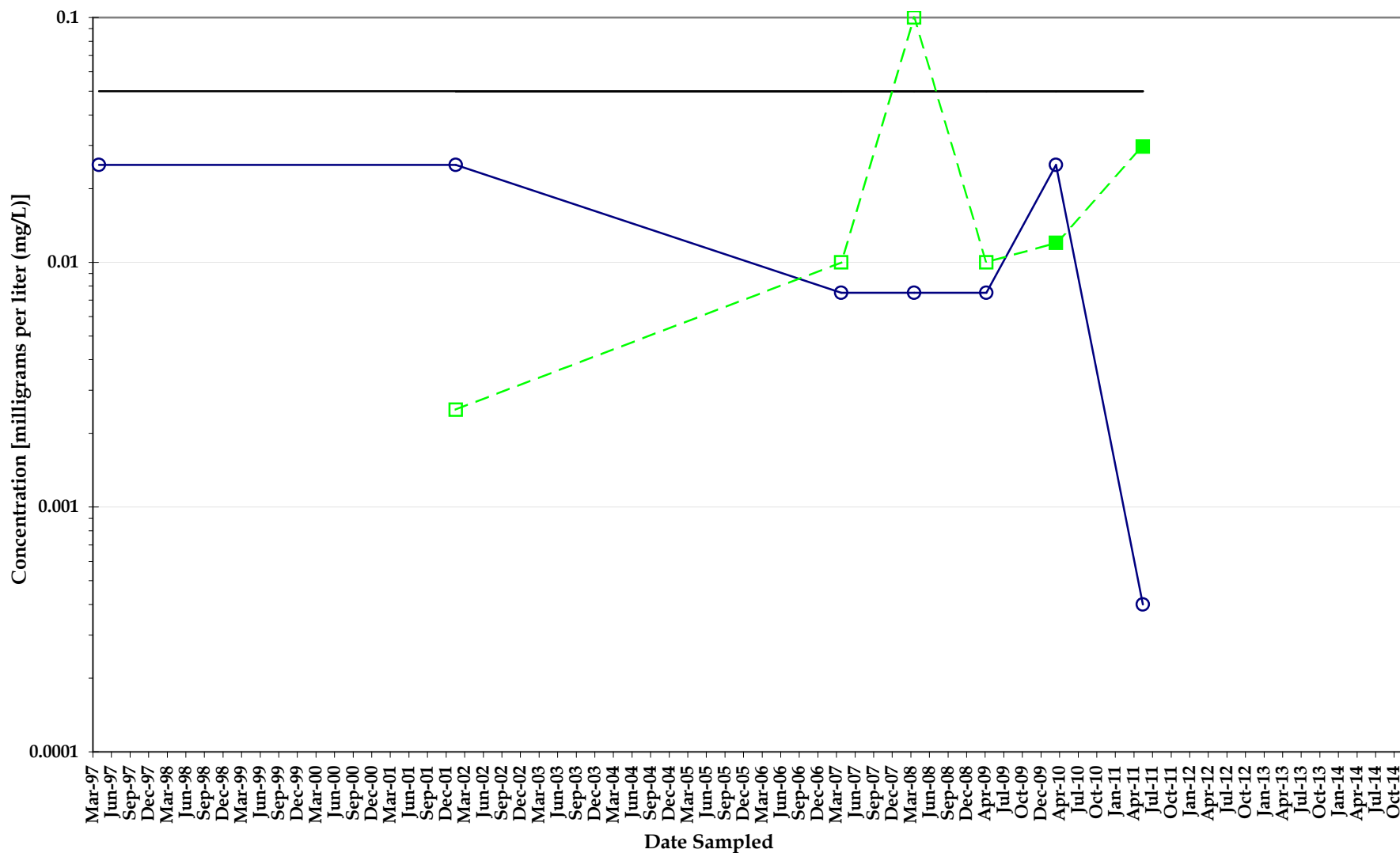


Chromium Concentrations Monitoring Well MW005

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

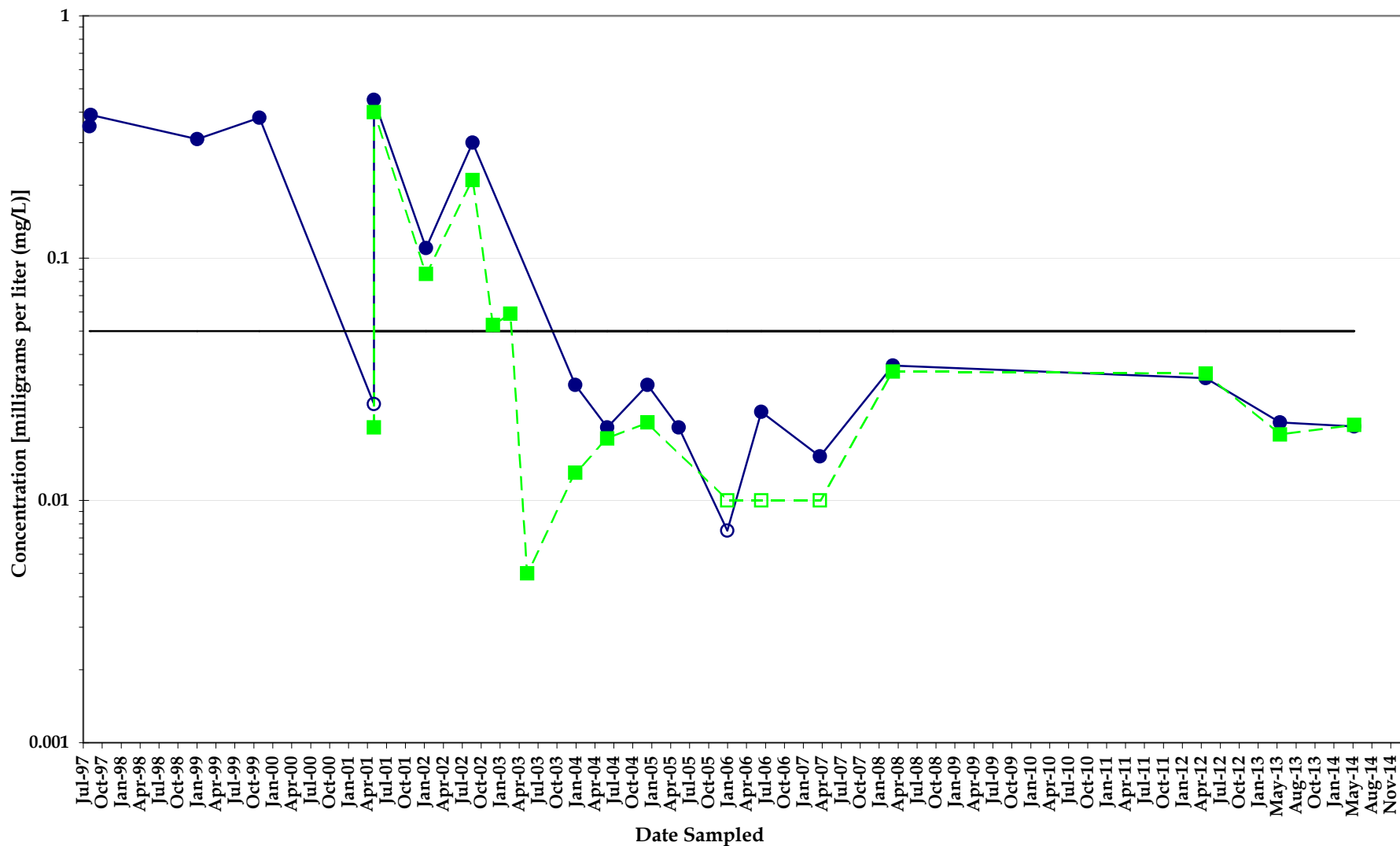


Chromium Concentrations Monitoring Well MW006

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

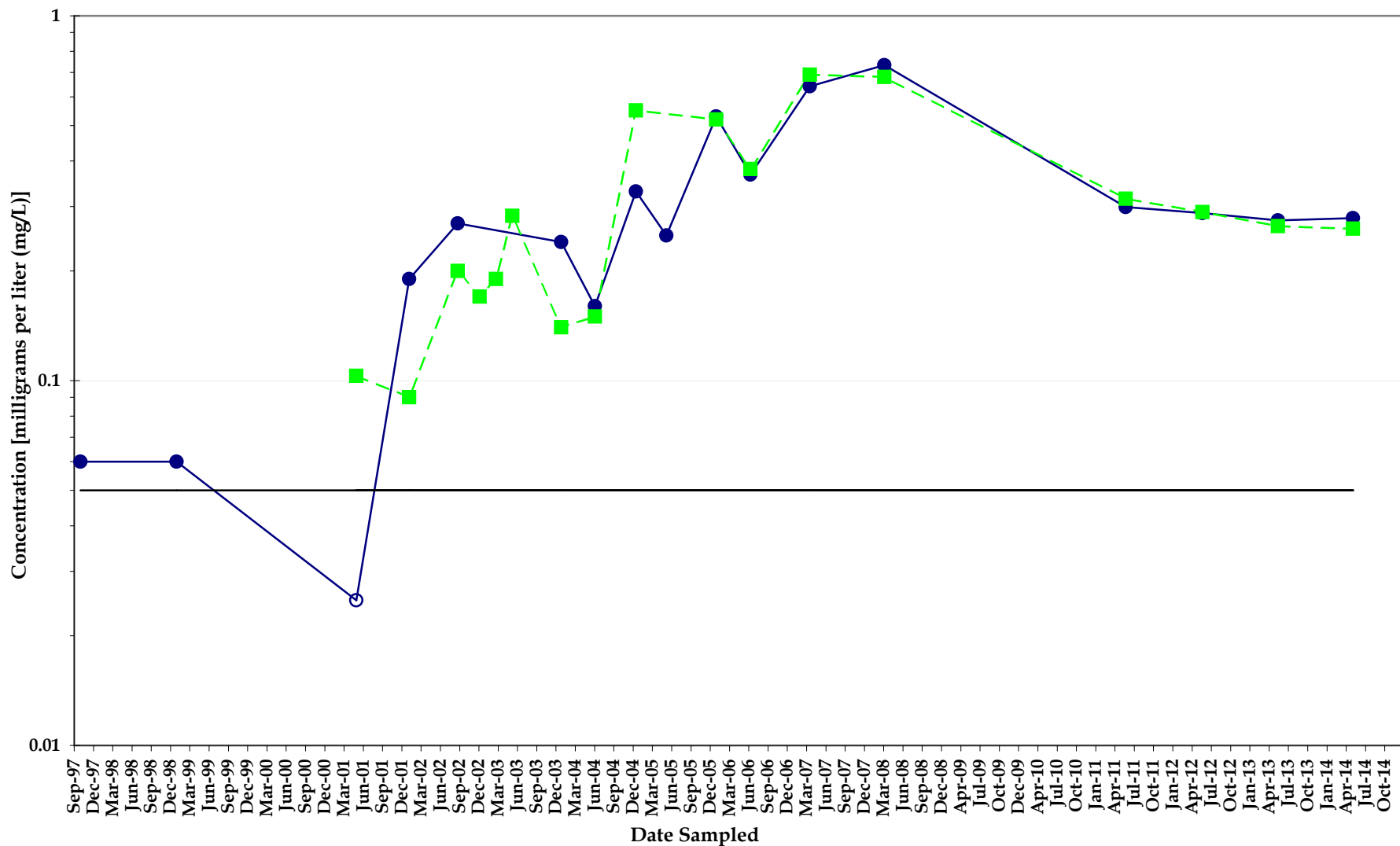


Chromium Concentrations Monitoring Well MW007

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

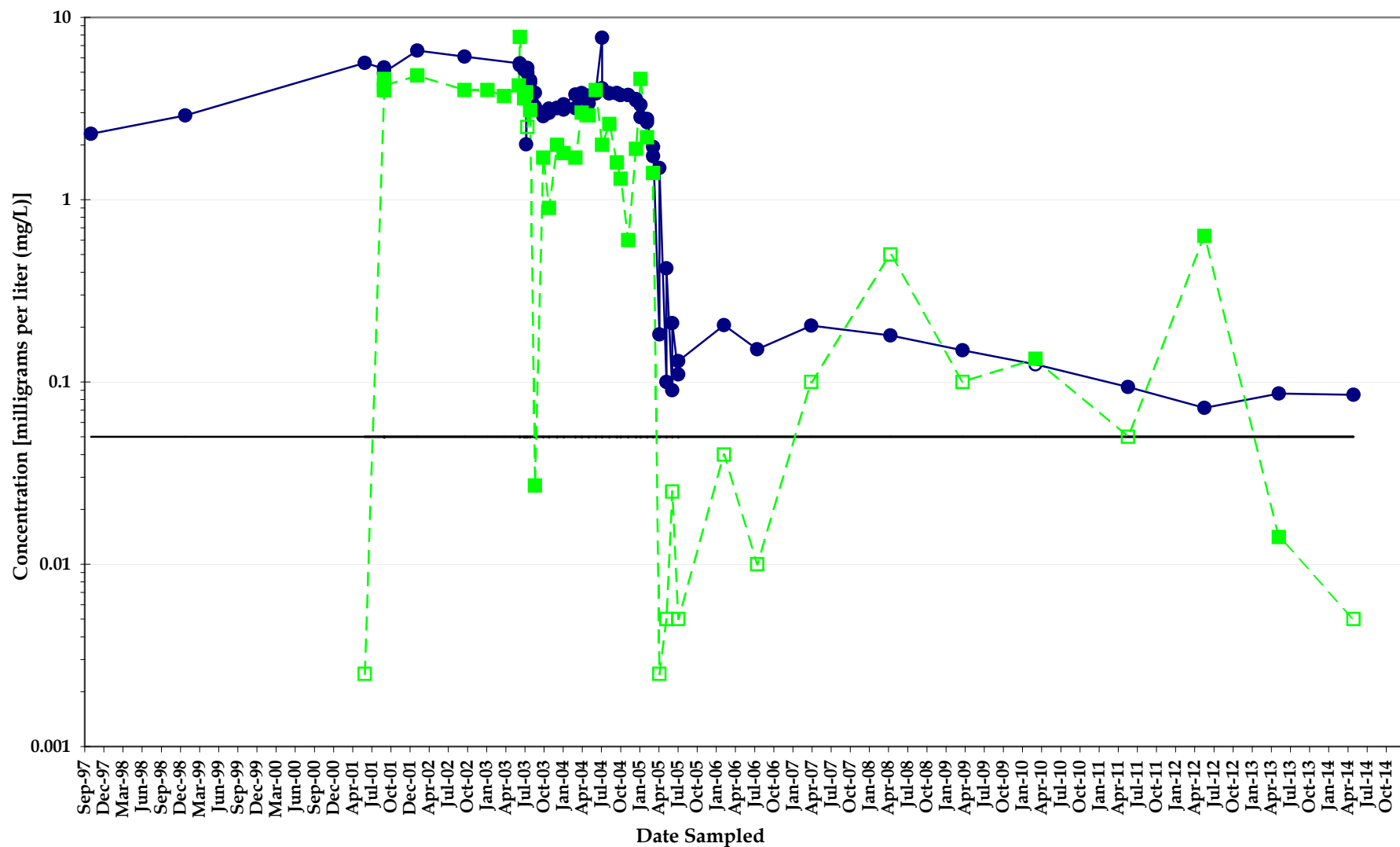


Chromium Concentrations Monitoring Well MW007A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

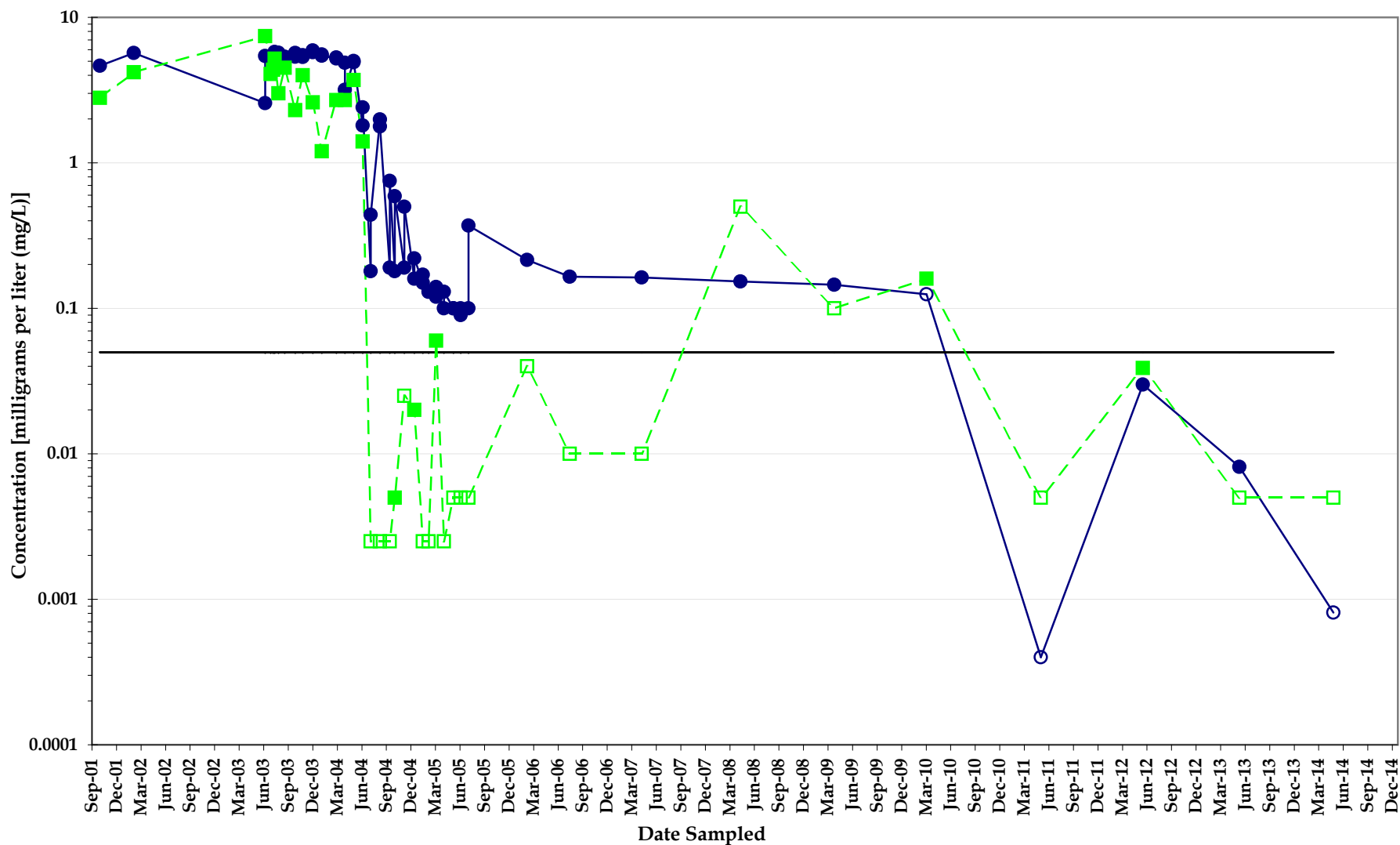


Chromium Concentrations Monitoring Well MW008A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

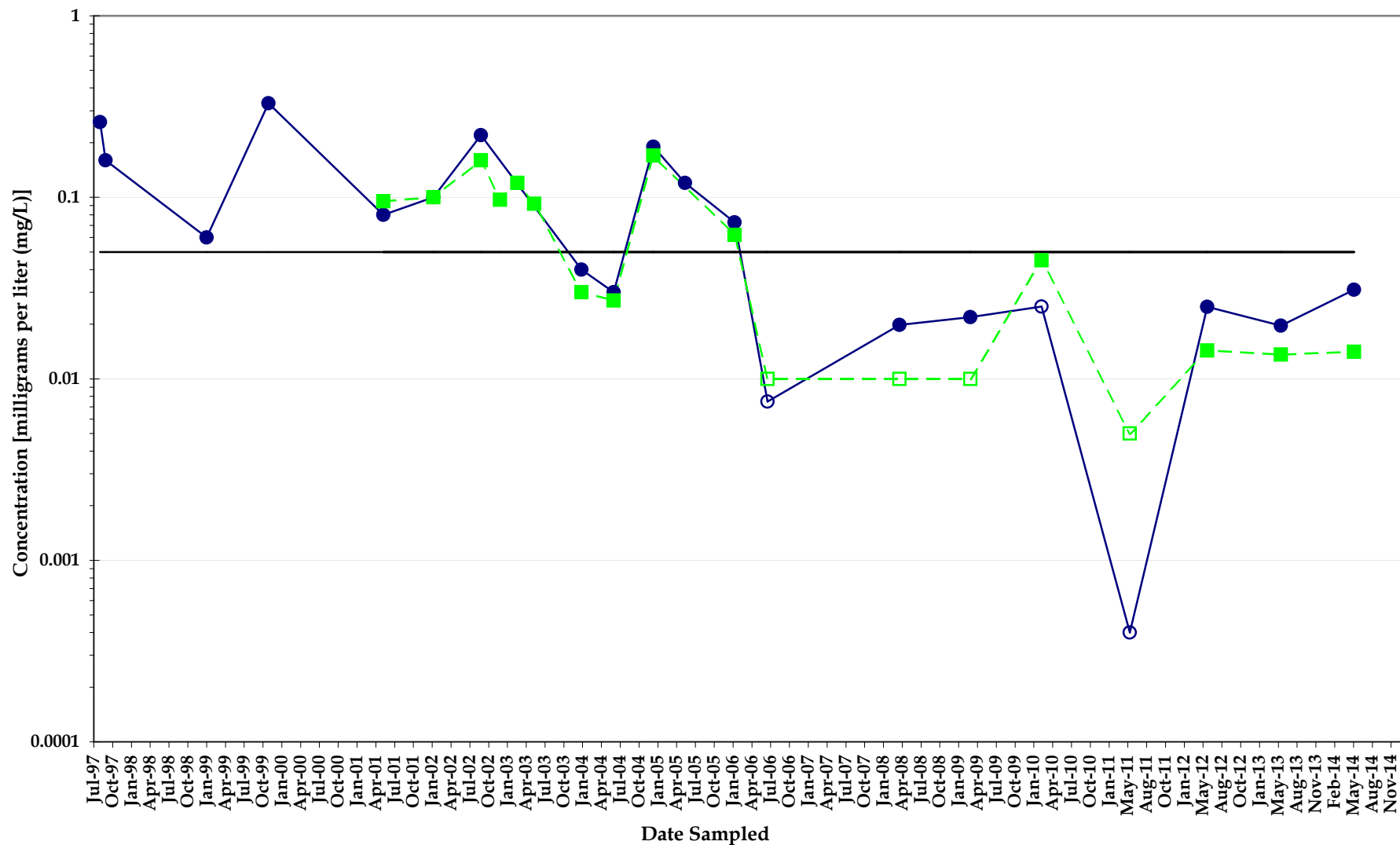


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW008M

North Eunice Gas Plant
Lea County, New Mexico



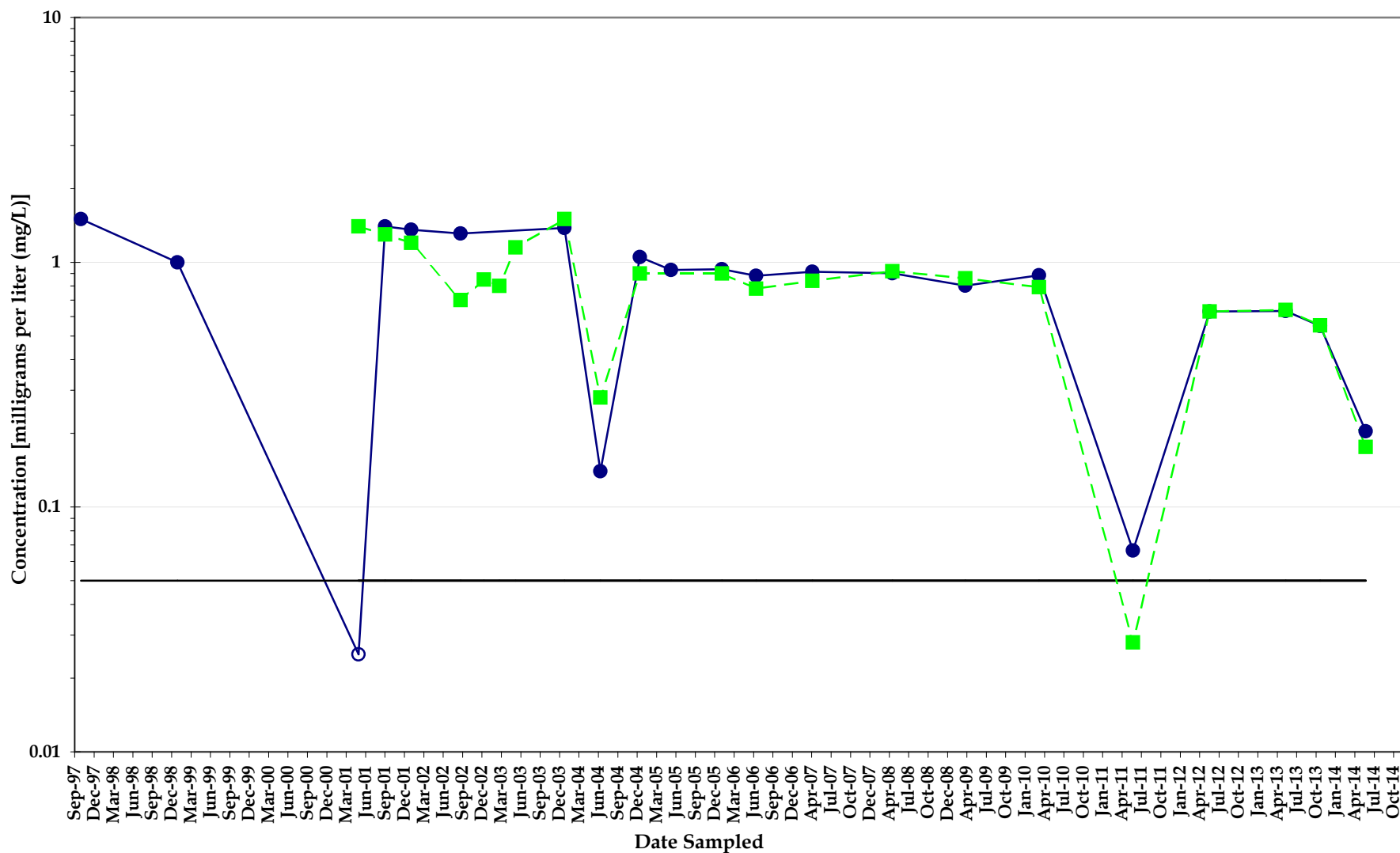


Chromium Concentrations Monitoring Well MW009

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

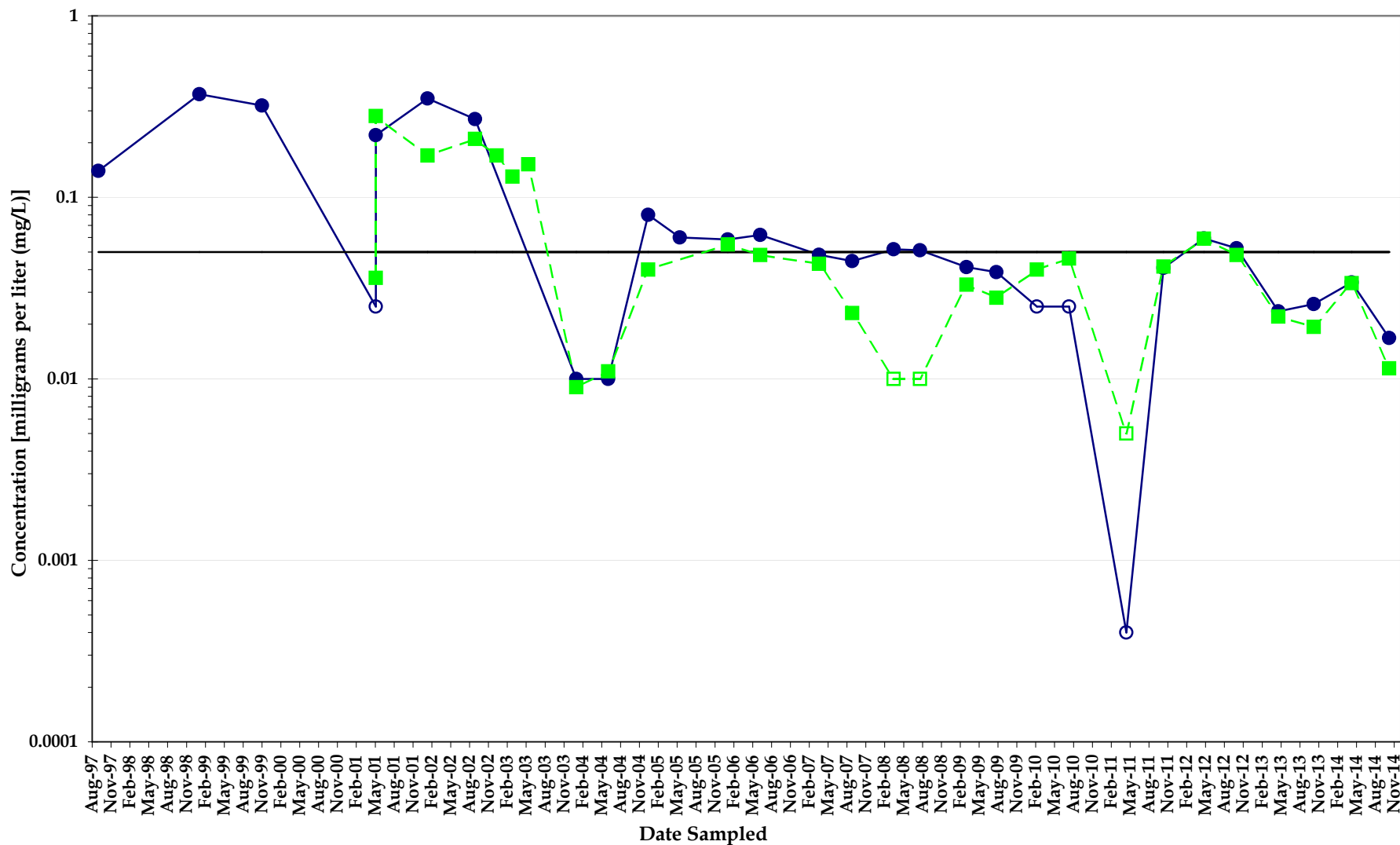


Chromium Concentrations Monitoring Well MW009A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

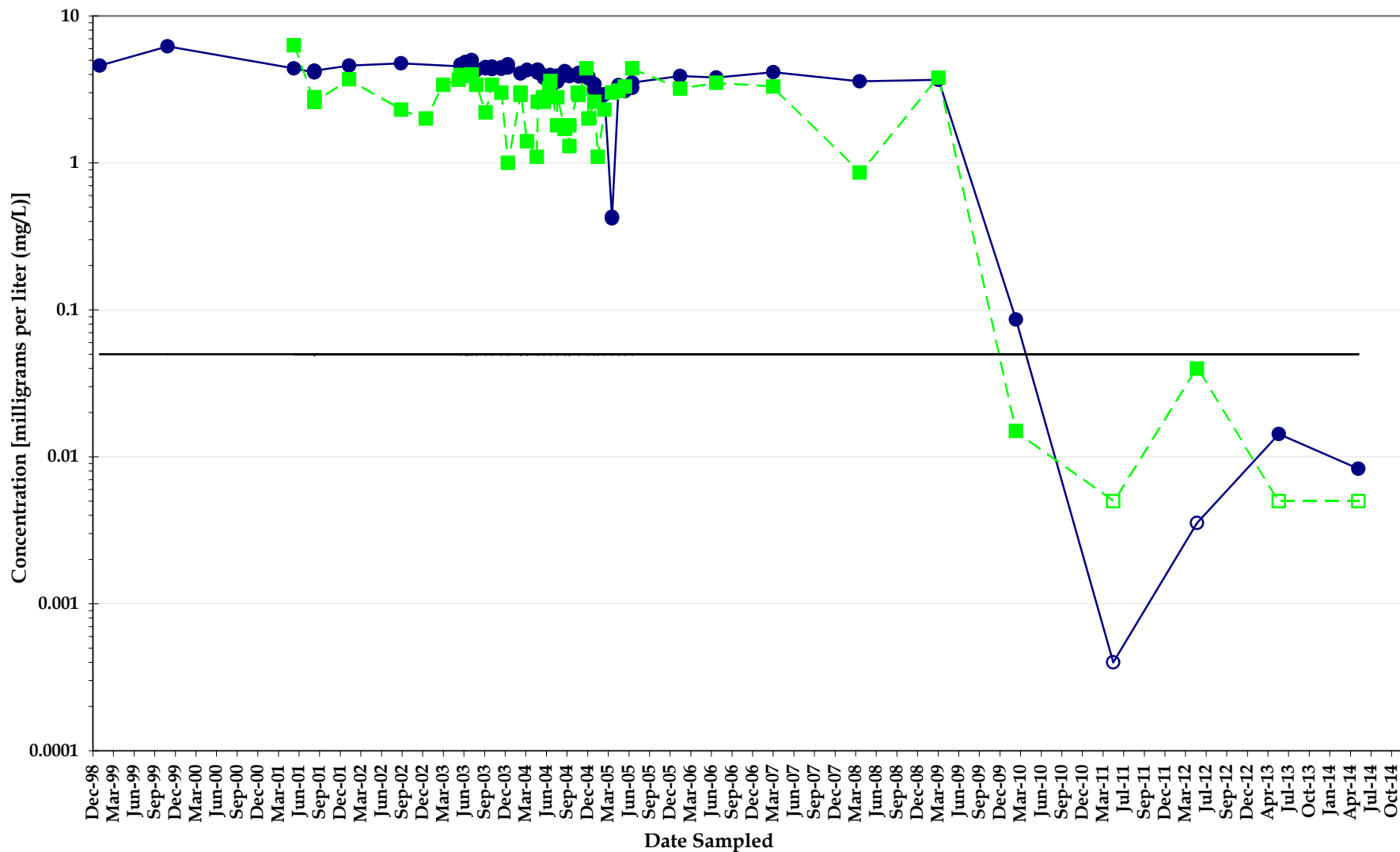


Chromium Concentrations Monitoring Well MW010

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

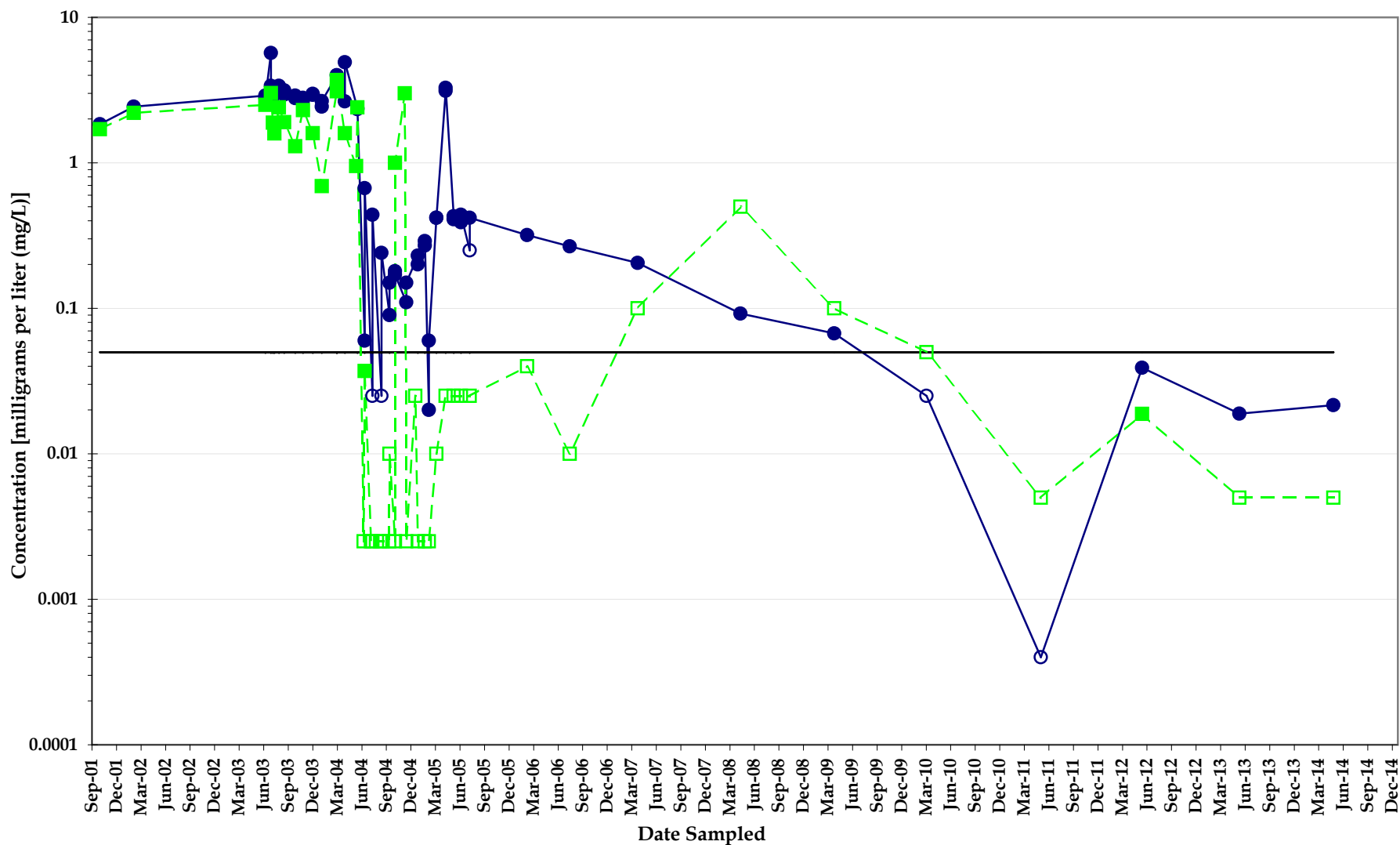


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW011

North Eunice Gas Plant
Lea County, New Mexico



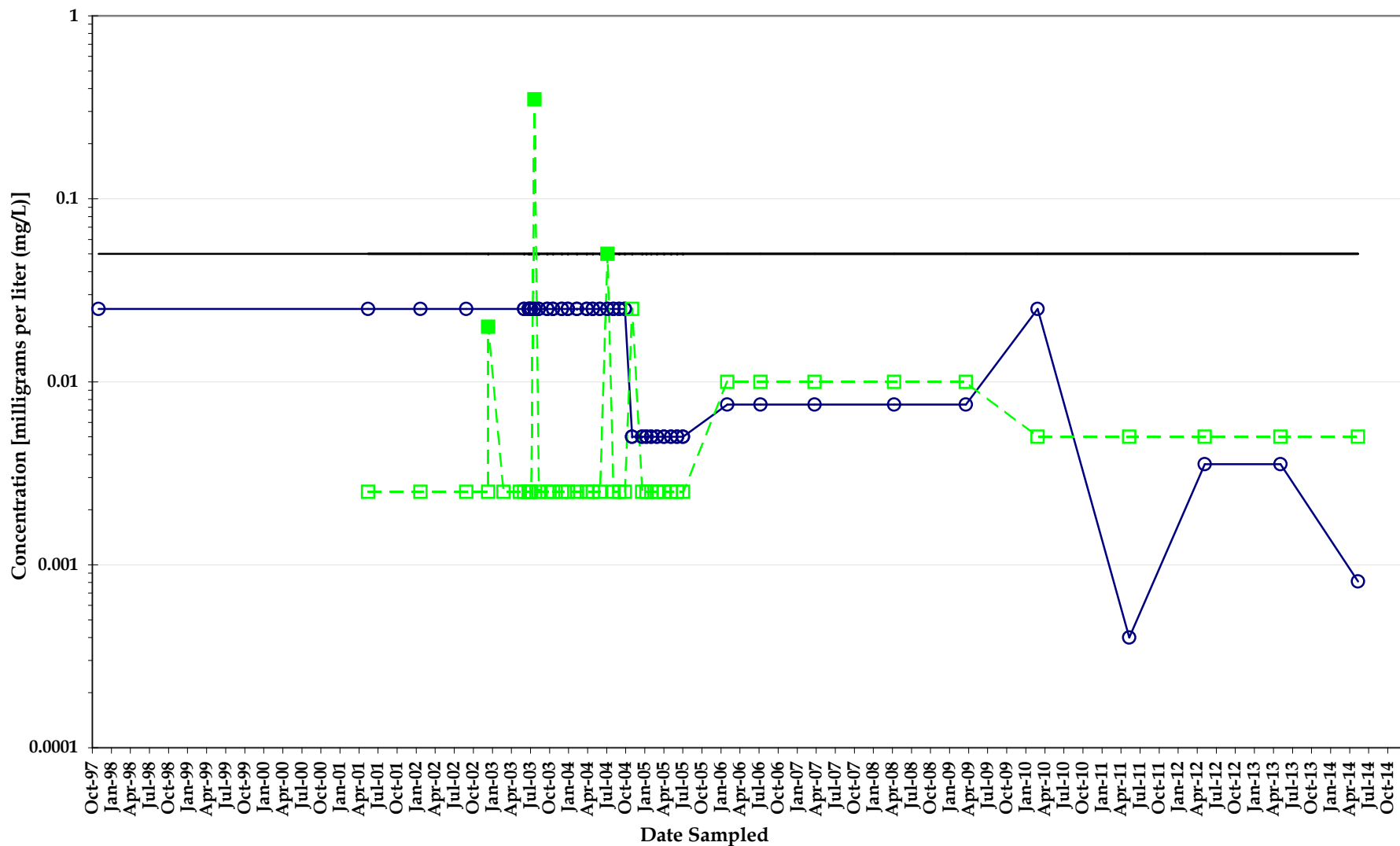


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW011M

North Eunice Gas Plant
Lea County, New Mexico



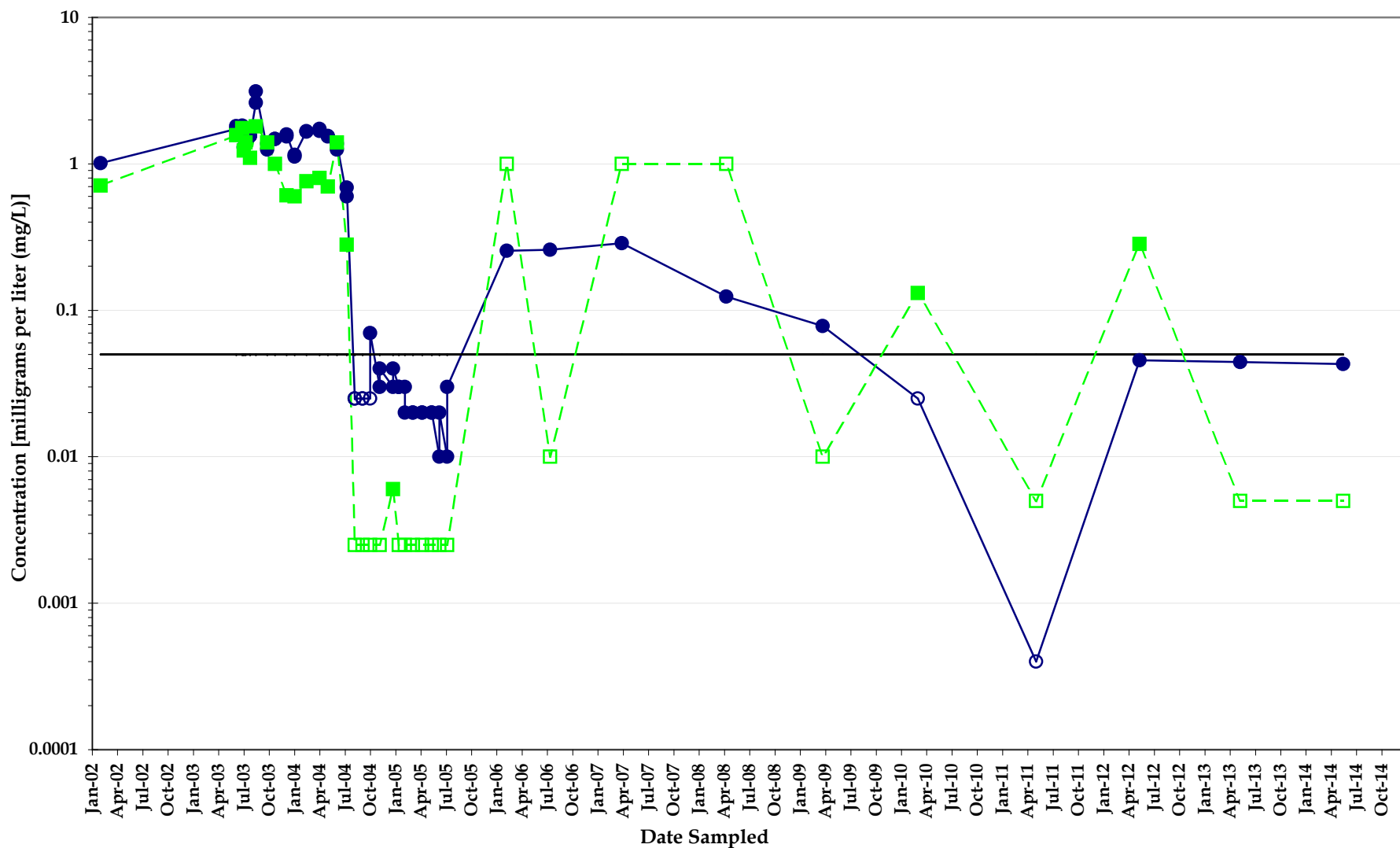


Chromium Concentrations Monitoring Well MW012A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

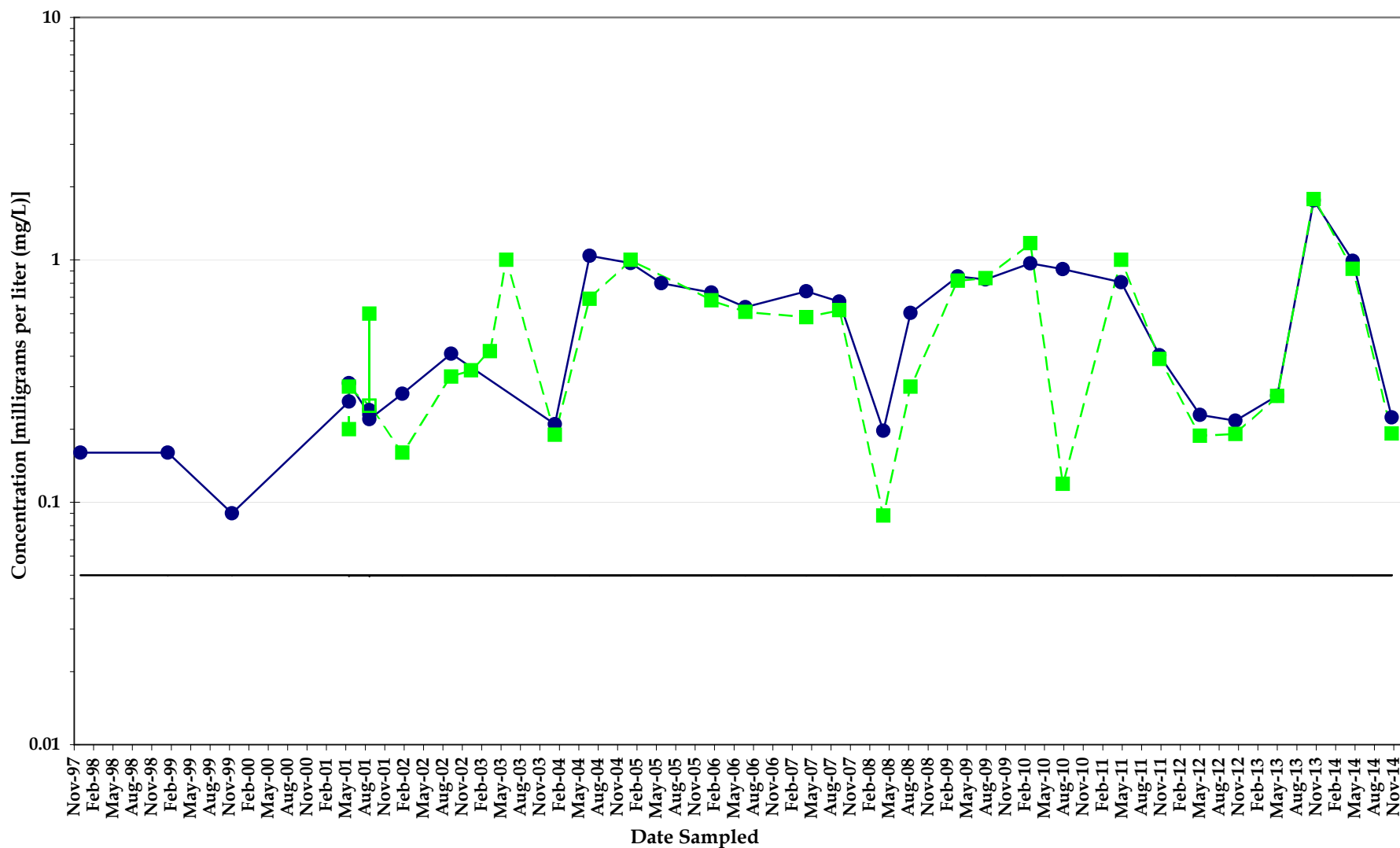


Chromium Concentrations Monitoring Well MW012M

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

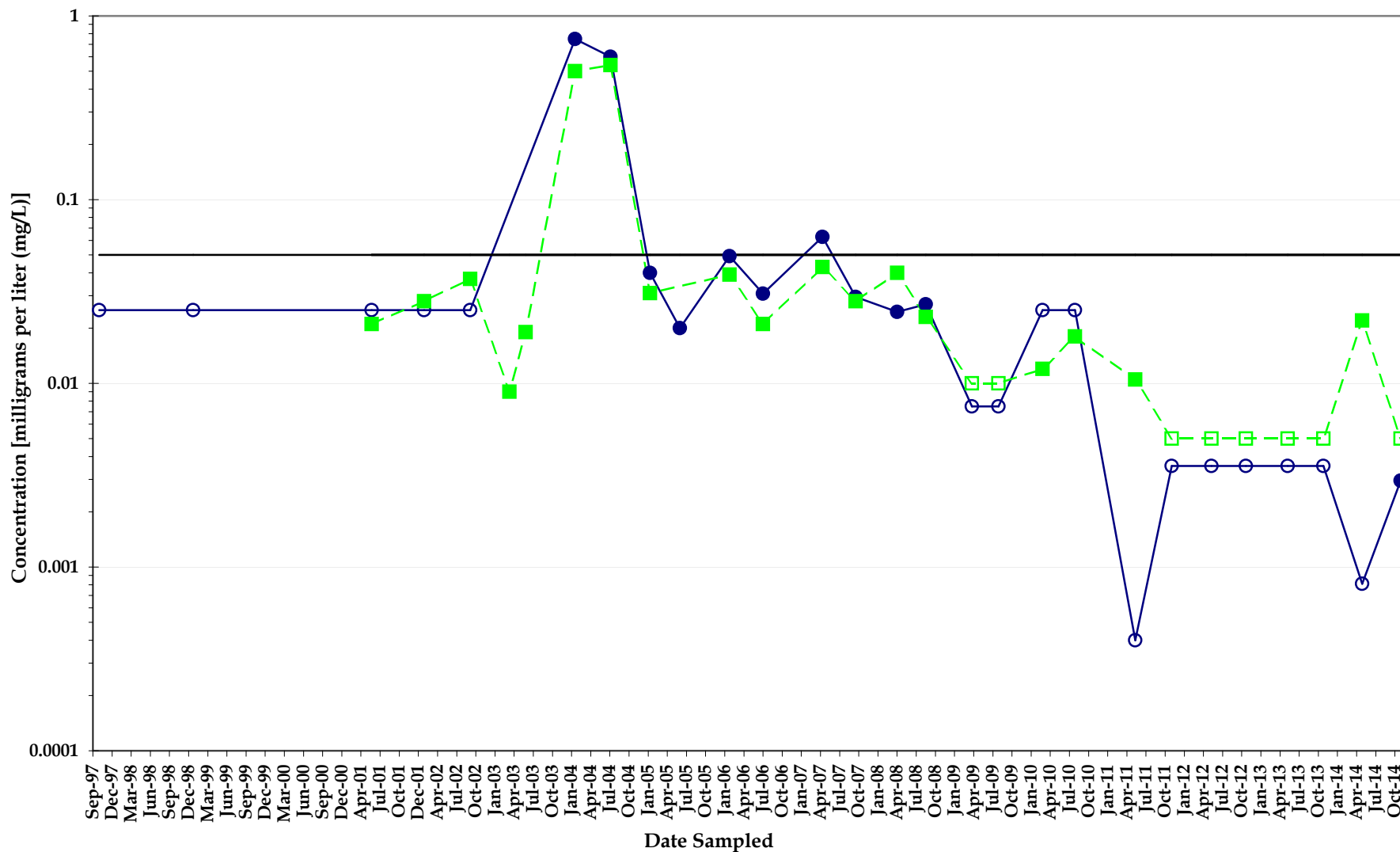


Chromium Concentrations Monitoring Well MW013

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

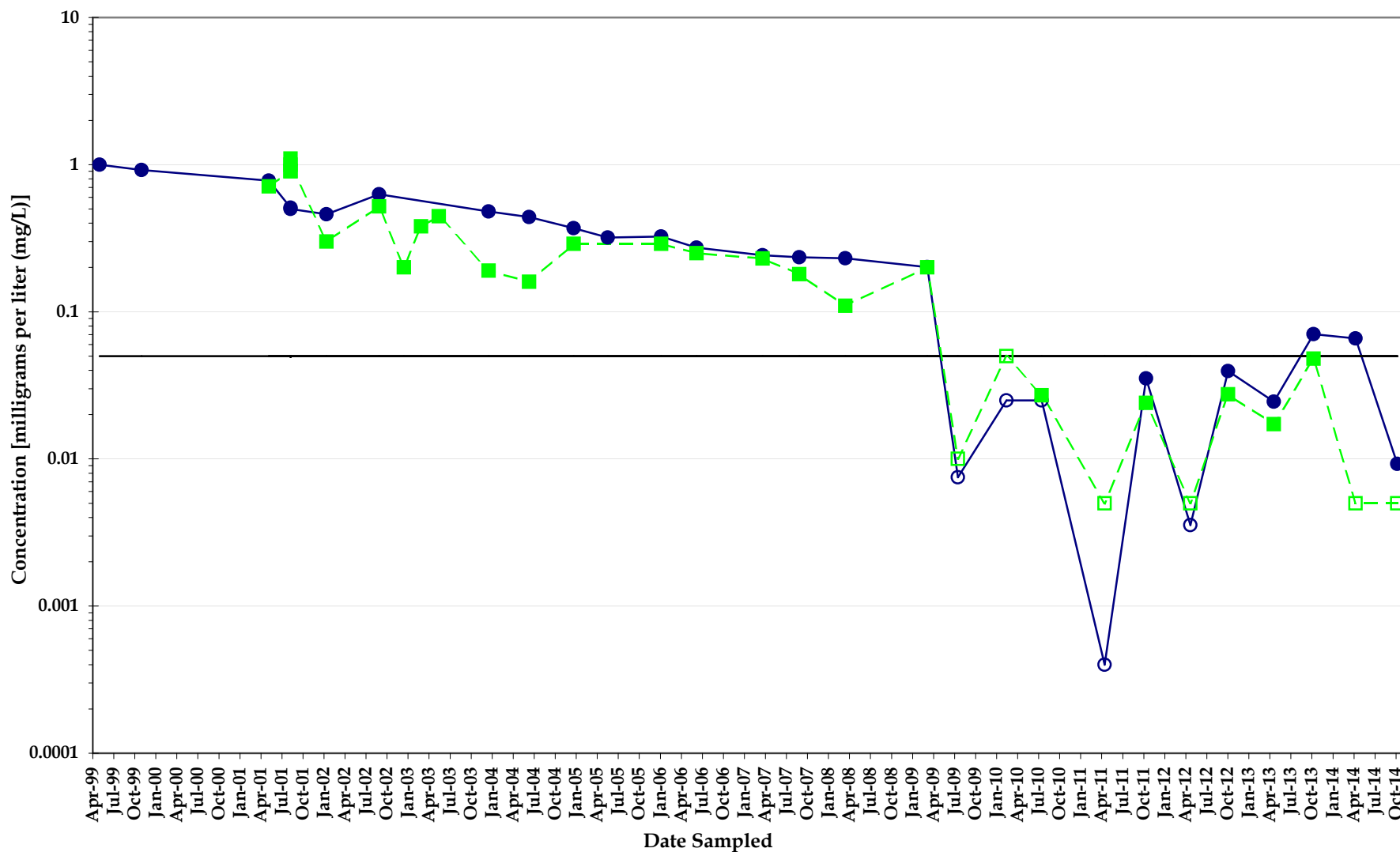


Chromium Concentrations Monitoring Well MW013A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

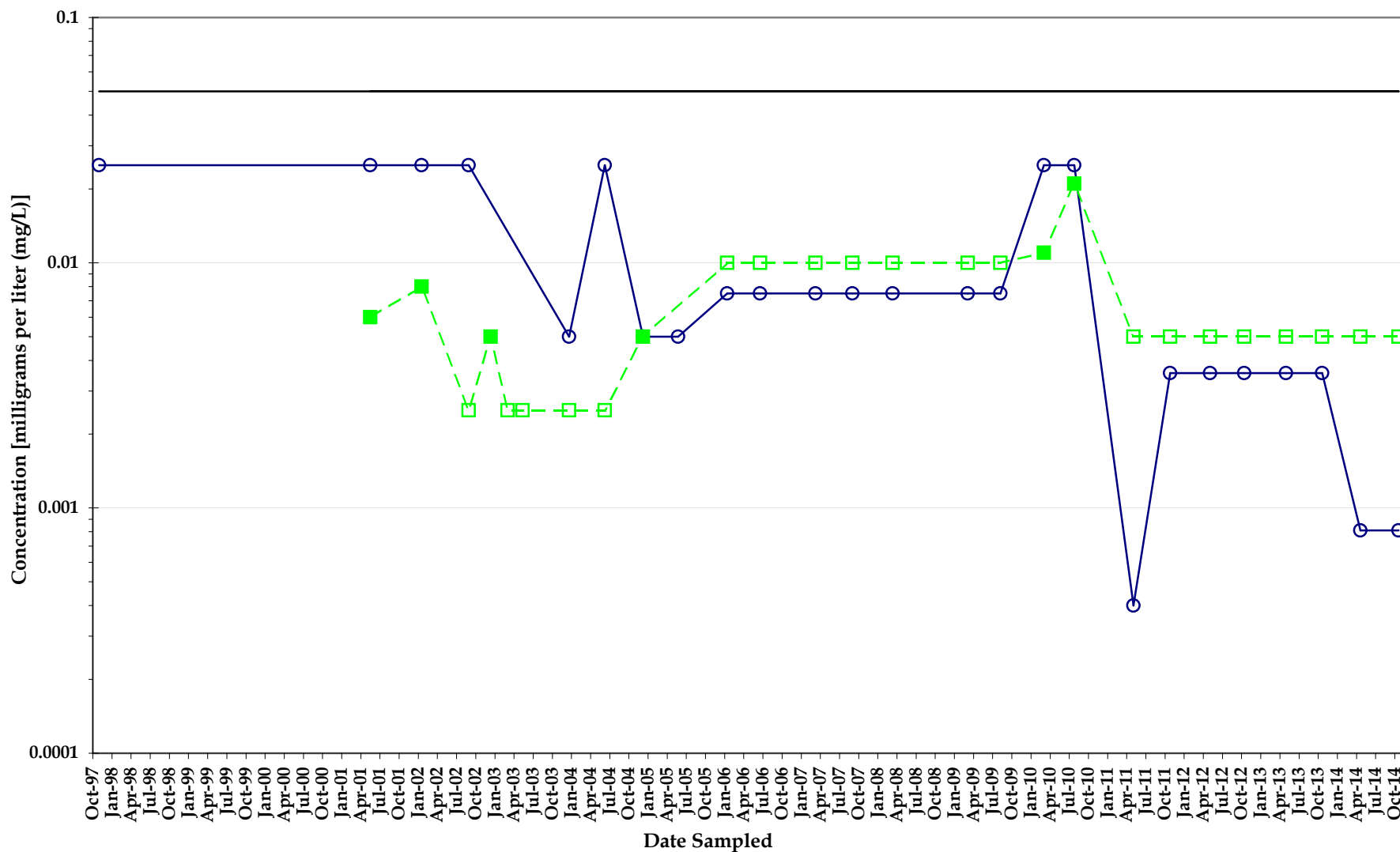


Chromium Concentrations Monitoring Well MW014

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

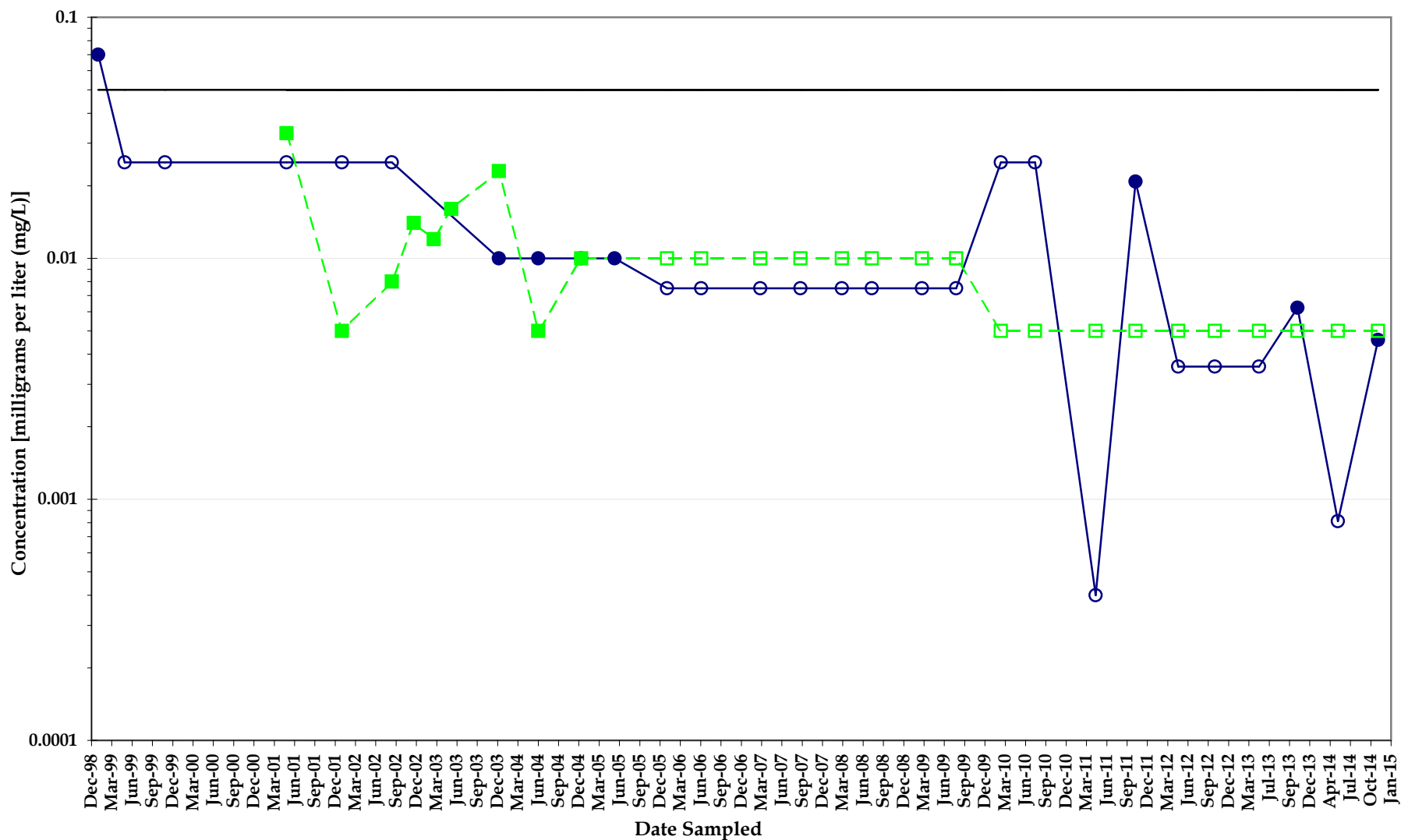


Chromium Concentrations Monitoring Well MW014A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

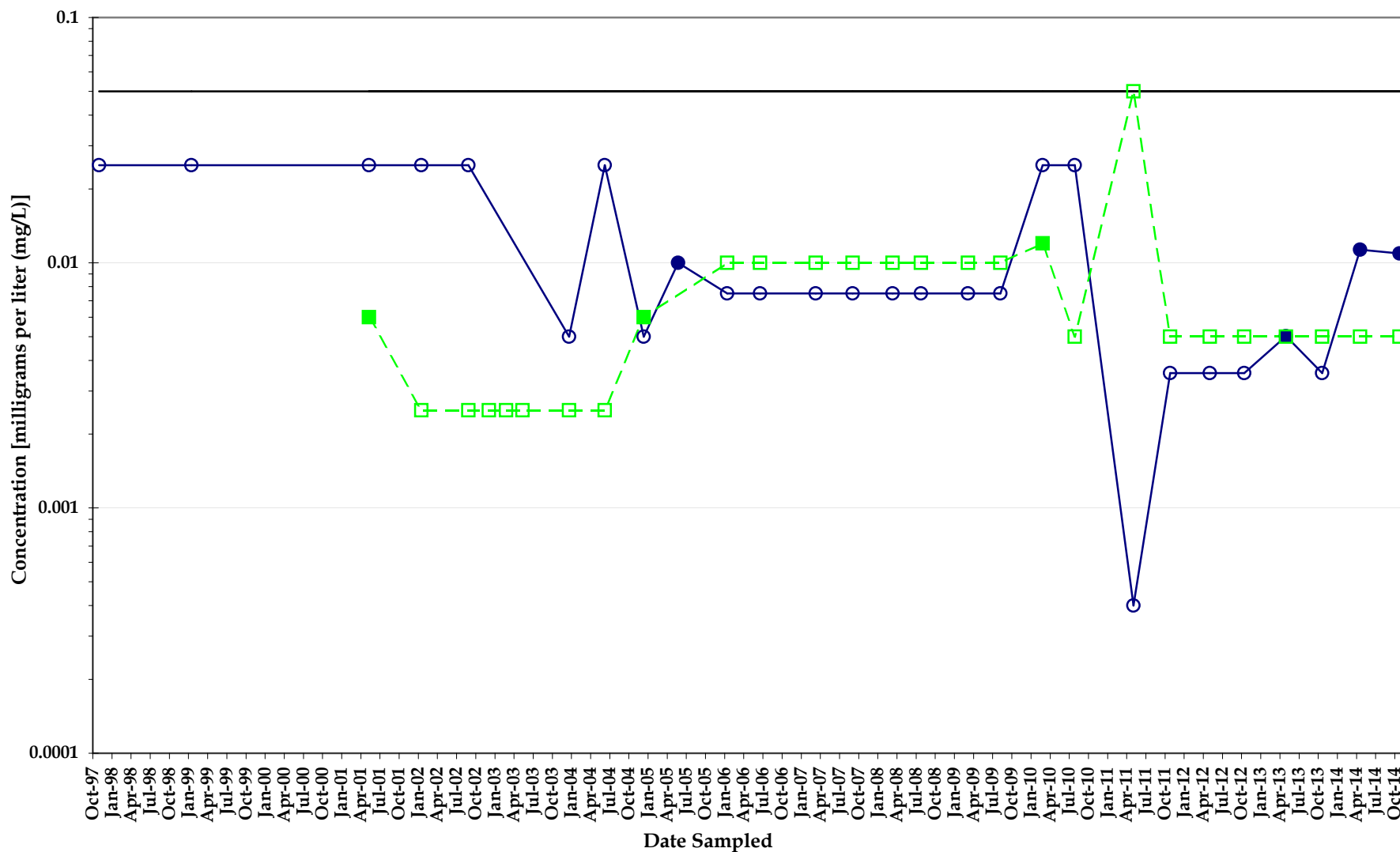


Chromium Concentrations Monitoring Well MW015

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

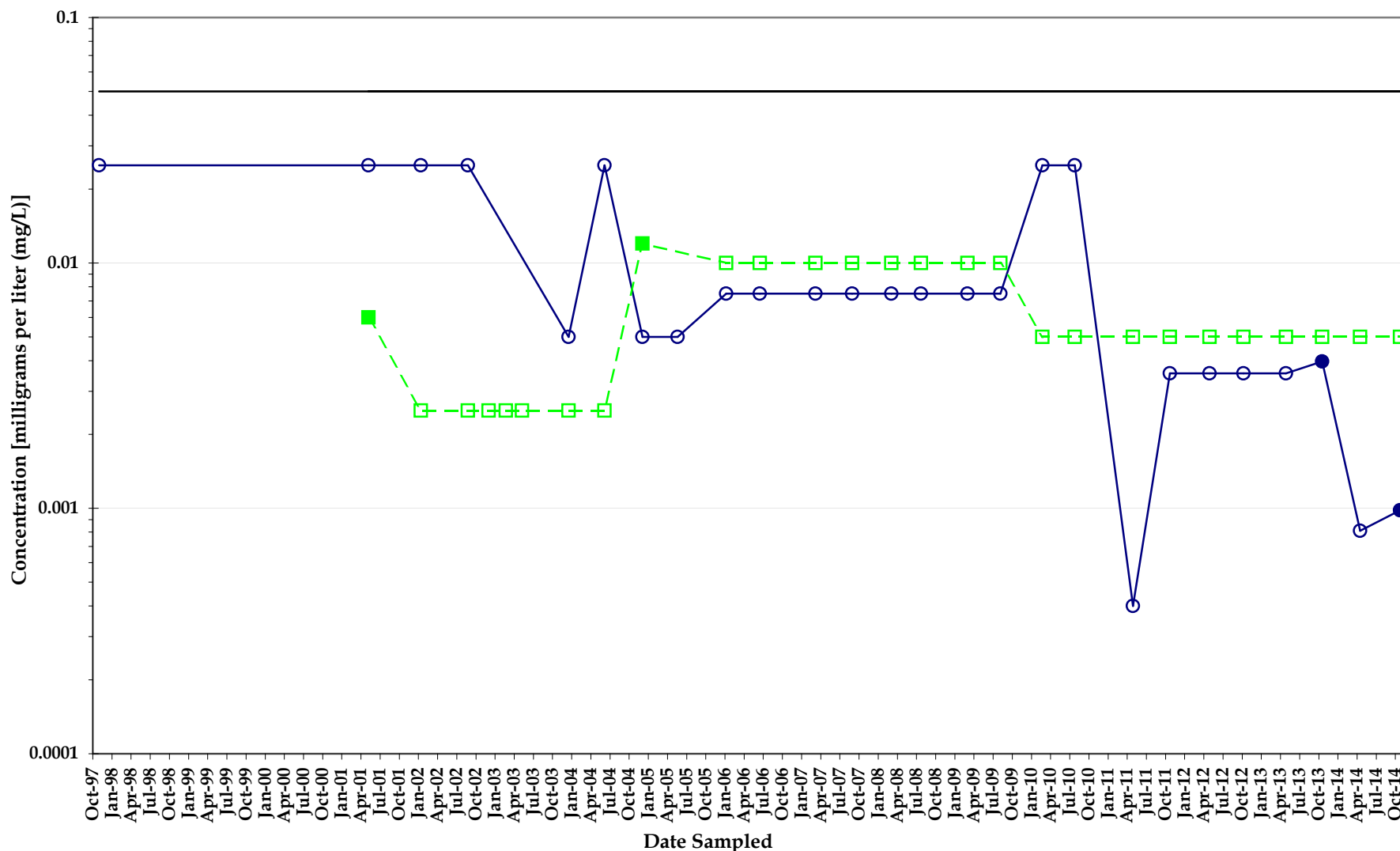


Chromium Concentrations Monitoring Well MW015A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

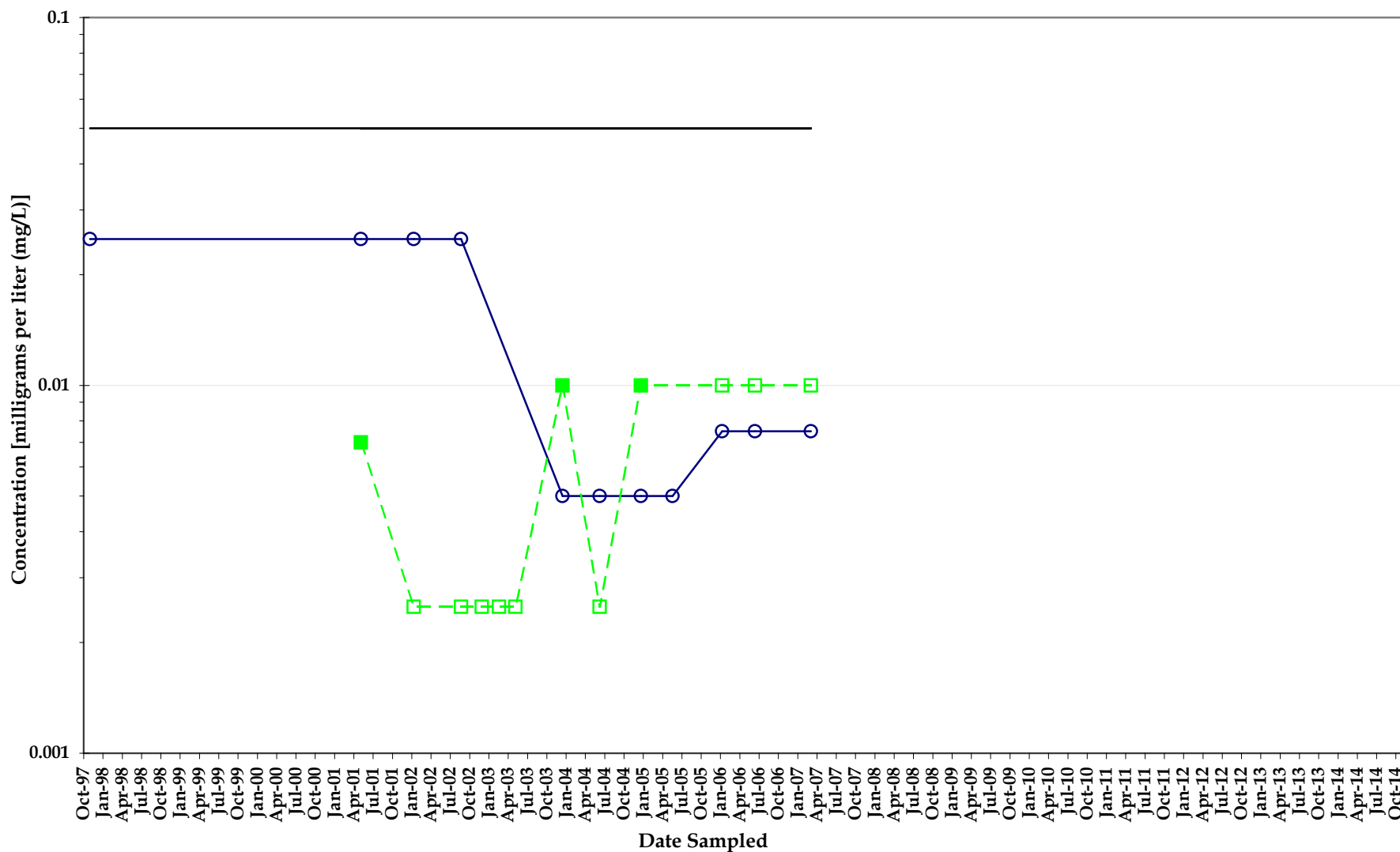


Chromium Concentrations Monitoring Well MW016A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

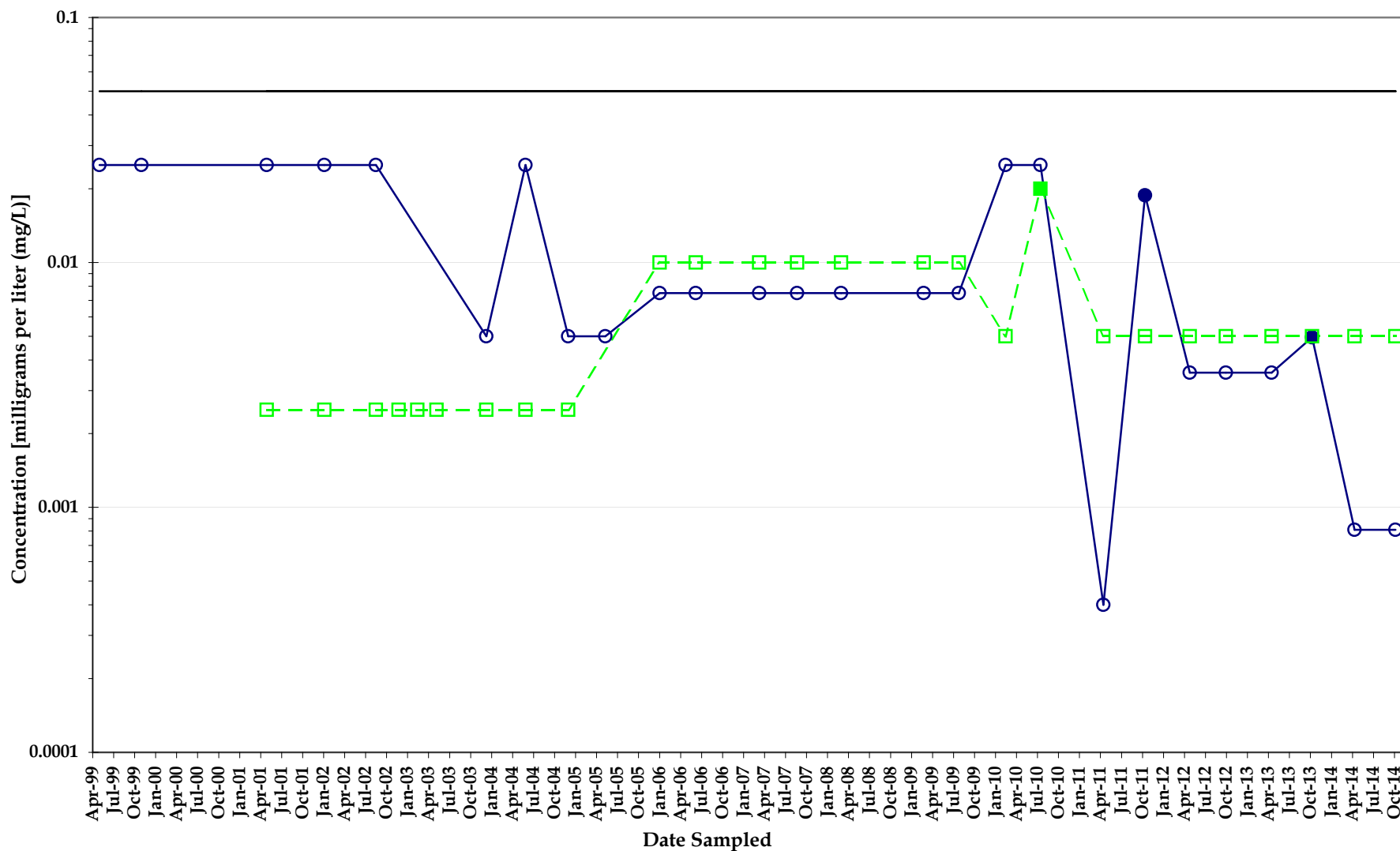


Chromium Concentrations Monitoring Well MW017A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

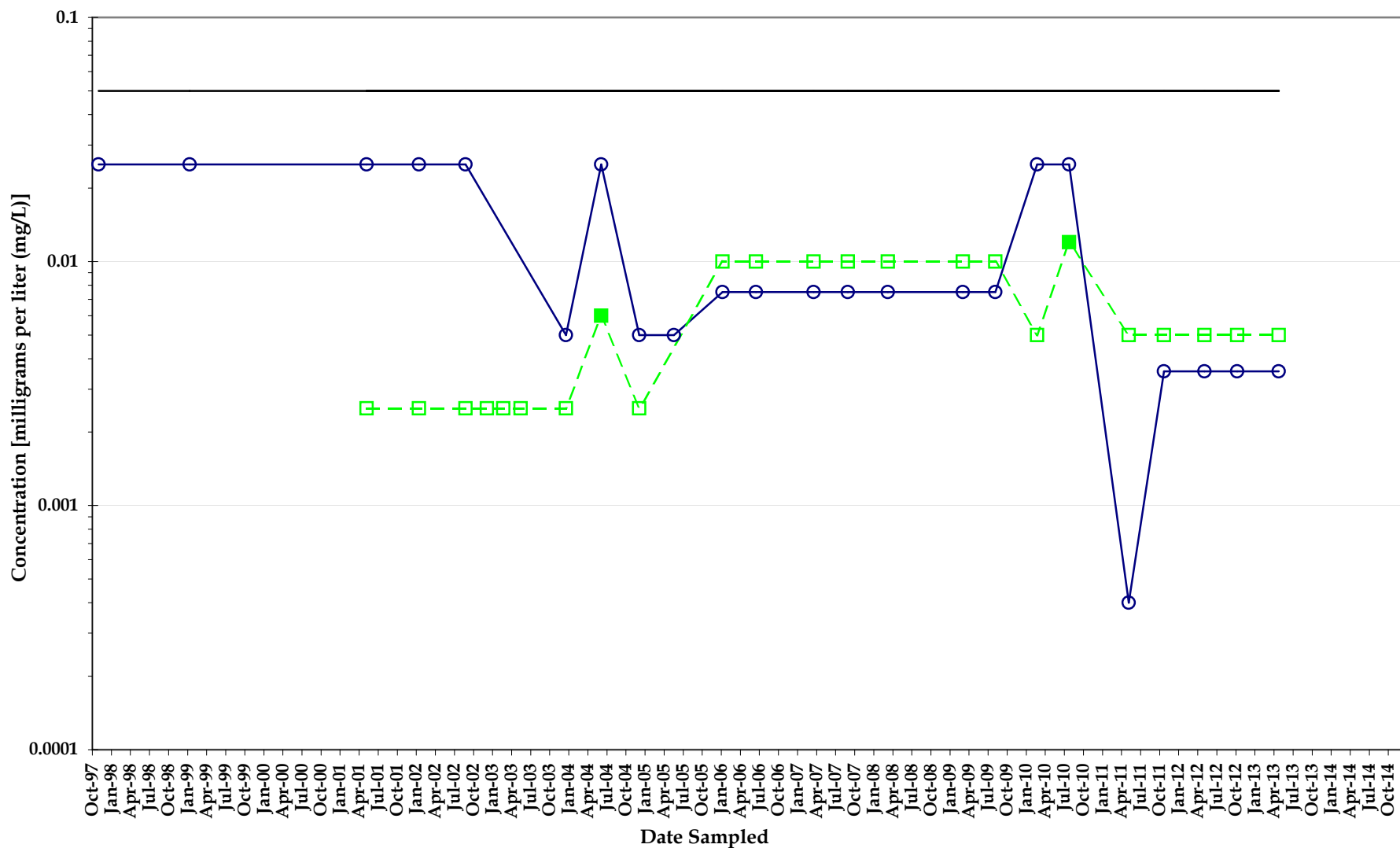


Chromium Concentrations Monitoring Well MW018

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

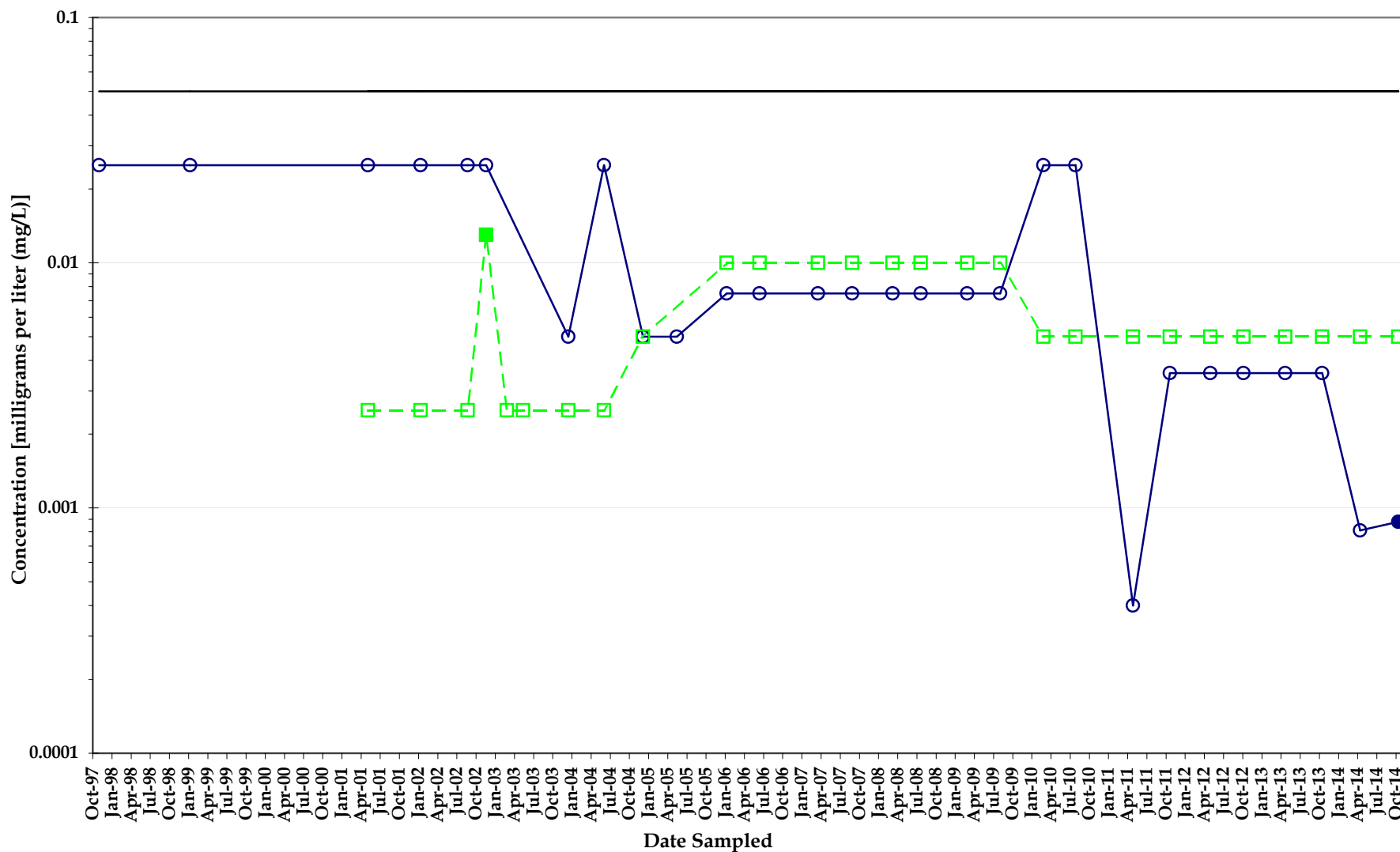


Chromium Concentrations Monitoring Well MW018A

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

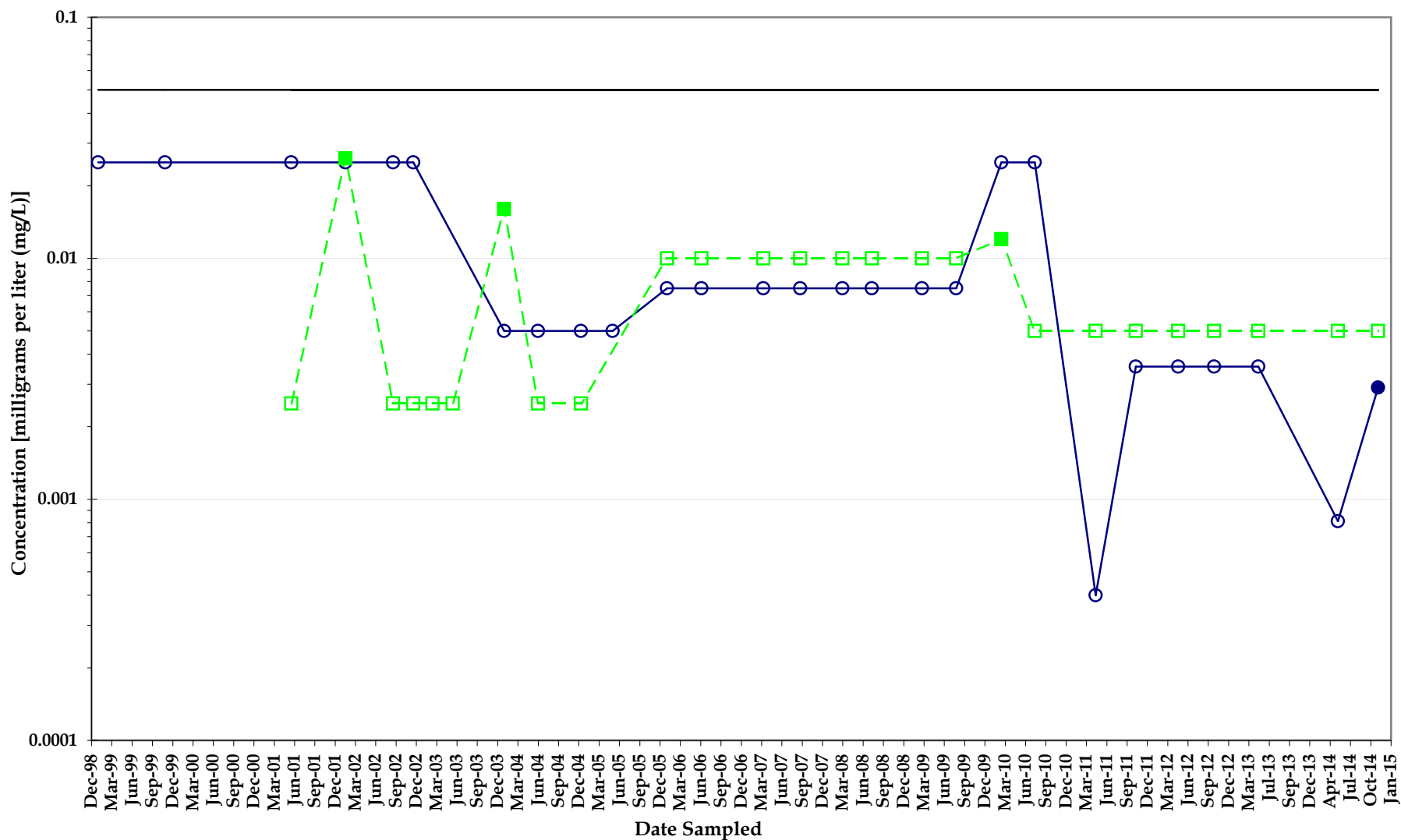


Chromium Concentrations Monitoring Well MW019A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

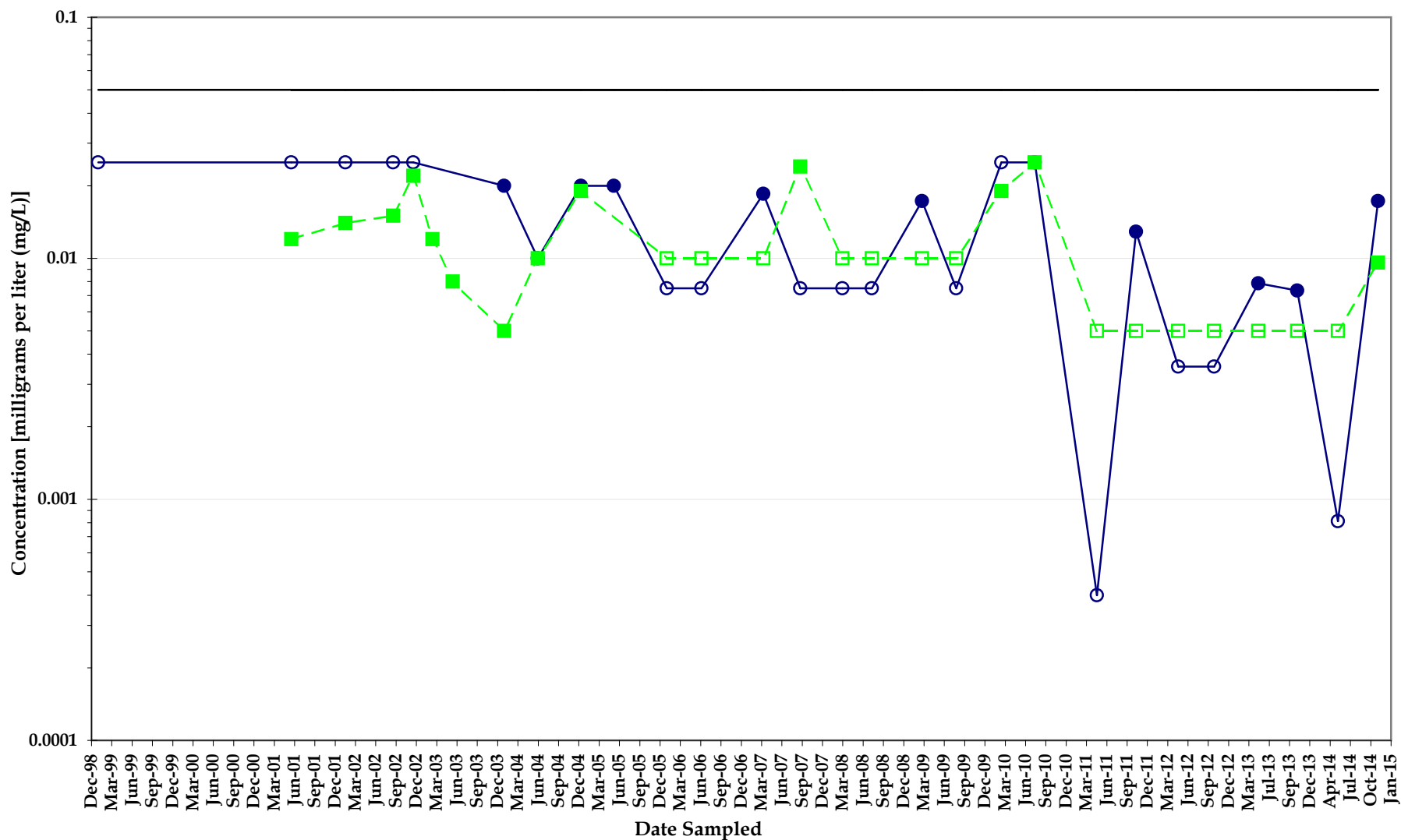


Chromium Concentrations Monitoring Well MW020

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

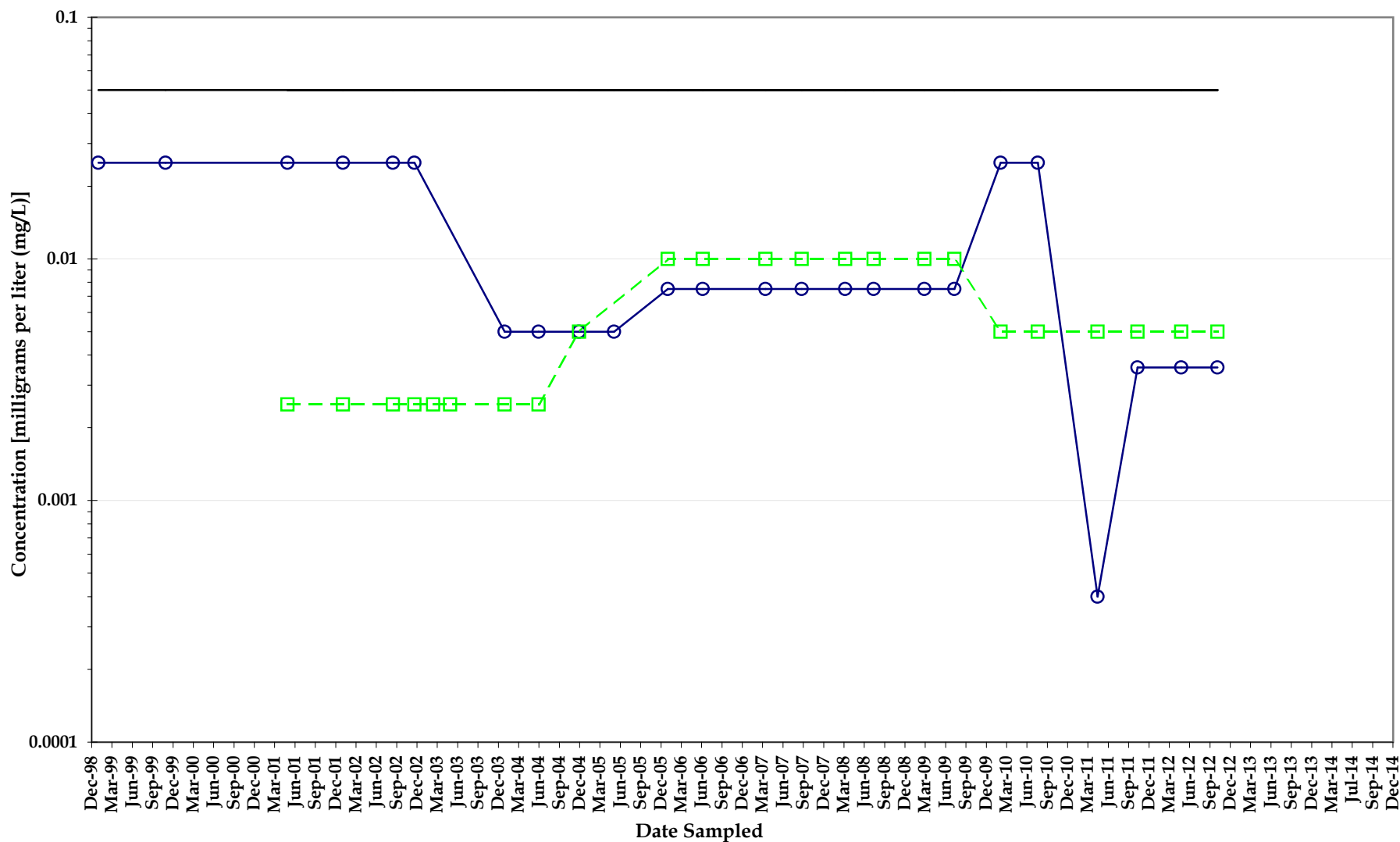


Chromium Concentrations Monitoring Well MW020A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

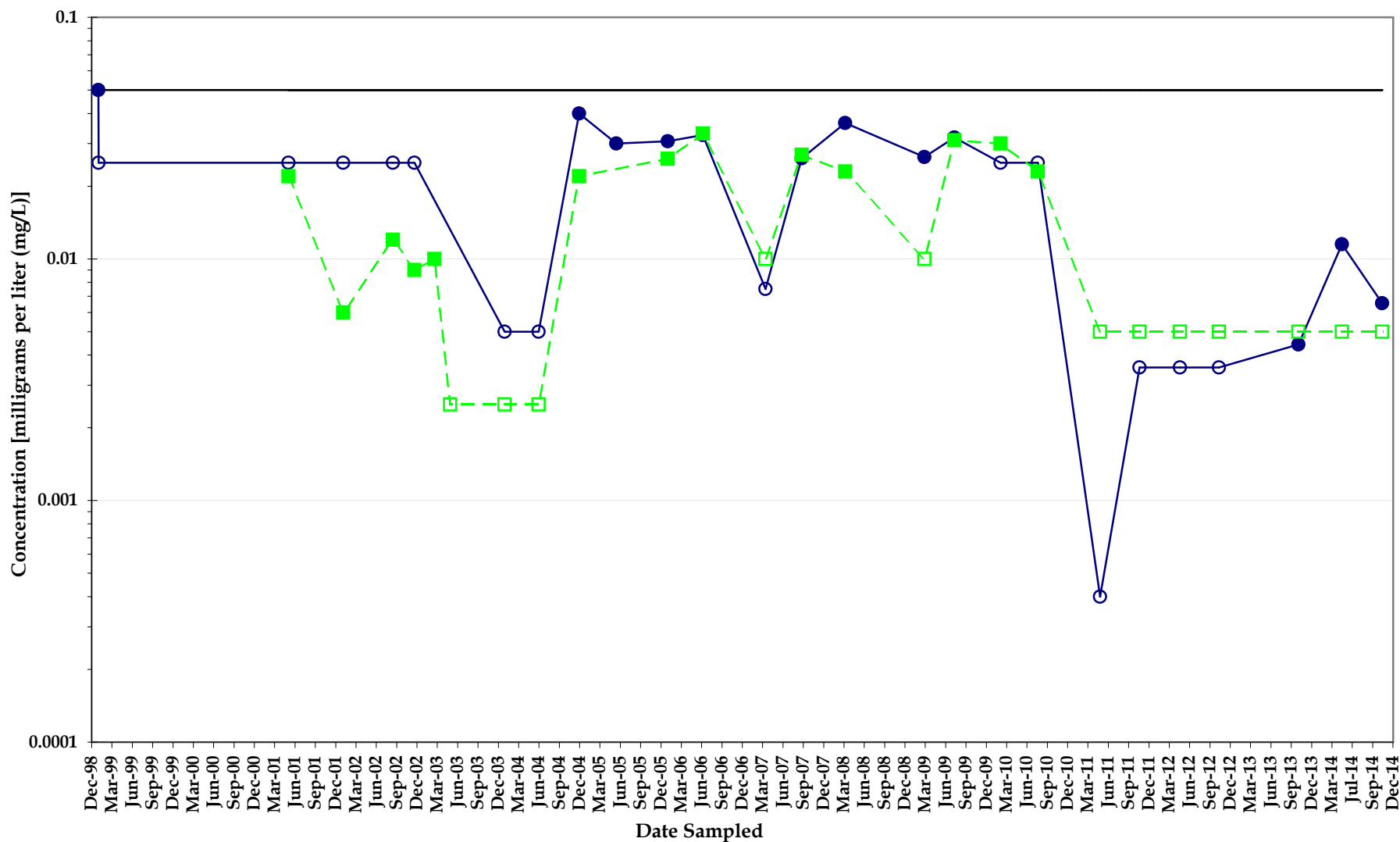


Chromium Concentrations Monitoring Well MW021

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

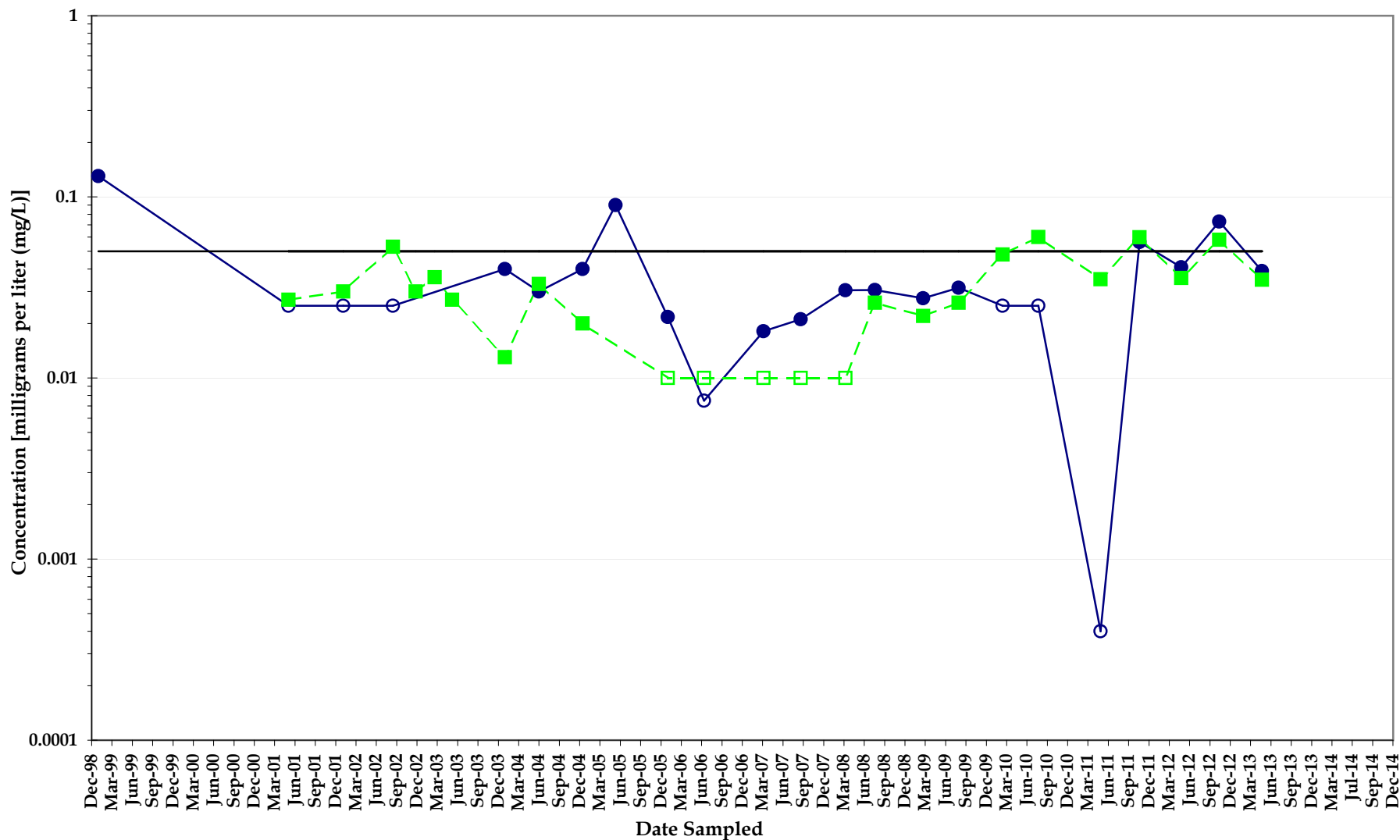


Chromium Concentrations Monitoring Well MW021A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



Chromium (Solid Blue Line) Detects (Filled Symbols) Non-Detects (Open Symbols) NMWQCC (Horizontal Line)

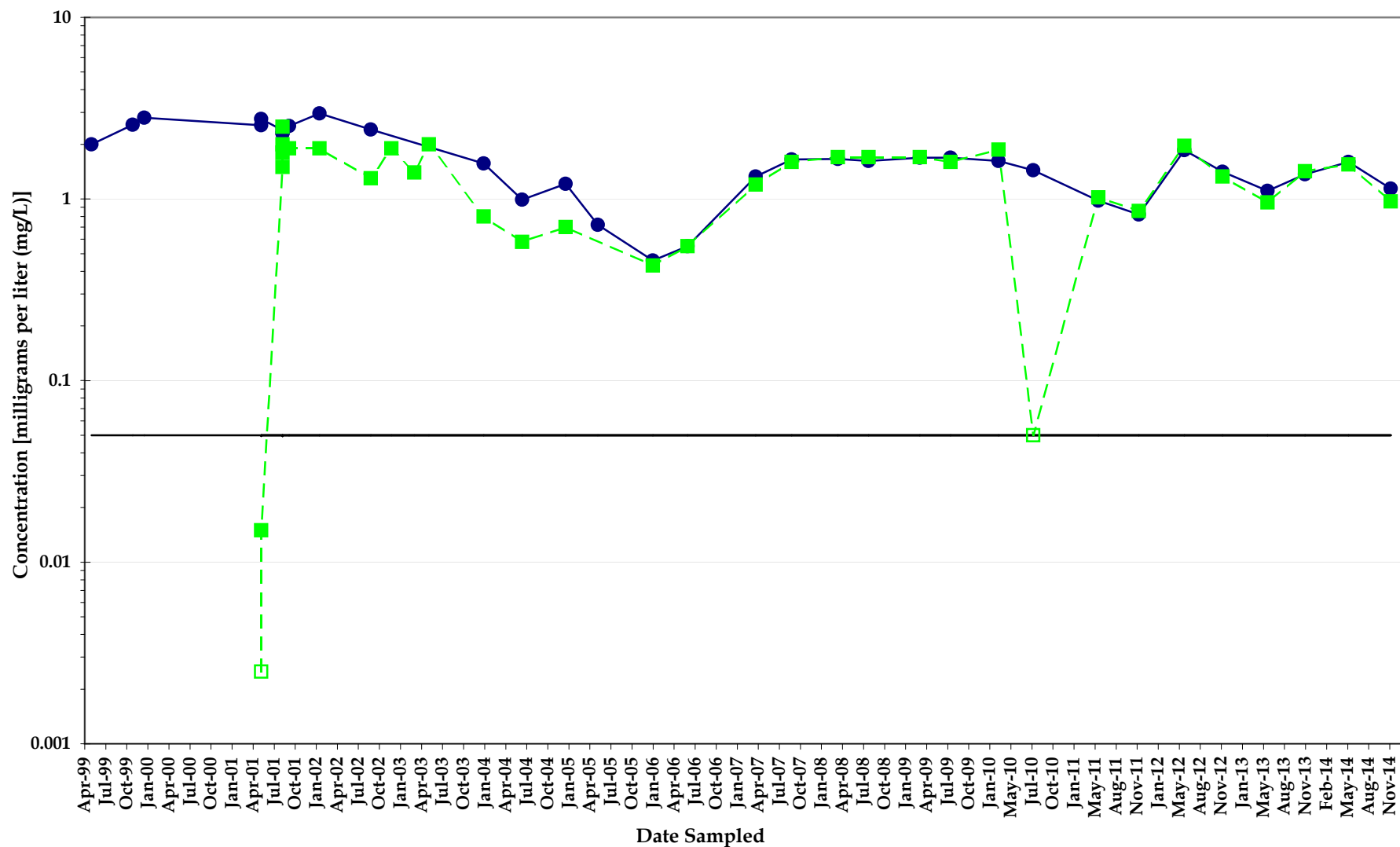
Hexavalent Chromium (Dashed Green Line) Detects (Filled Symbols) Non-Detects (Open Symbols)

Chromium Concentrations Monitoring Well MW022A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

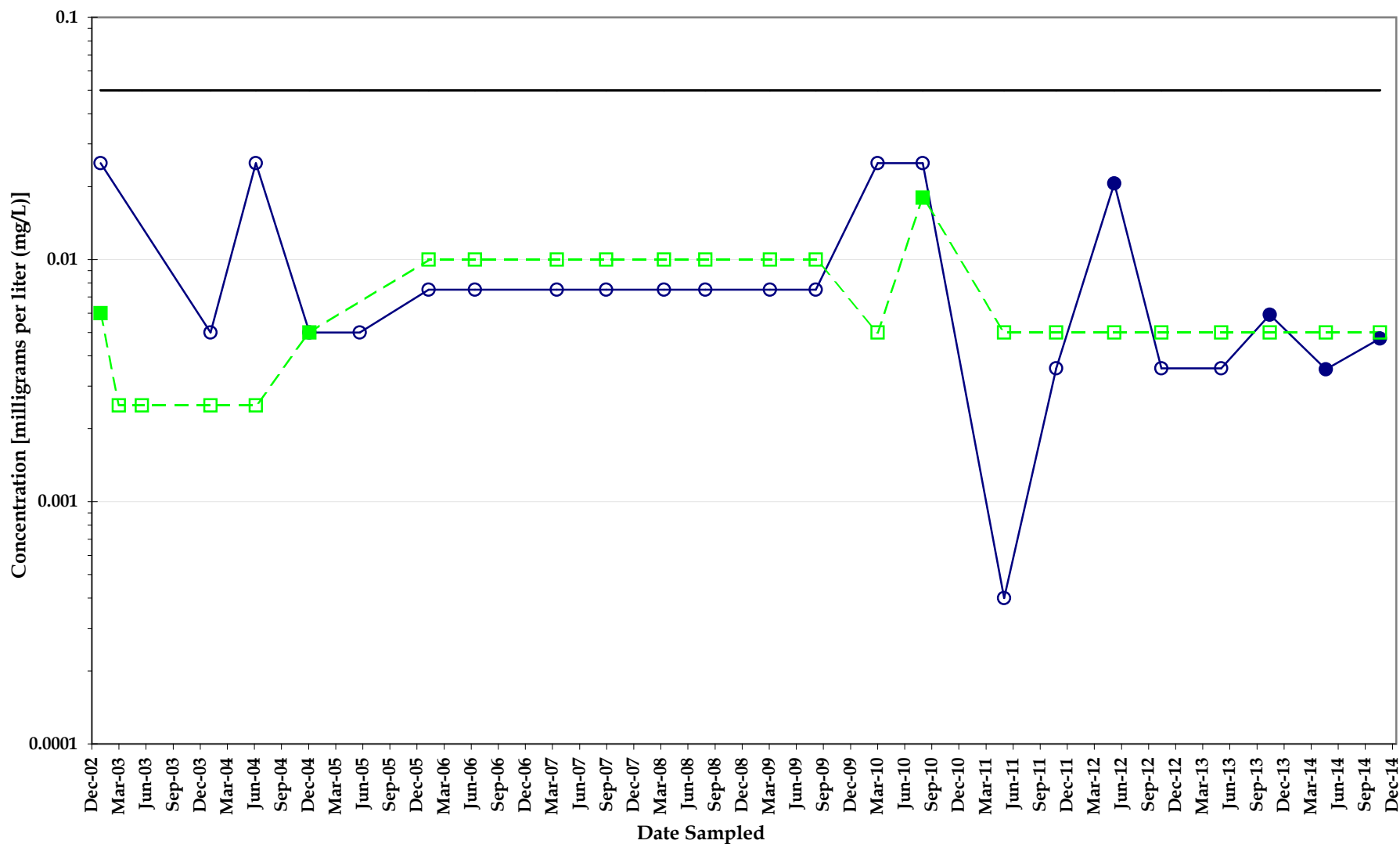


Chromium Concentrations Monitoring Well MW023

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

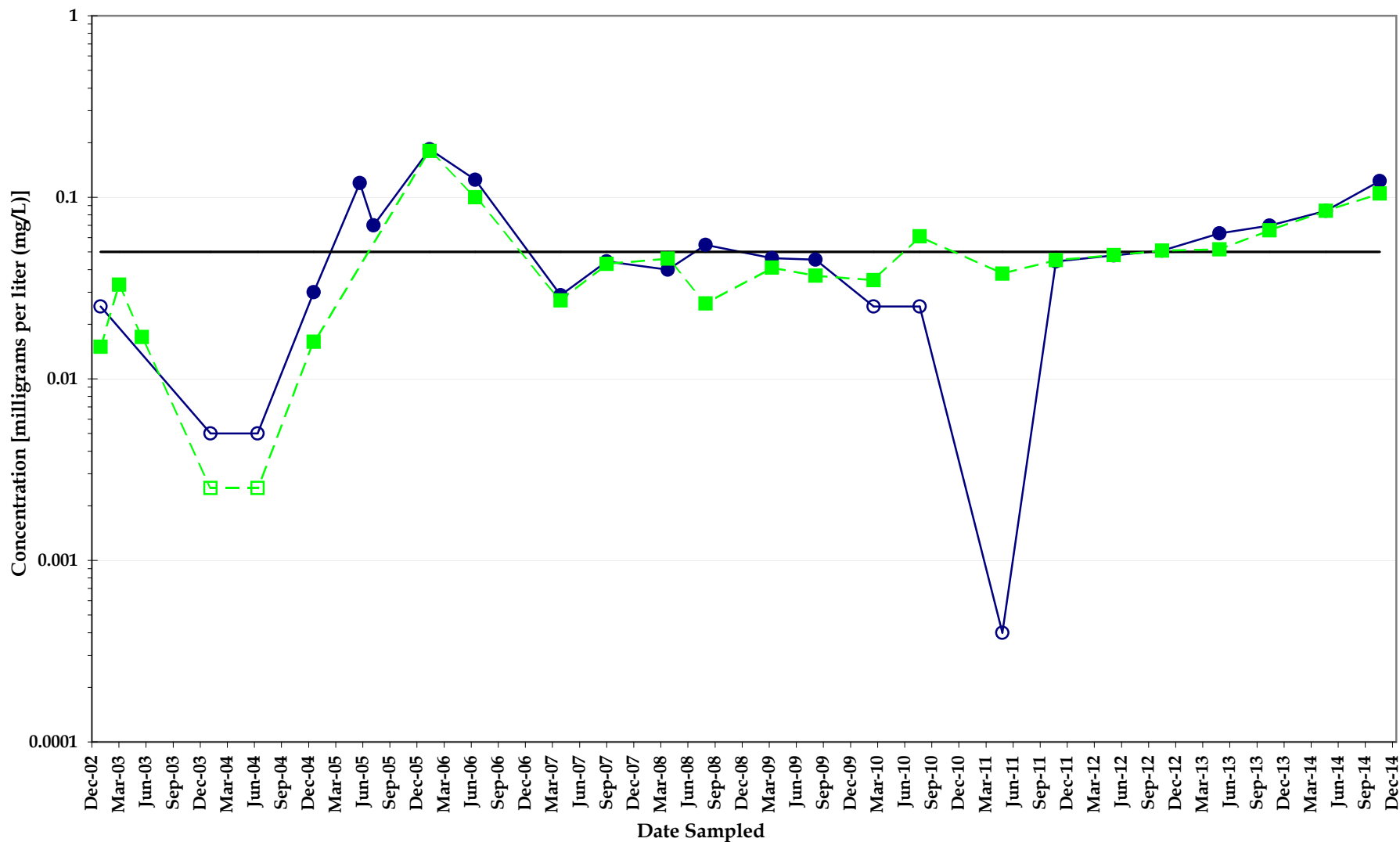


Chromium Concentrations Monitoring Well MW023A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

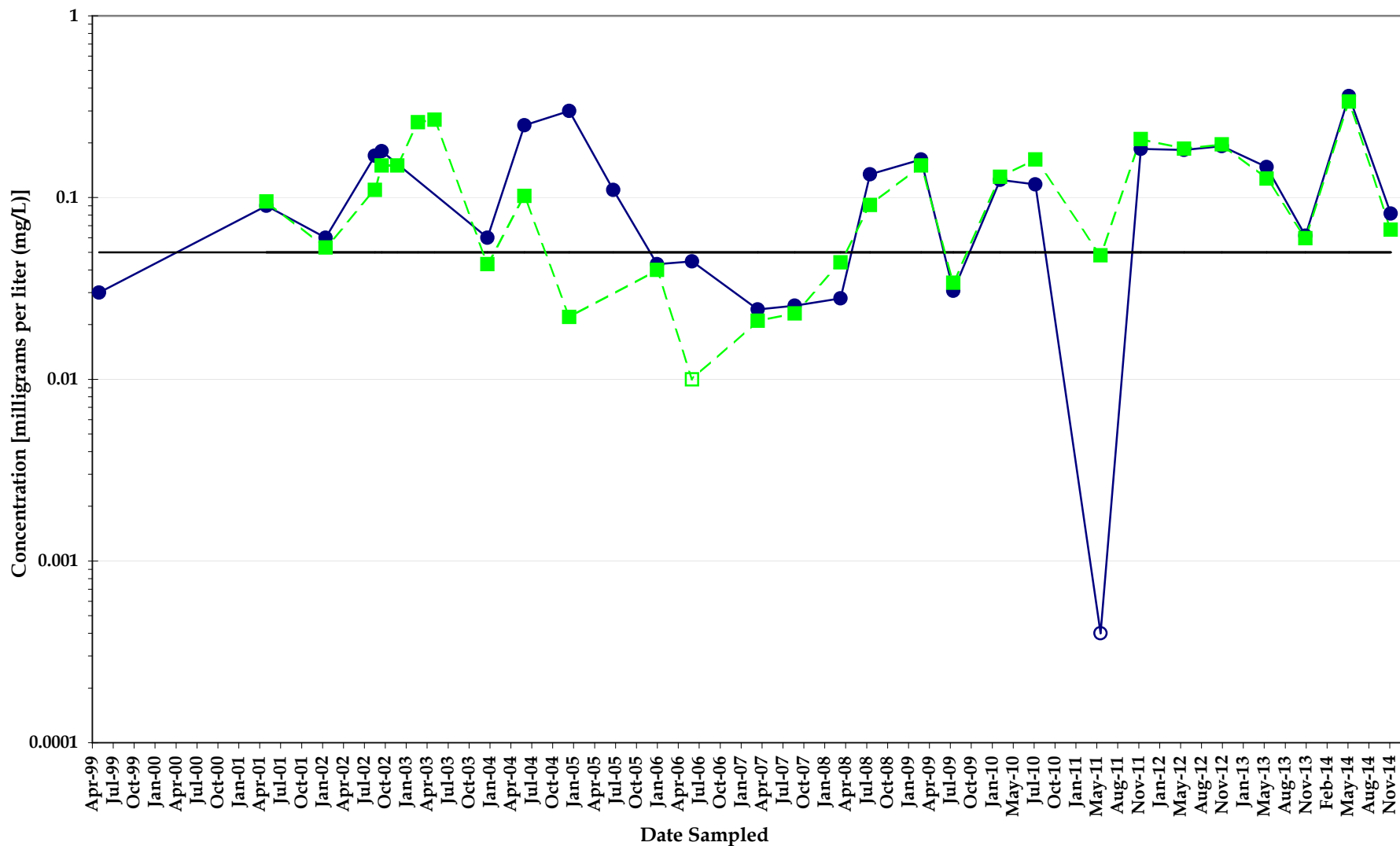


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW024

North Eunice Gas Plant
Lea County, New Mexico



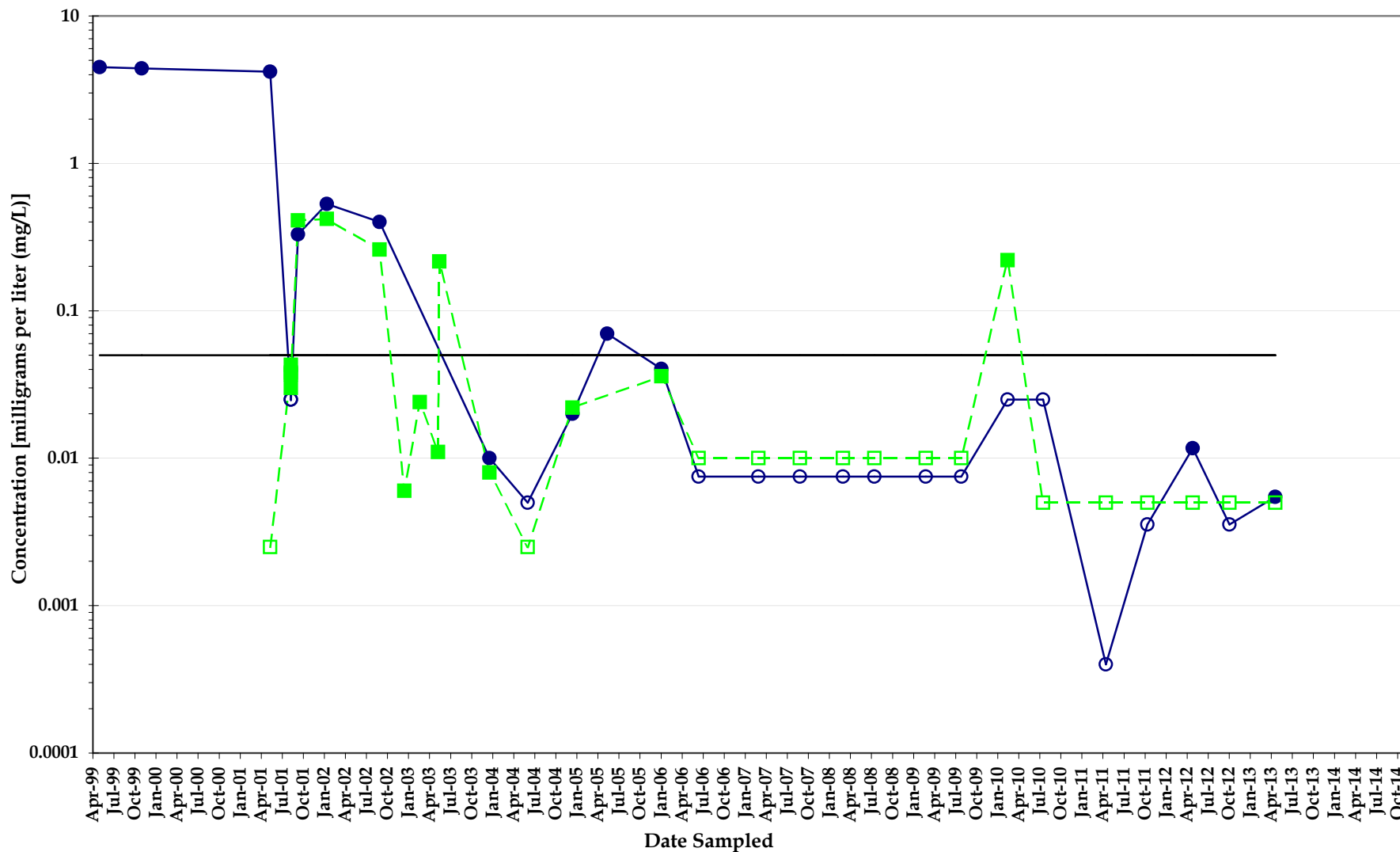


Chromium Concentrations Monitoring Well MW024A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

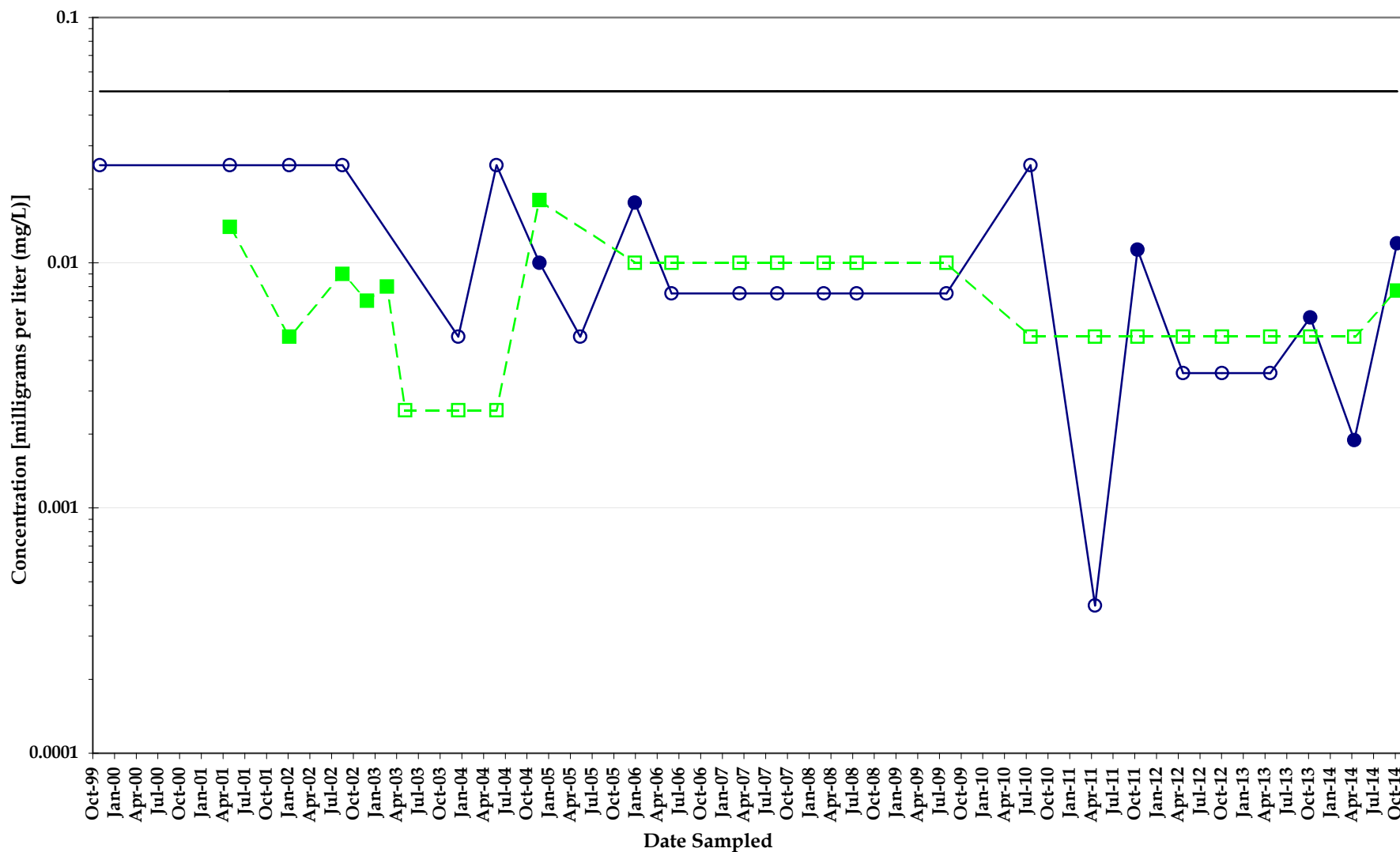


Chromium Concentrations Monitoring Well MW025

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

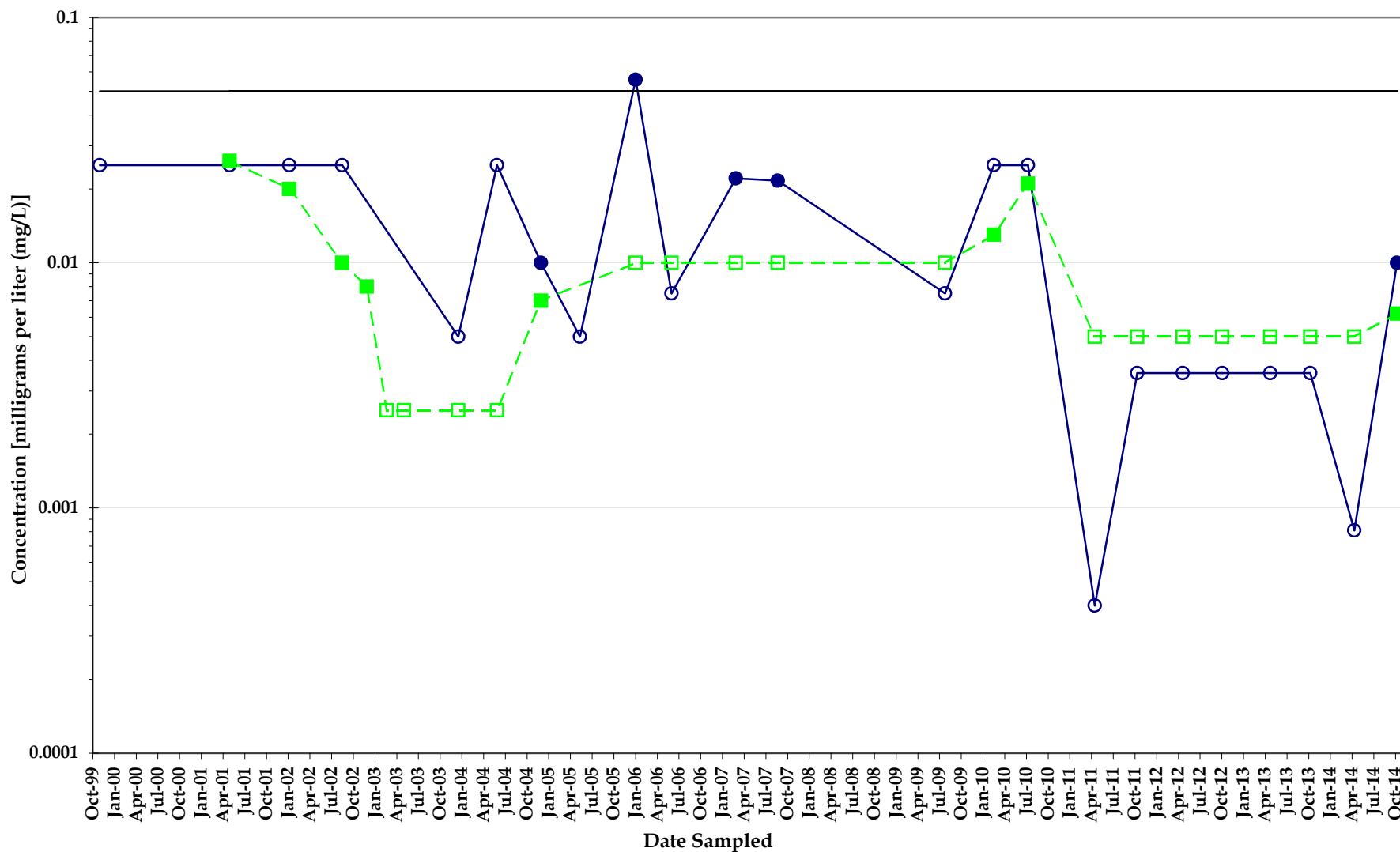


Chromium Concentrations Monitoring Well MW026

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

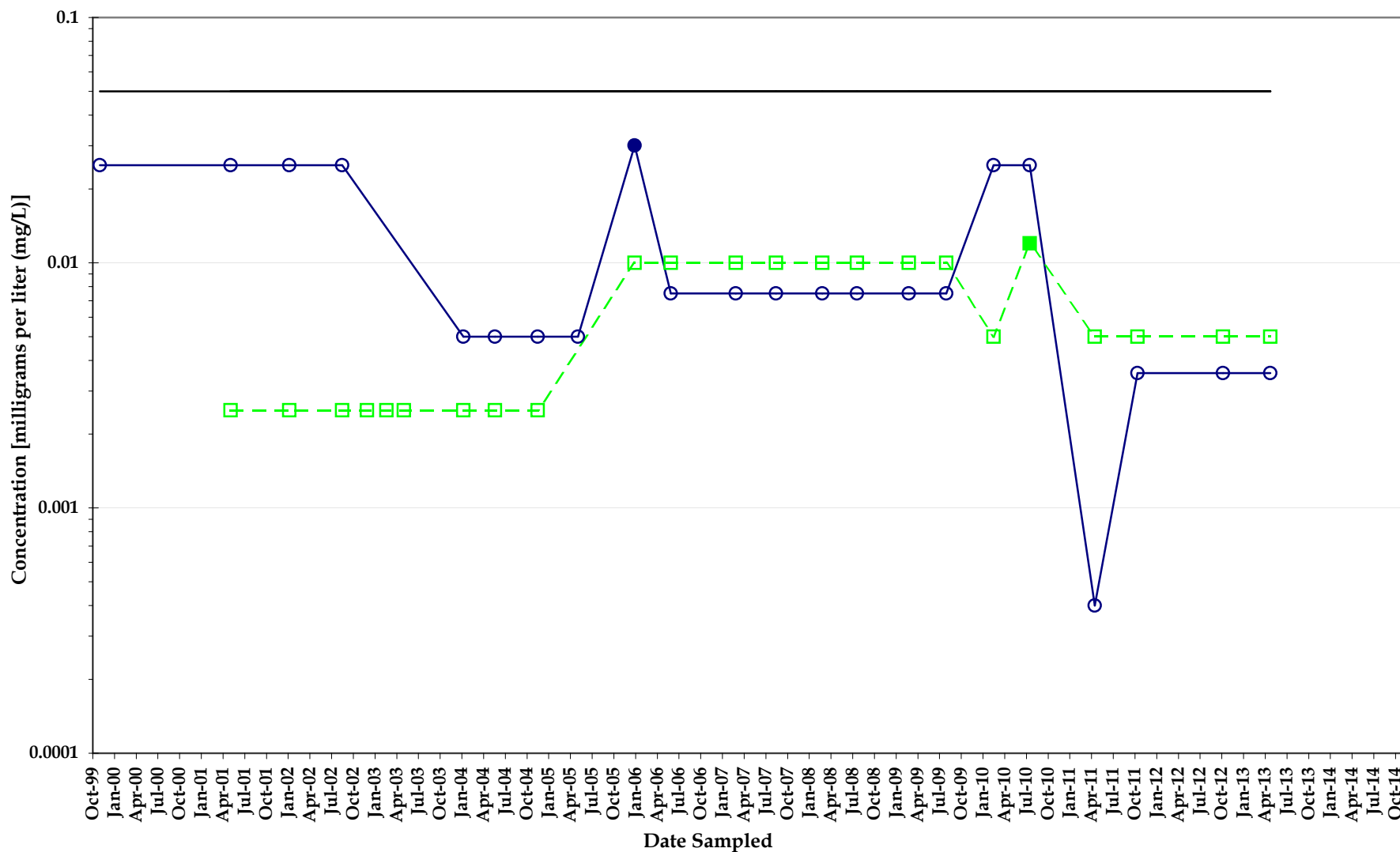


Chromium Concentrations Monitoring Well MW027

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

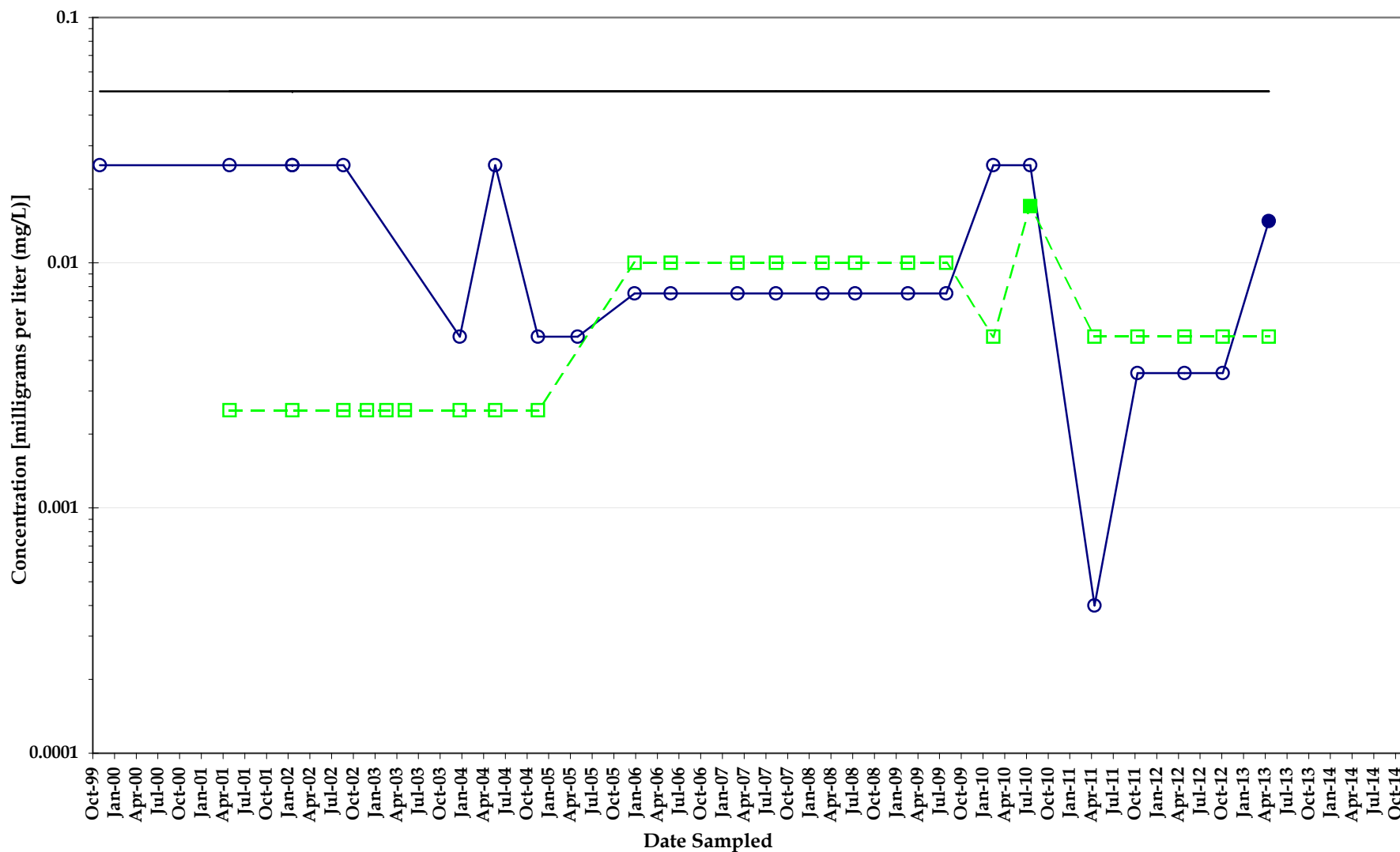


Chromium Concentrations Monitoring Well MW028

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

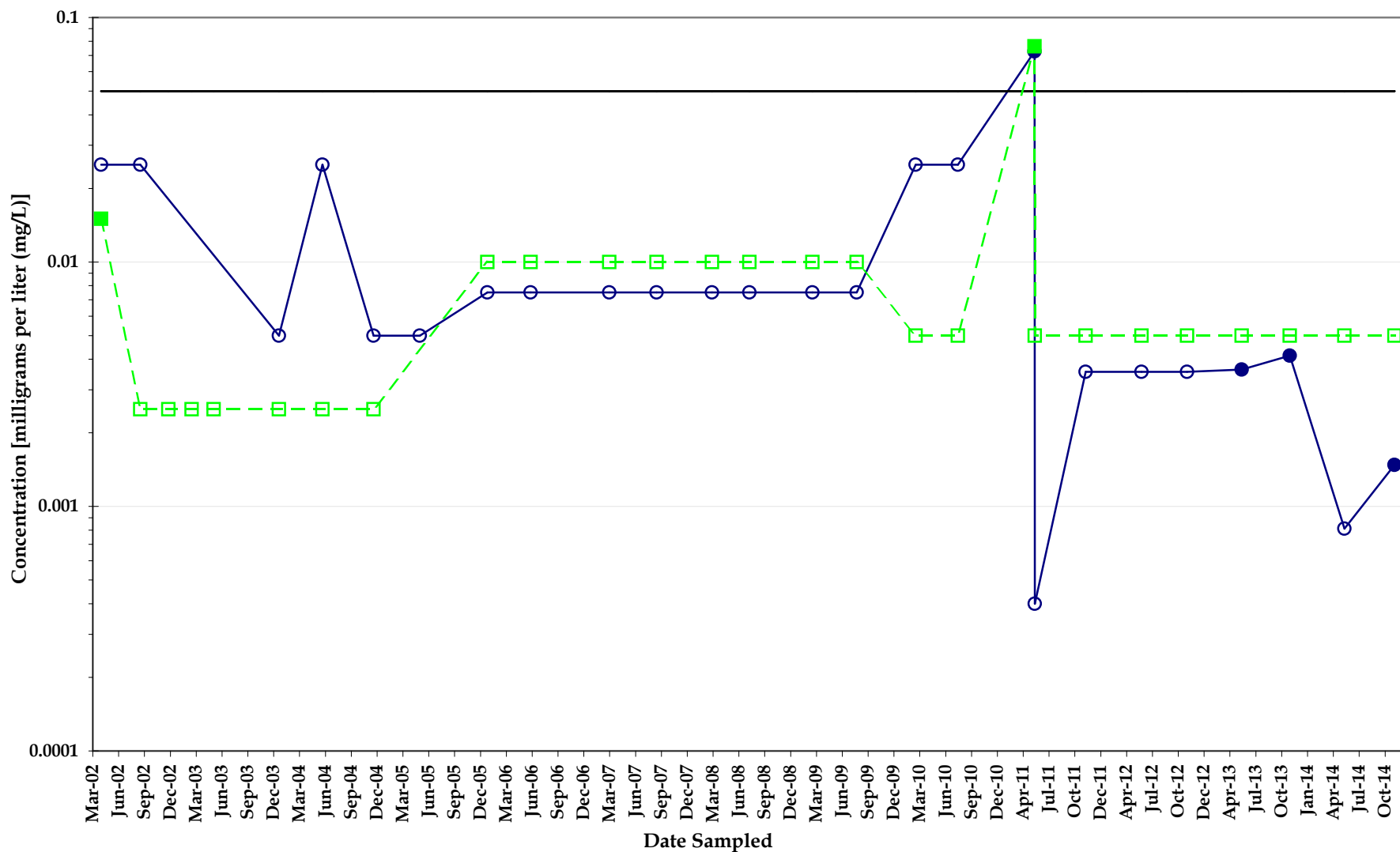


Chromium Concentrations Monitoring Well MW029

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

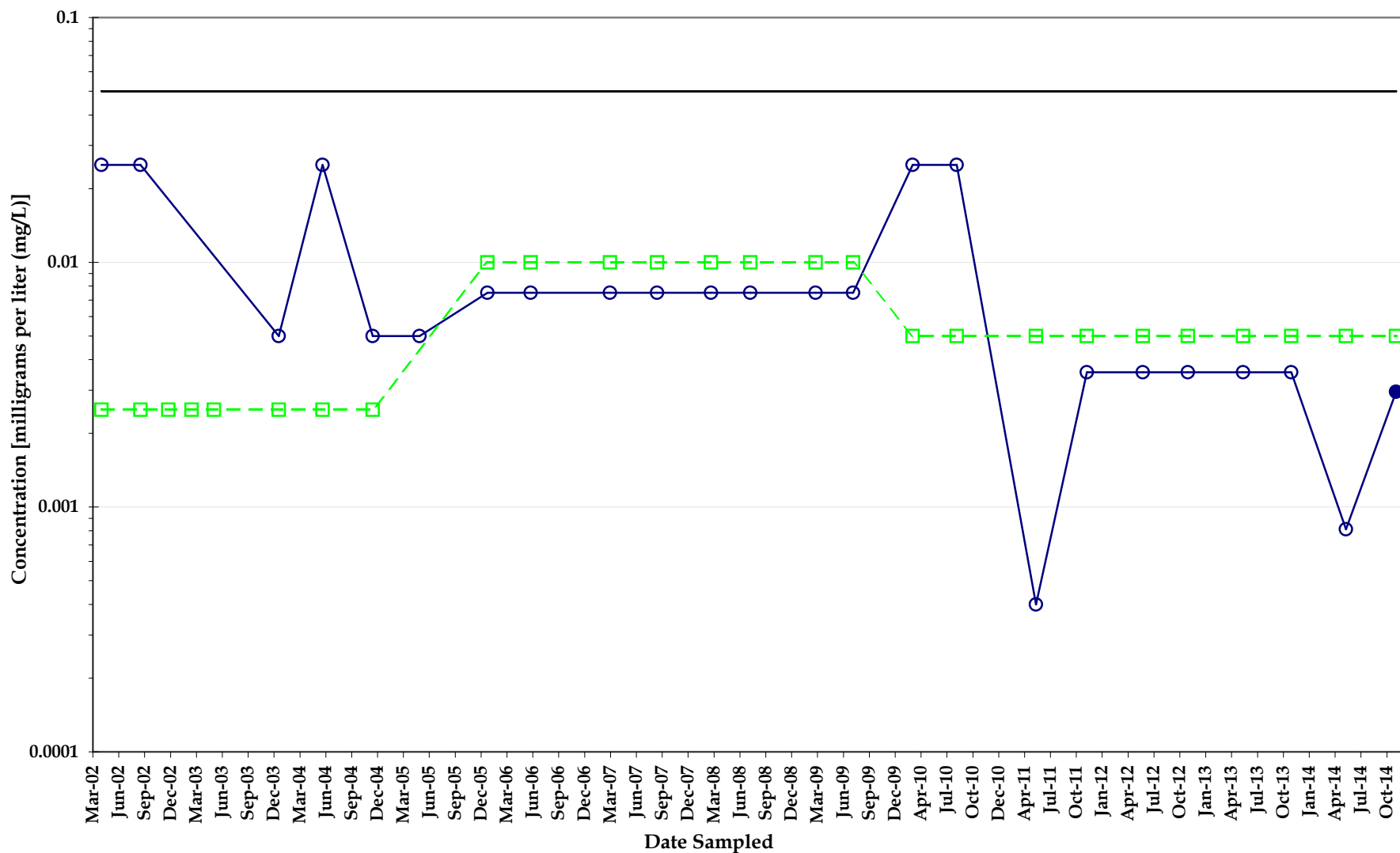


Chromium Concentrations Monitoring Well MW030

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

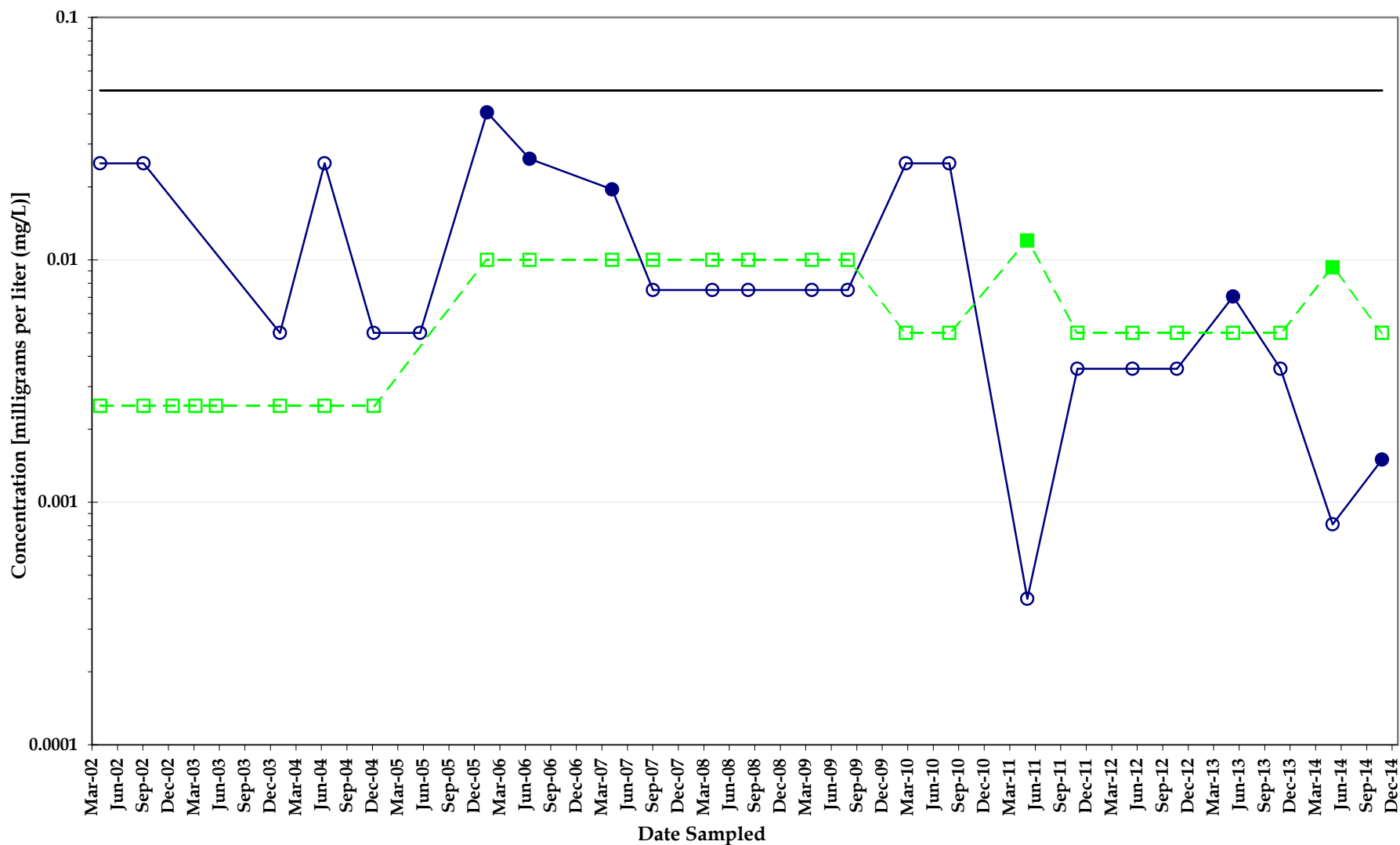


Chromium Concentrations Monitoring Well MW031

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

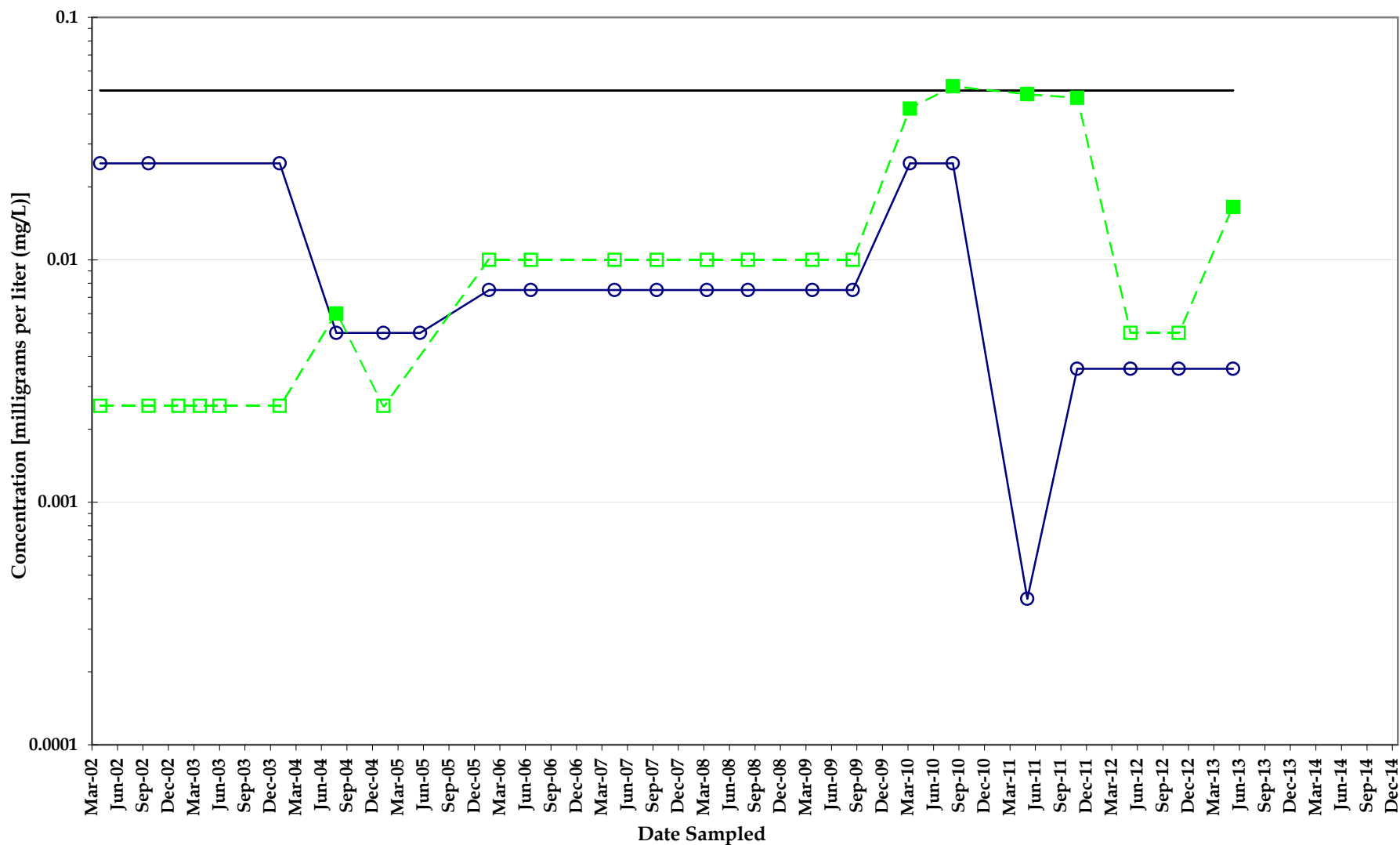


Chromium Concentrations Monitoring Well MW032

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

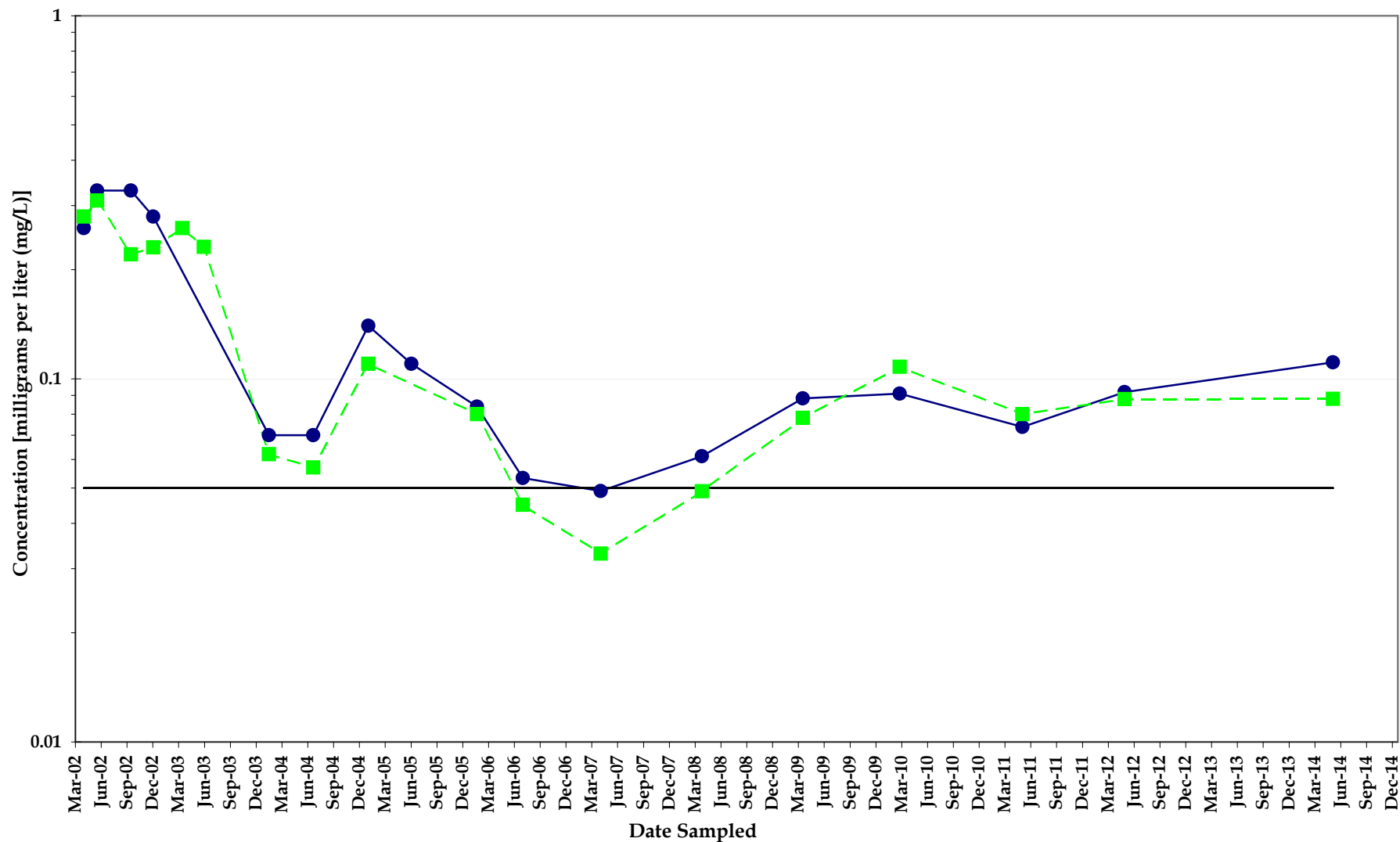


Chromium Concentrations Monitoring Well MW033

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

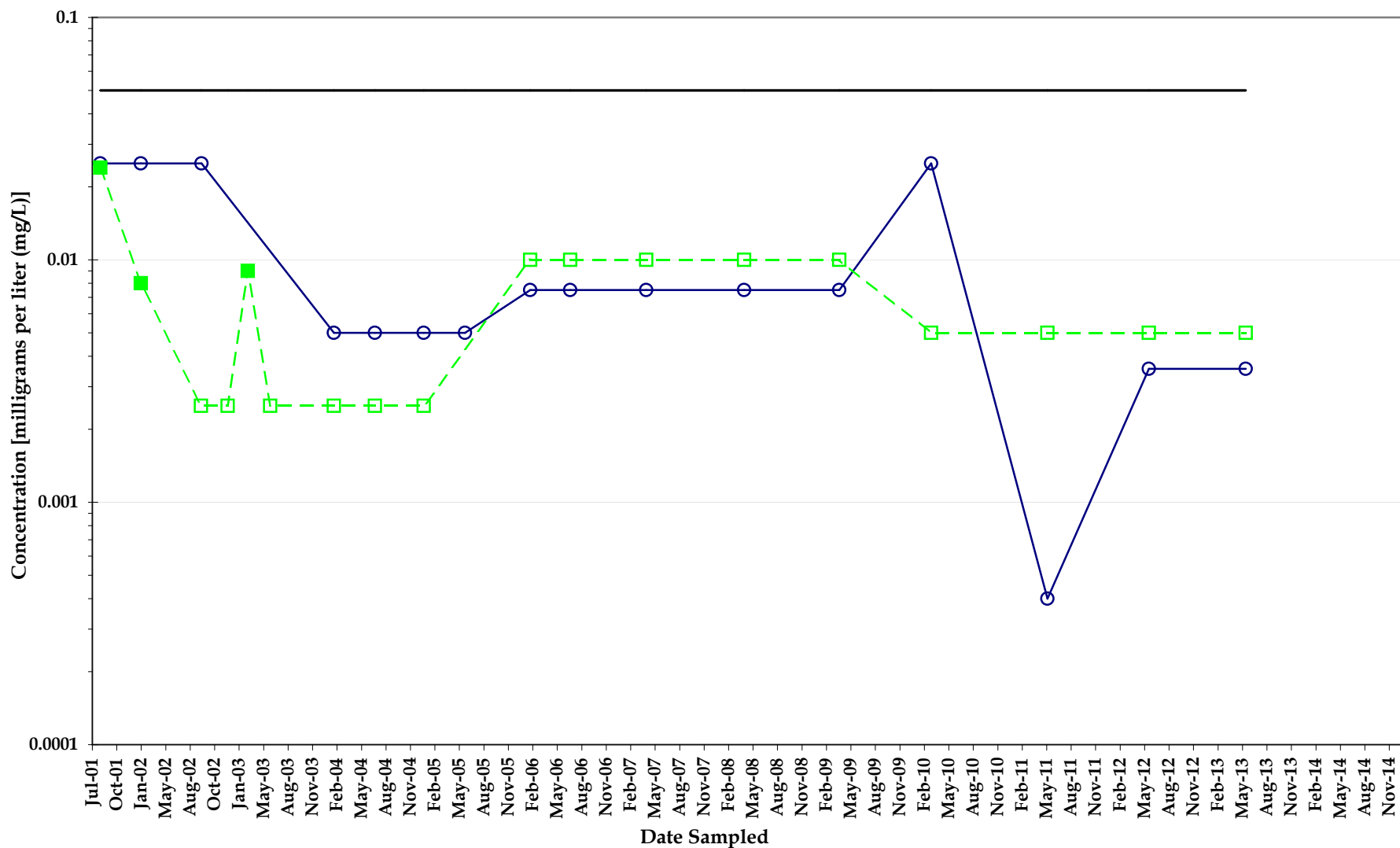


Chromium Concentrations Monitoring Well MW034

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

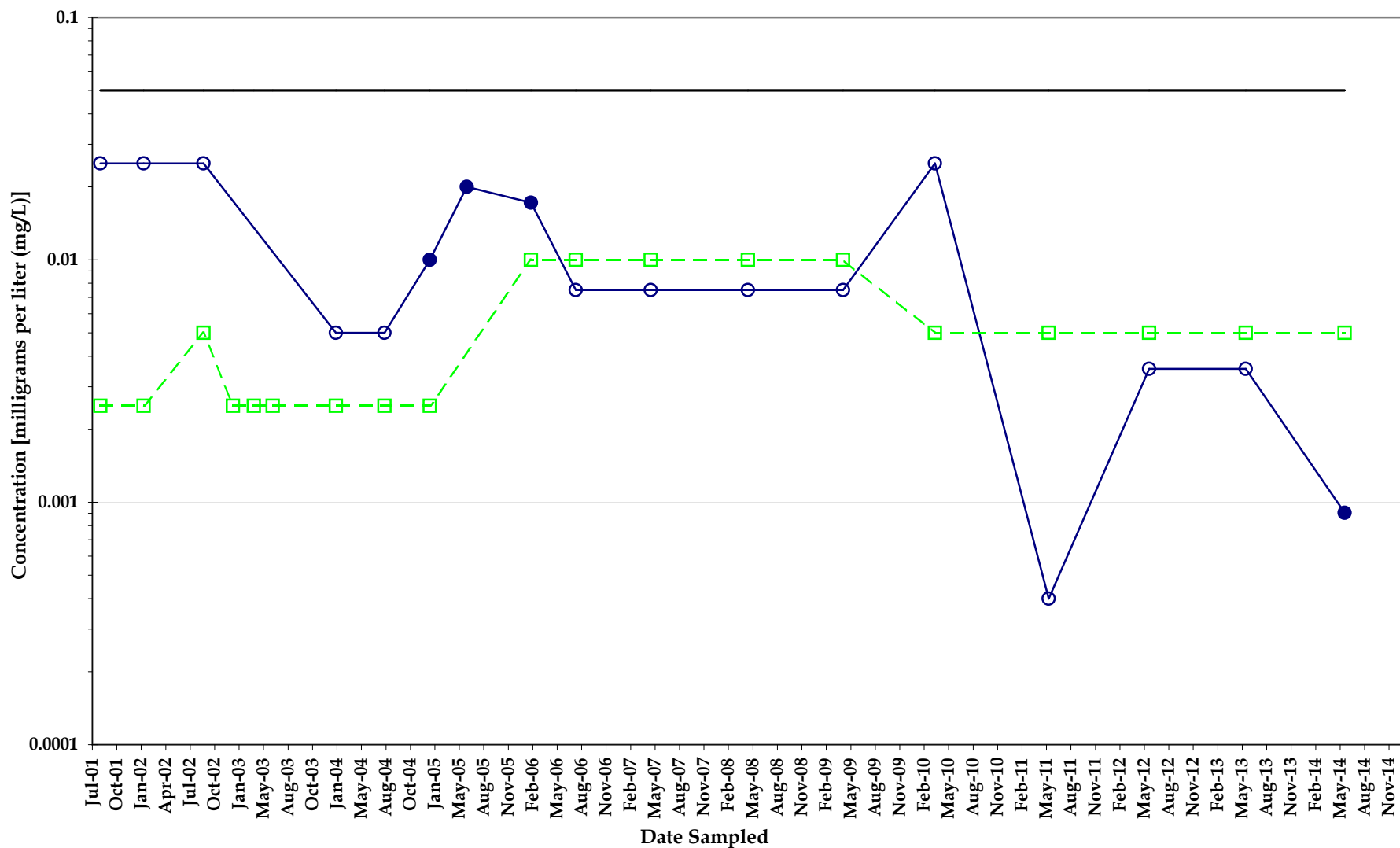


Chromium Concentrations Monitoring Well MW035

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

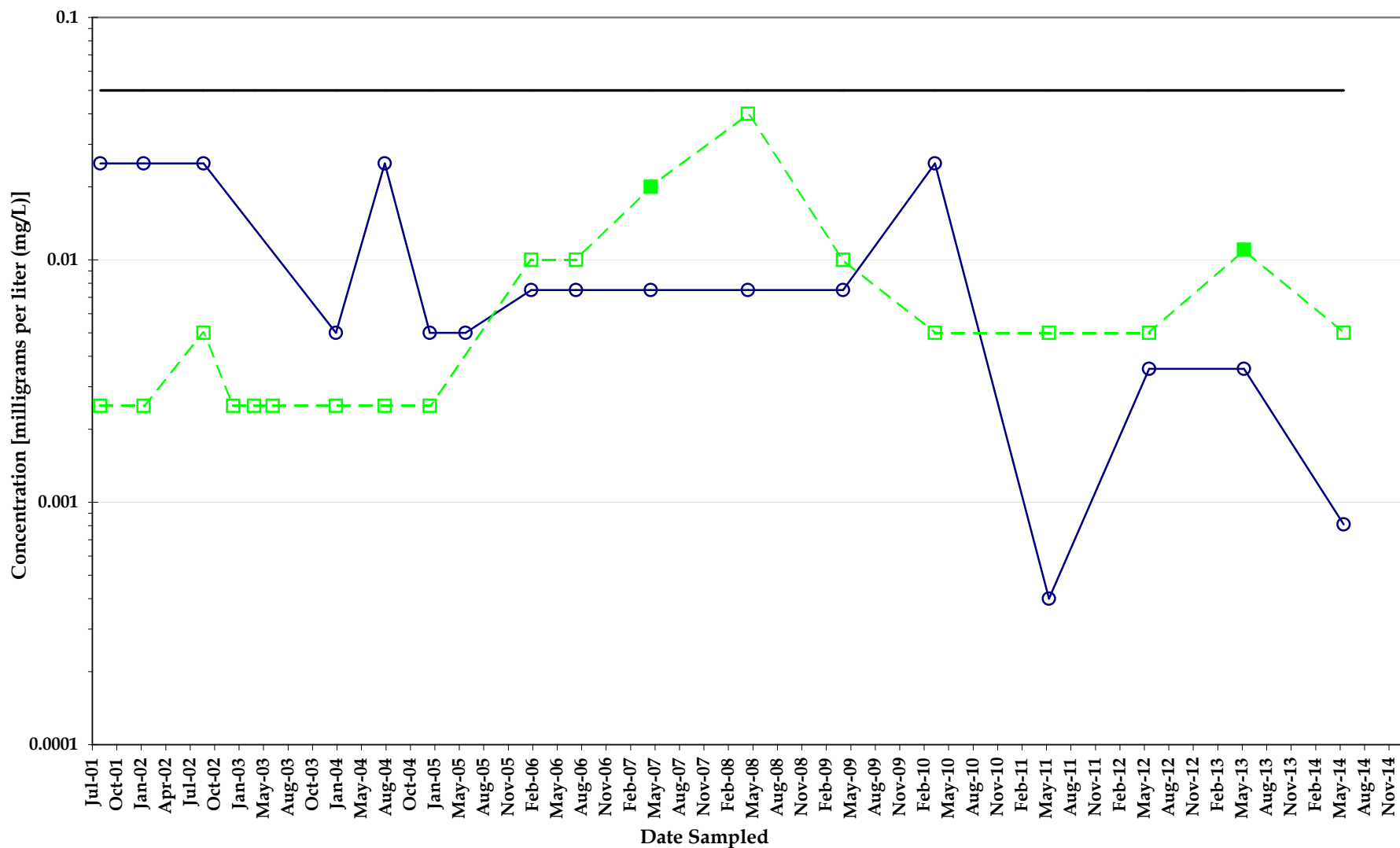


Chromium Concentrations Monitoring Well MW036

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

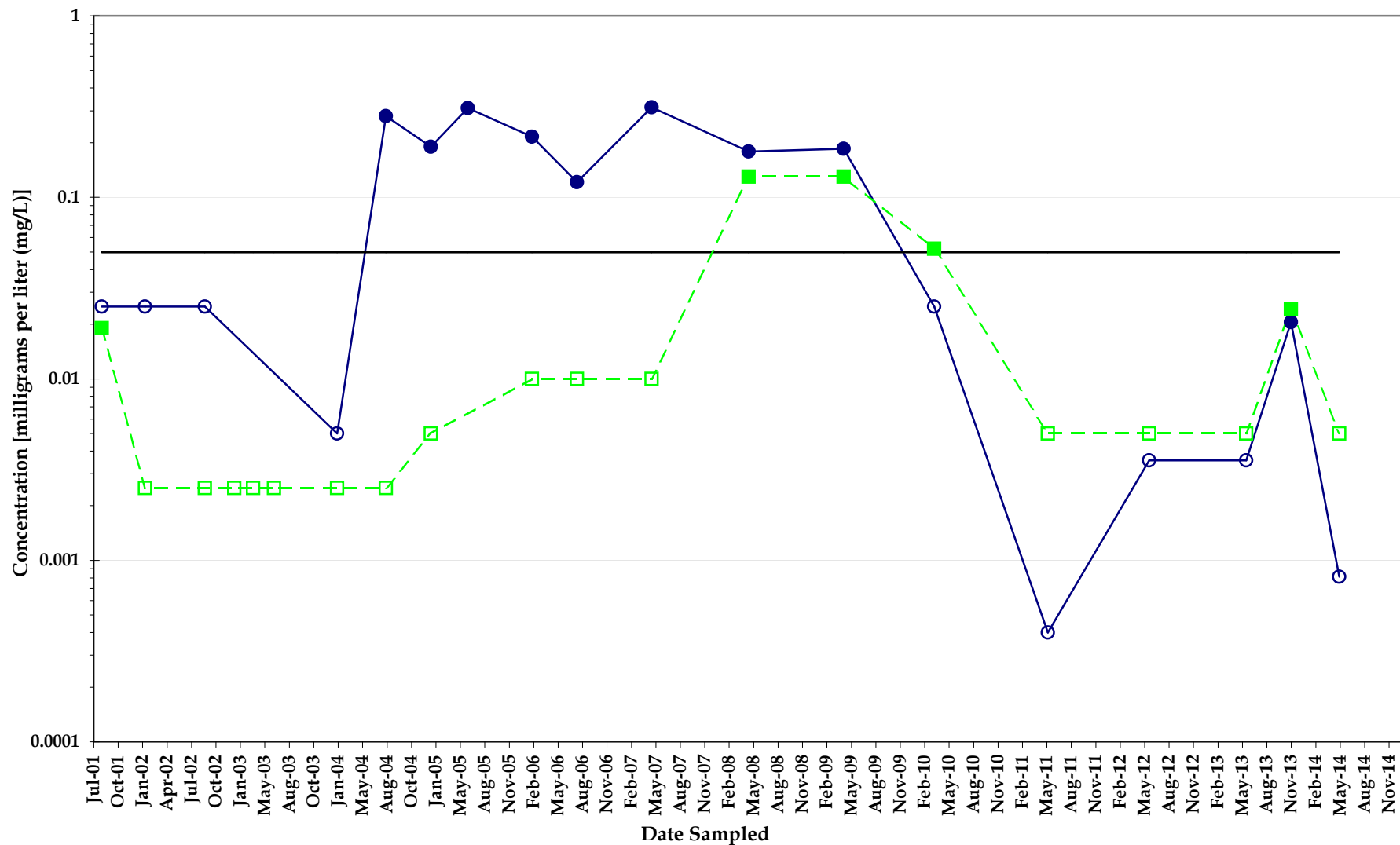


Chromium Concentrations Monitoring Well MW037

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

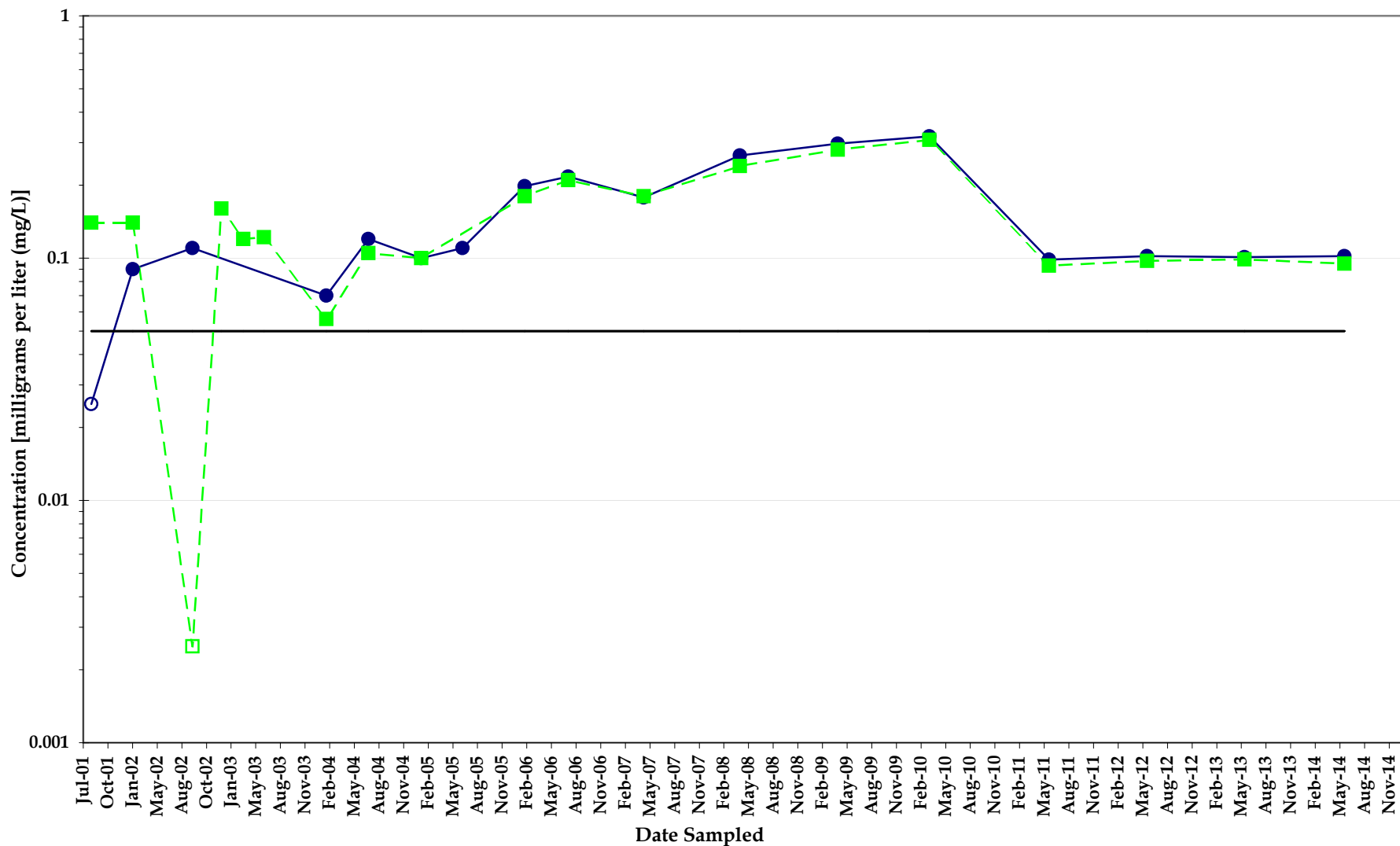


Chromium Concentrations Monitoring Well MW038

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

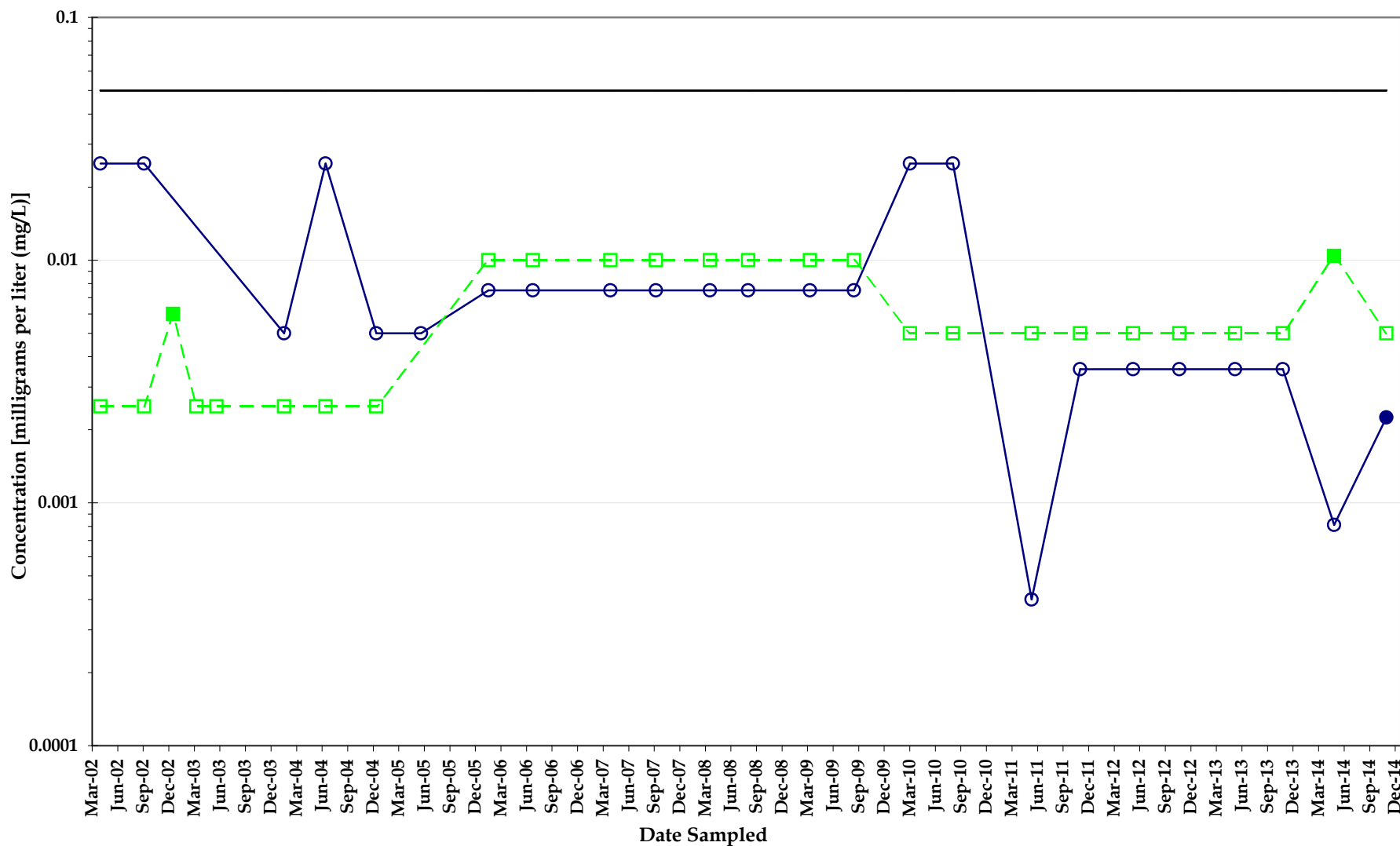


Chromium Concentrations Monitoring Well MW039A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

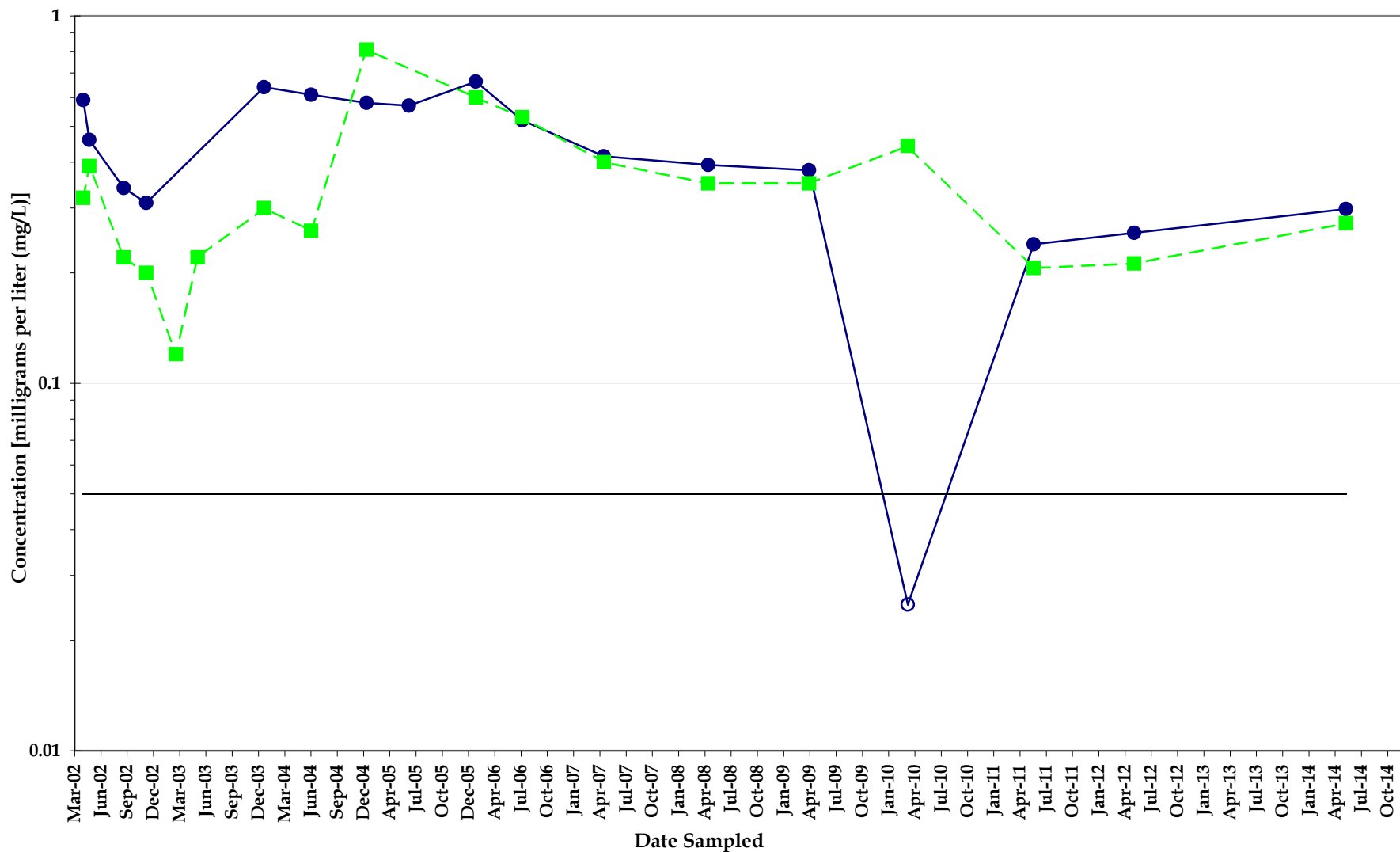


Chromium Concentrations Monitoring Well MW040A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



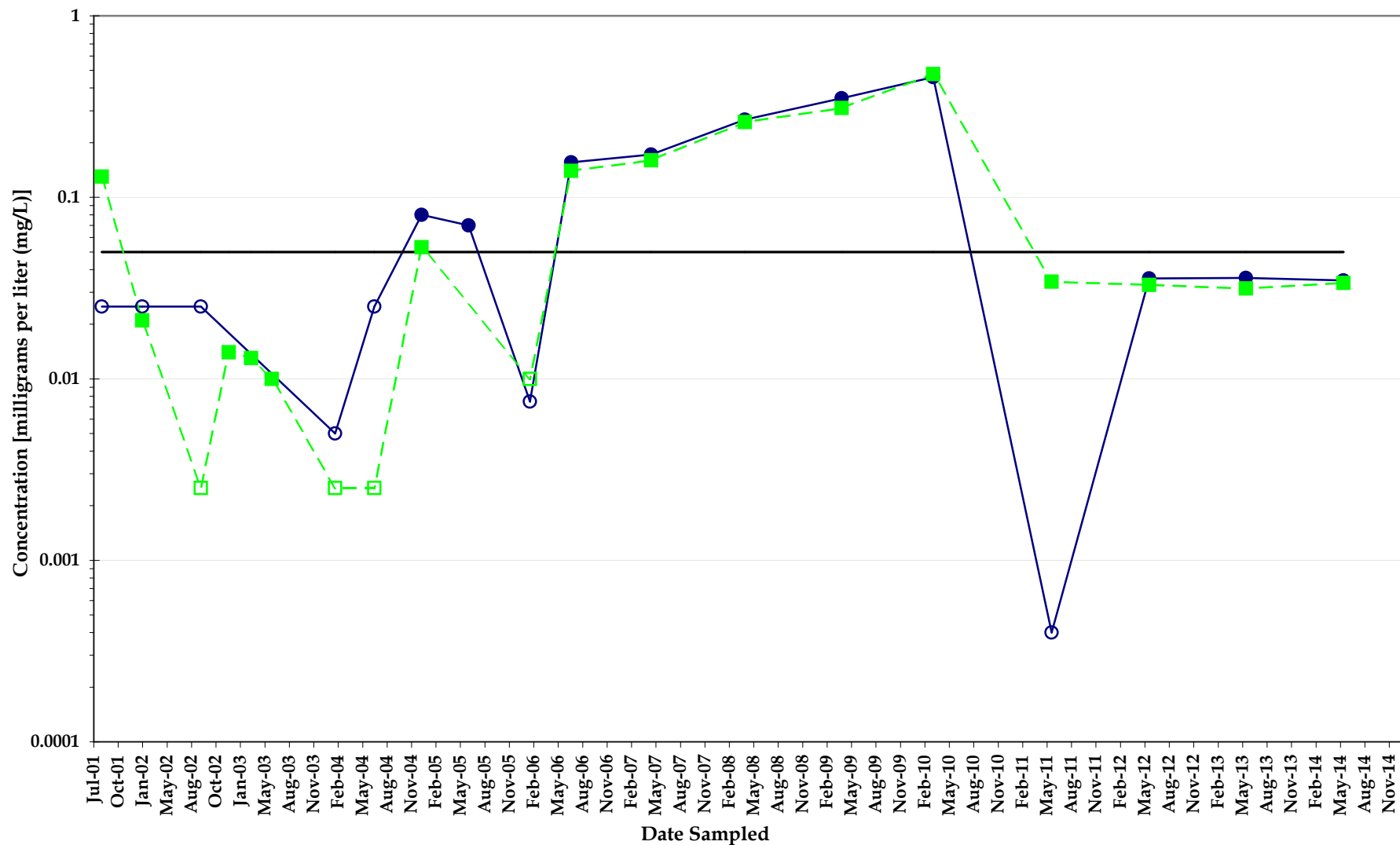
— Chromium
 — Hexavalent Chromium
 ● Detects
 ■ Detects
 ○ Non-Detects
 □ Non-Detects
 — NMWQCC

Chromium Concentrations Monitoring Well MW041A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

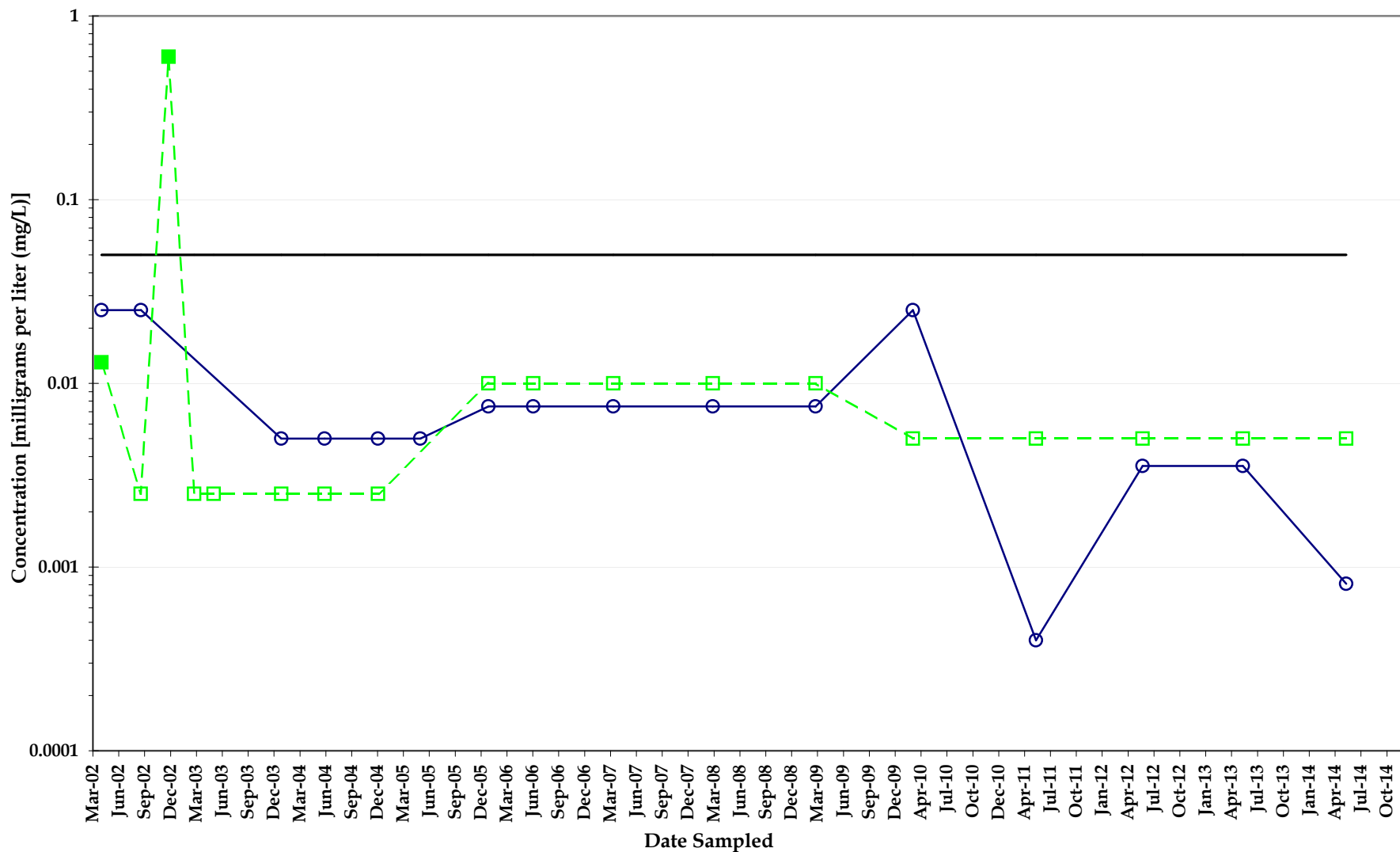


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW042A

North Eunice Gas Plant
Lea County, New Mexico



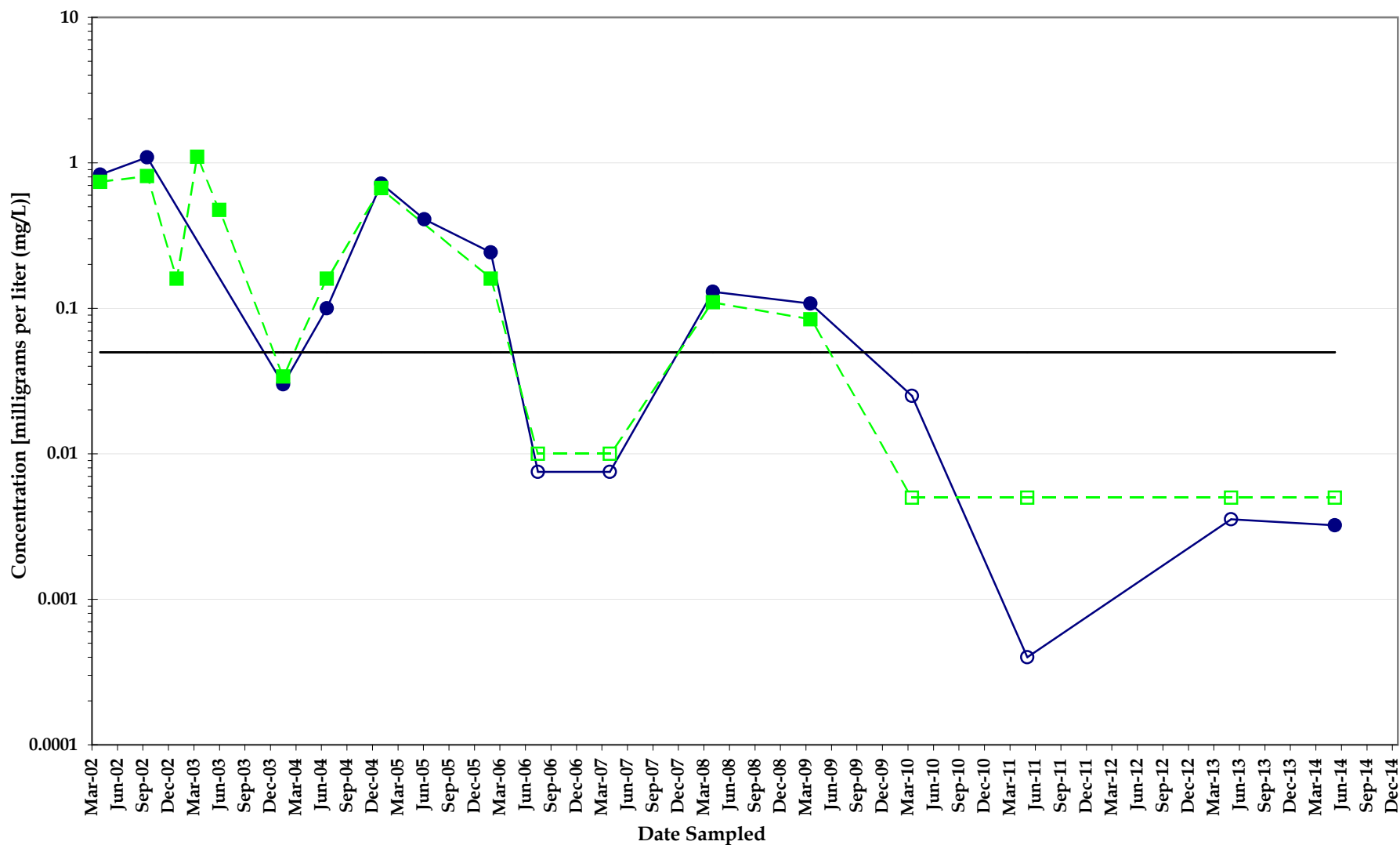


Chromium Concentrations Monitoring Well MW043

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

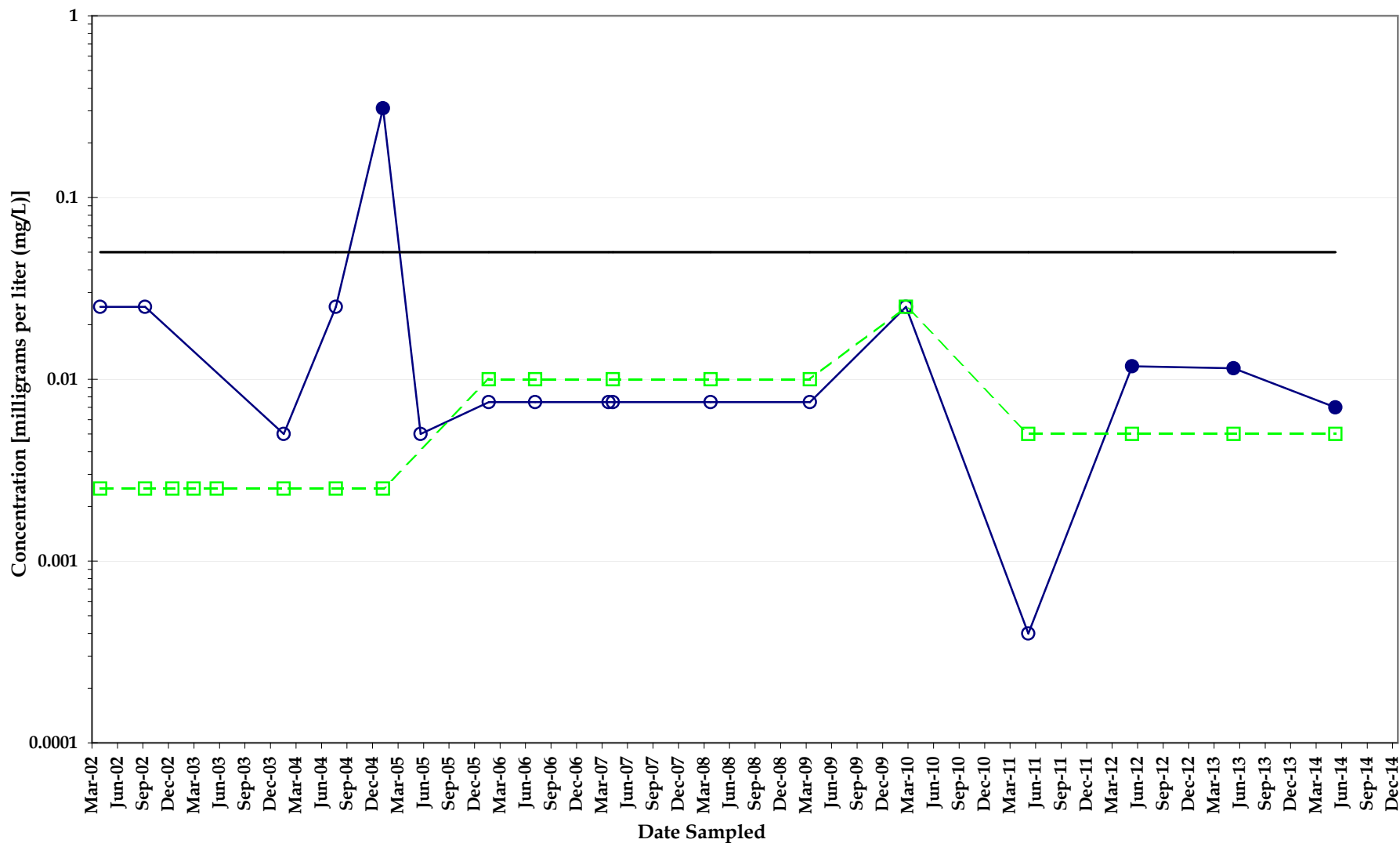


Chromium Concentrations Monitoring Well MW044

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

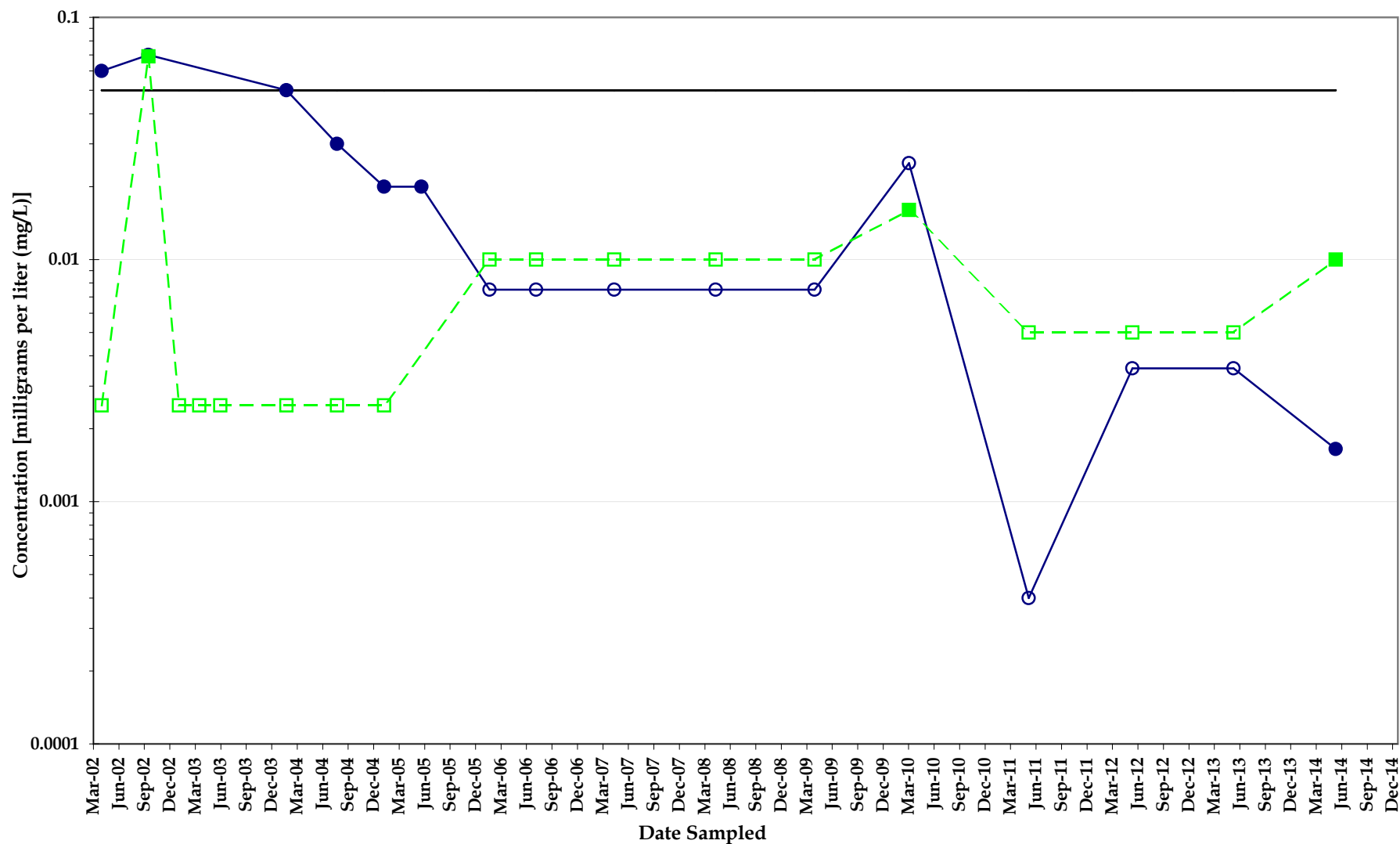


Chromium Concentrations Monitoring Well MW045

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

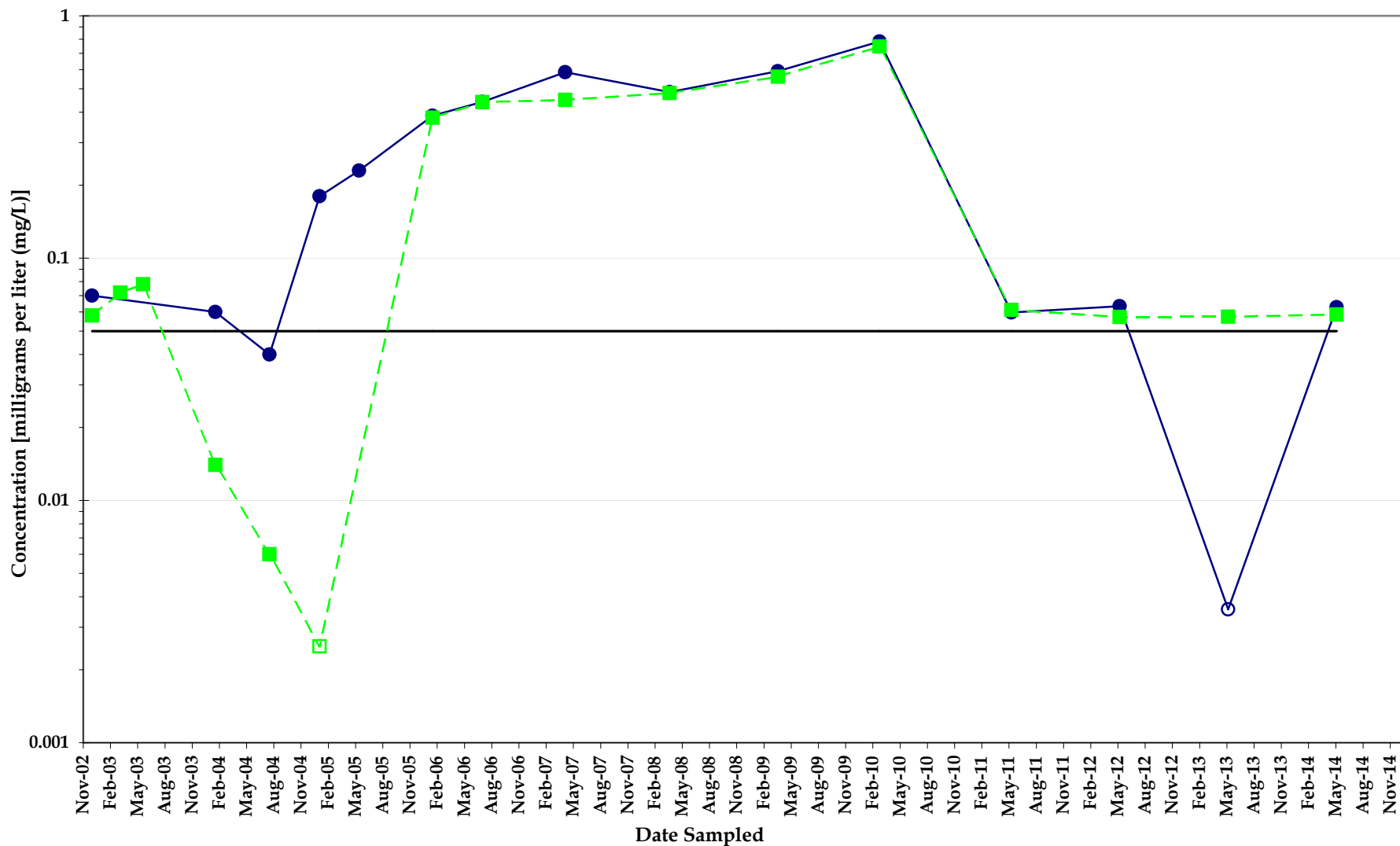


Chromium Concentrations Monitoring Well MW046

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

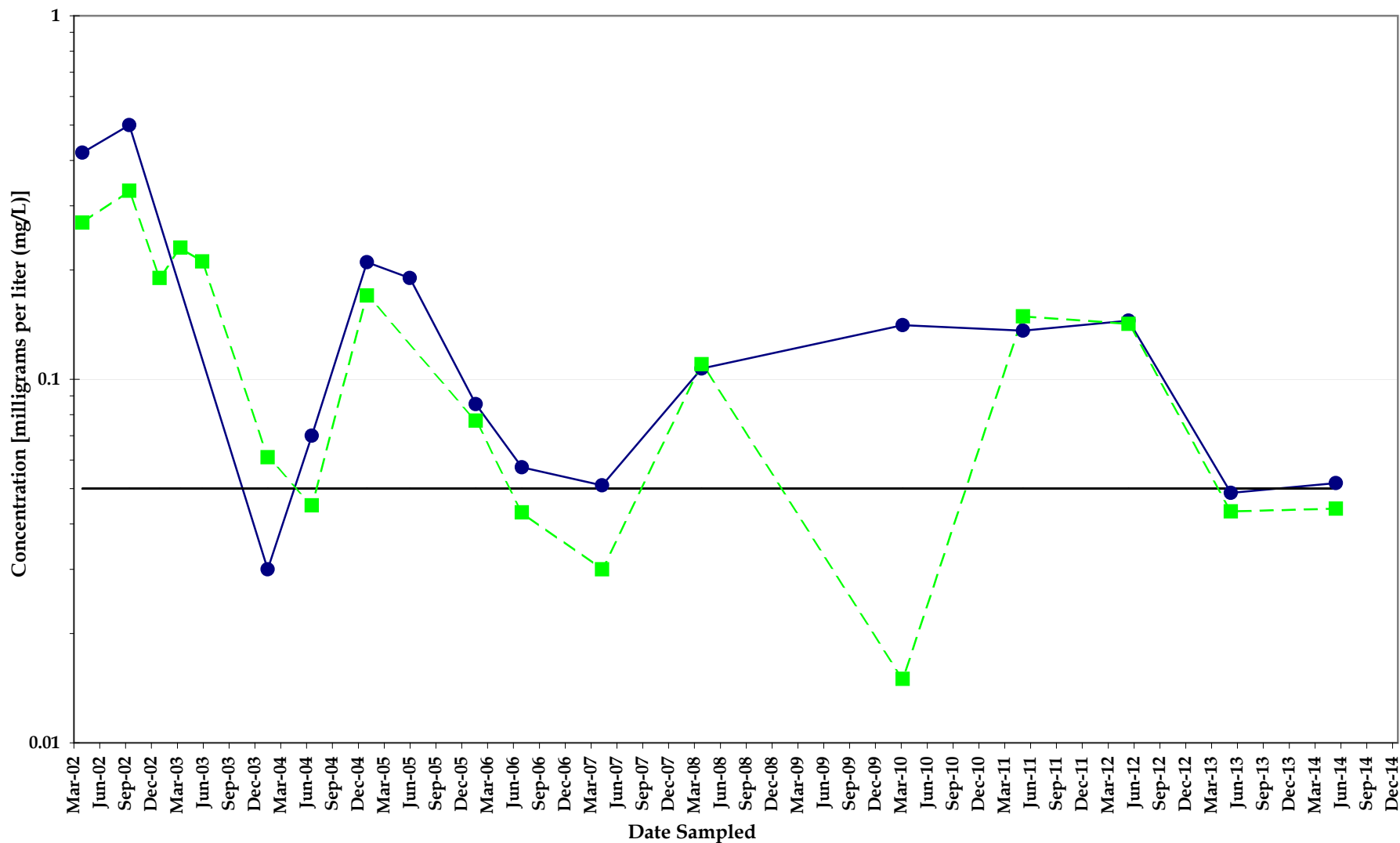


Chromium Concentrations Monitoring Well MW046A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

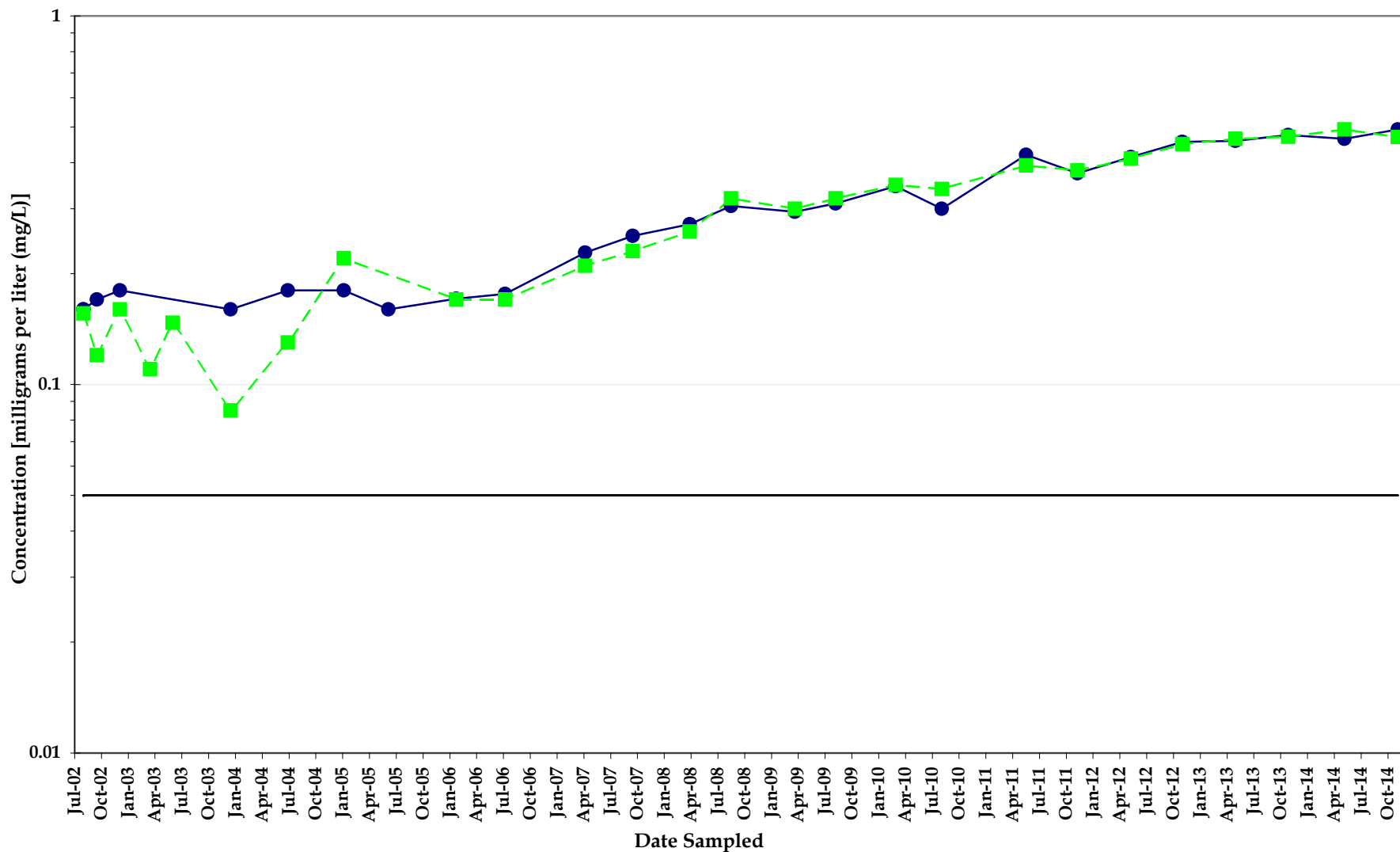


Chromium Concentrations Monitoring Well MW047

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

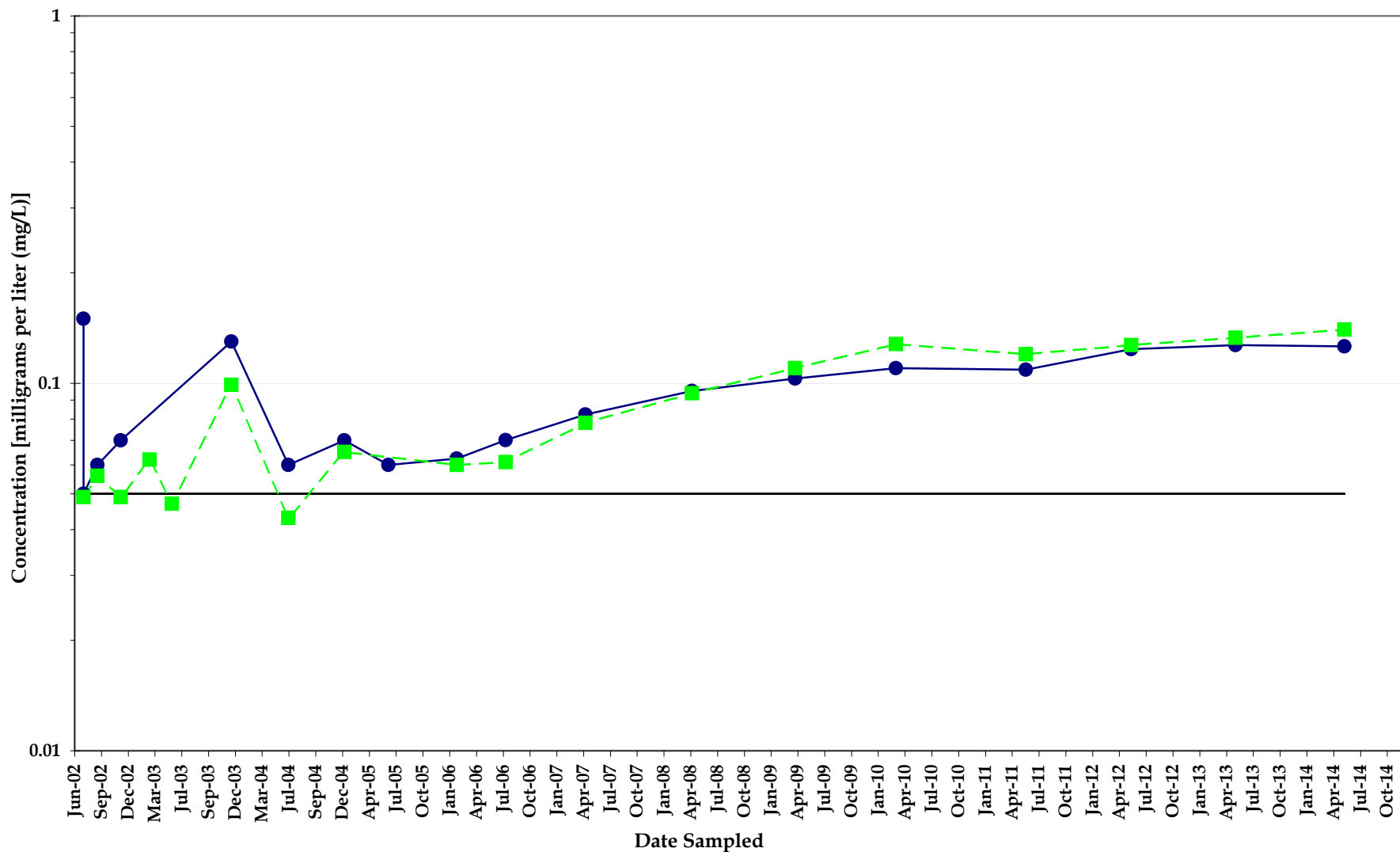


Chromium Concentrations Monitoring Well MW048SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

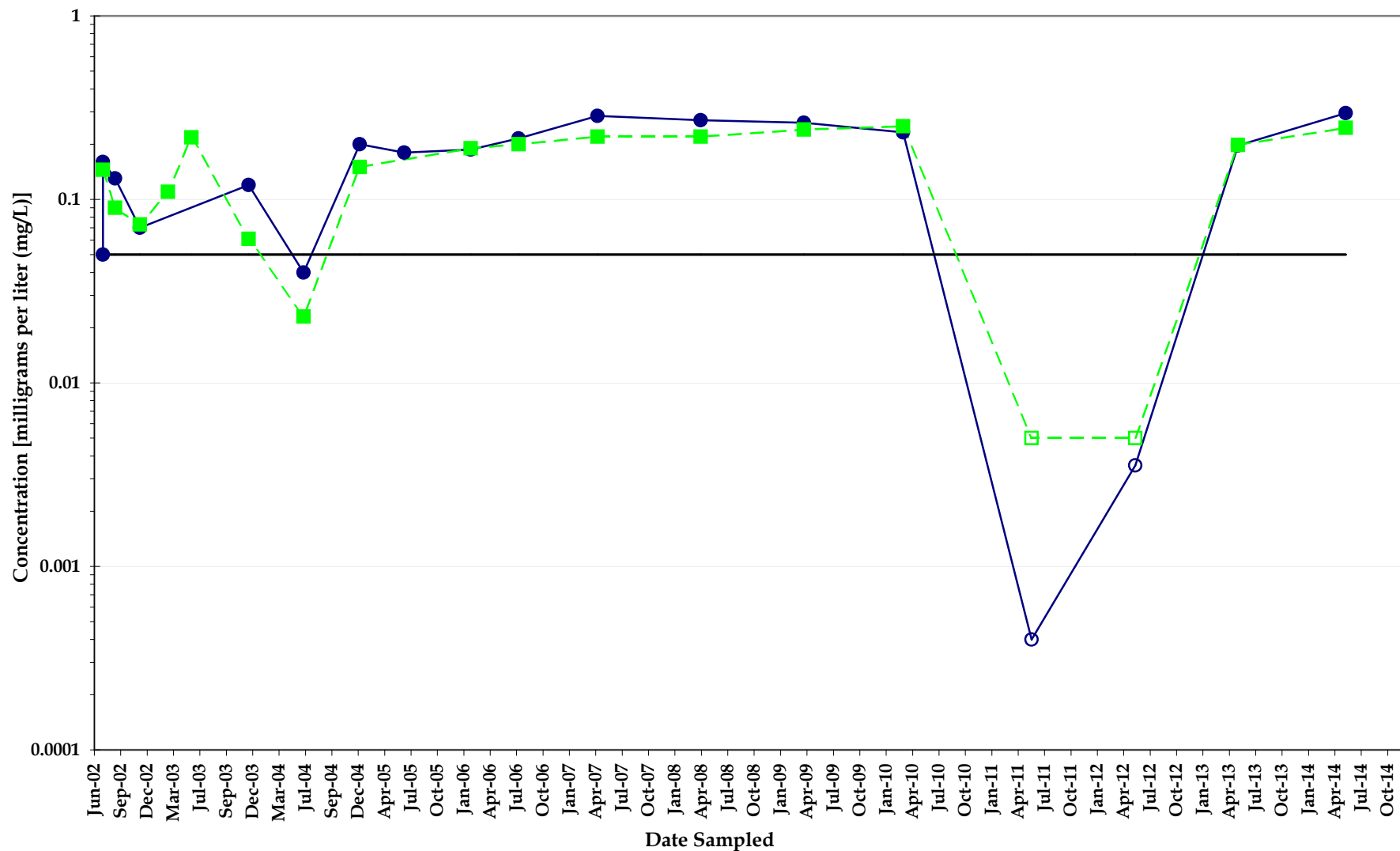


Chromium Concentrations Monitoring Well MW049SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

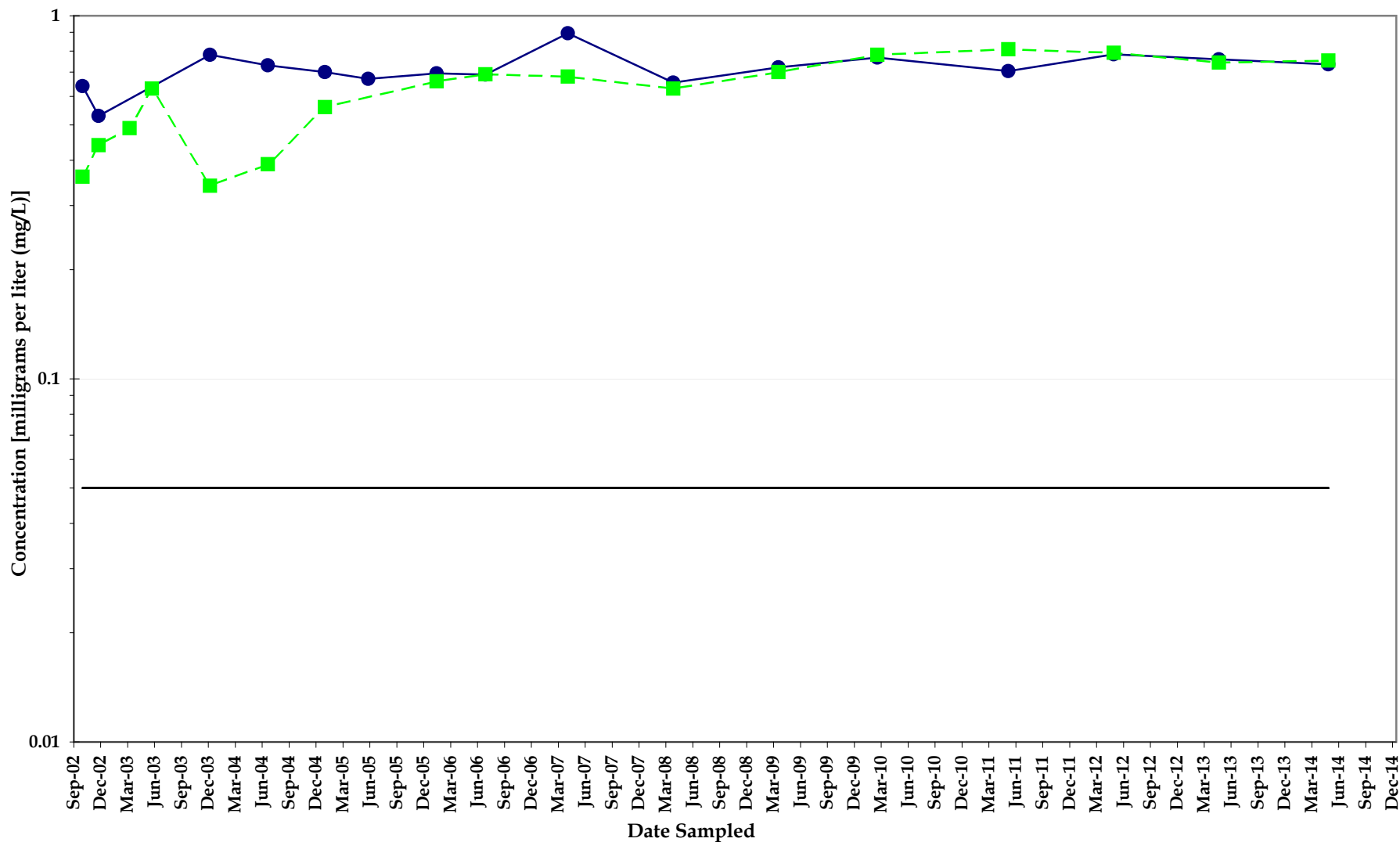


Chromium Concentrations Monitoring Well MW050SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

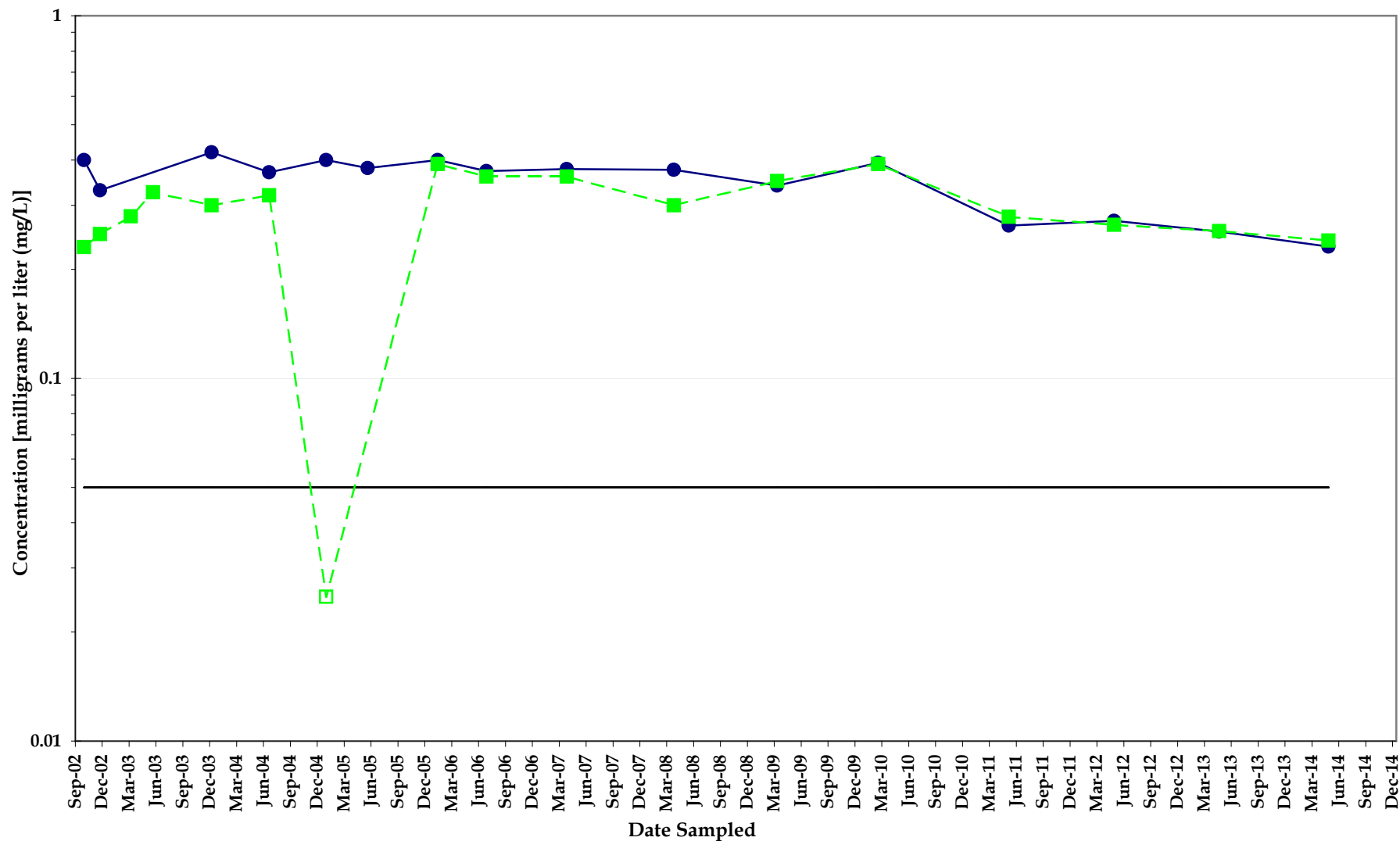


Chromium Concentrations Monitoring Well MW051SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

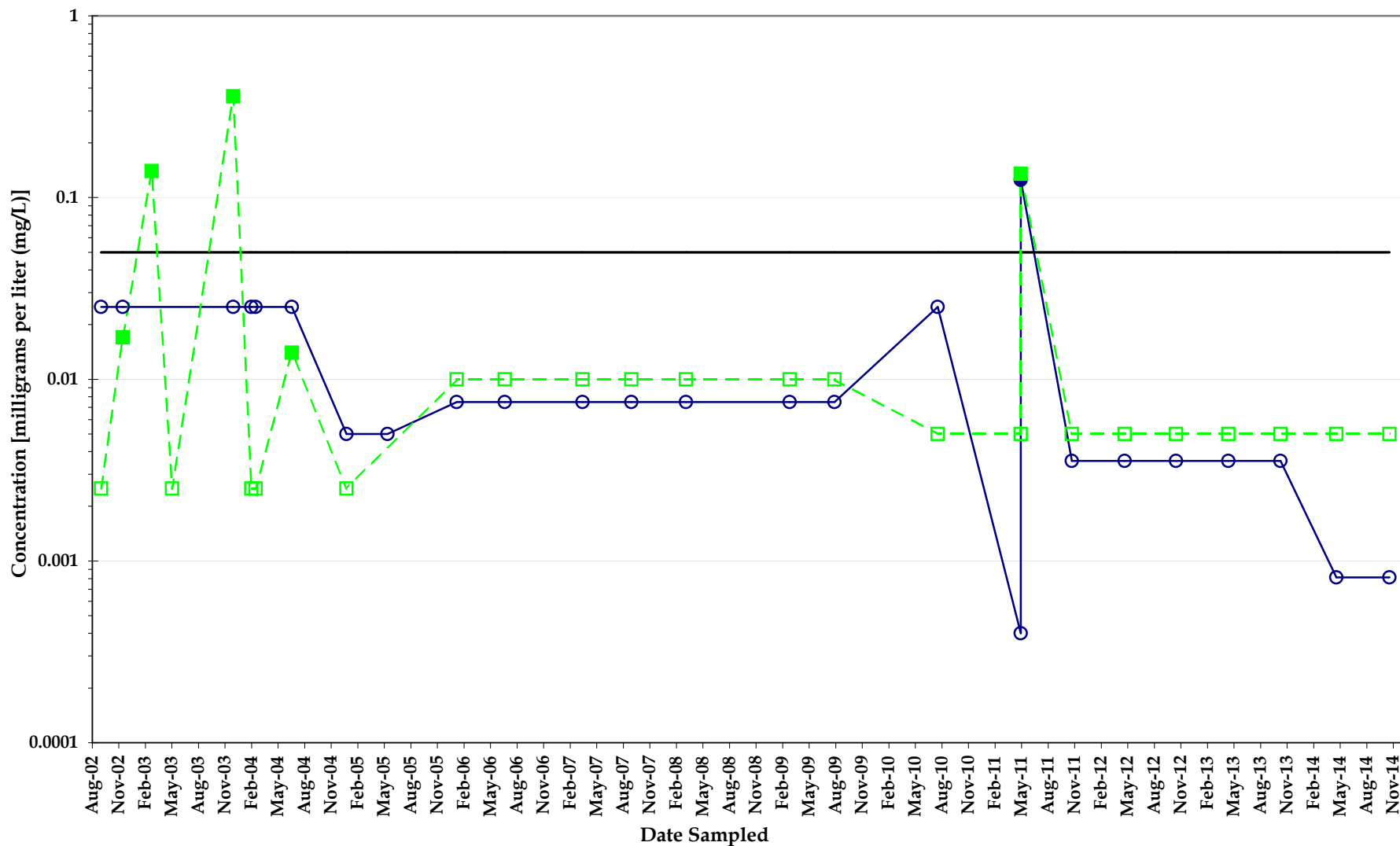


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW052SA

North Eunice Gas Plant
Lea County, New Mexico



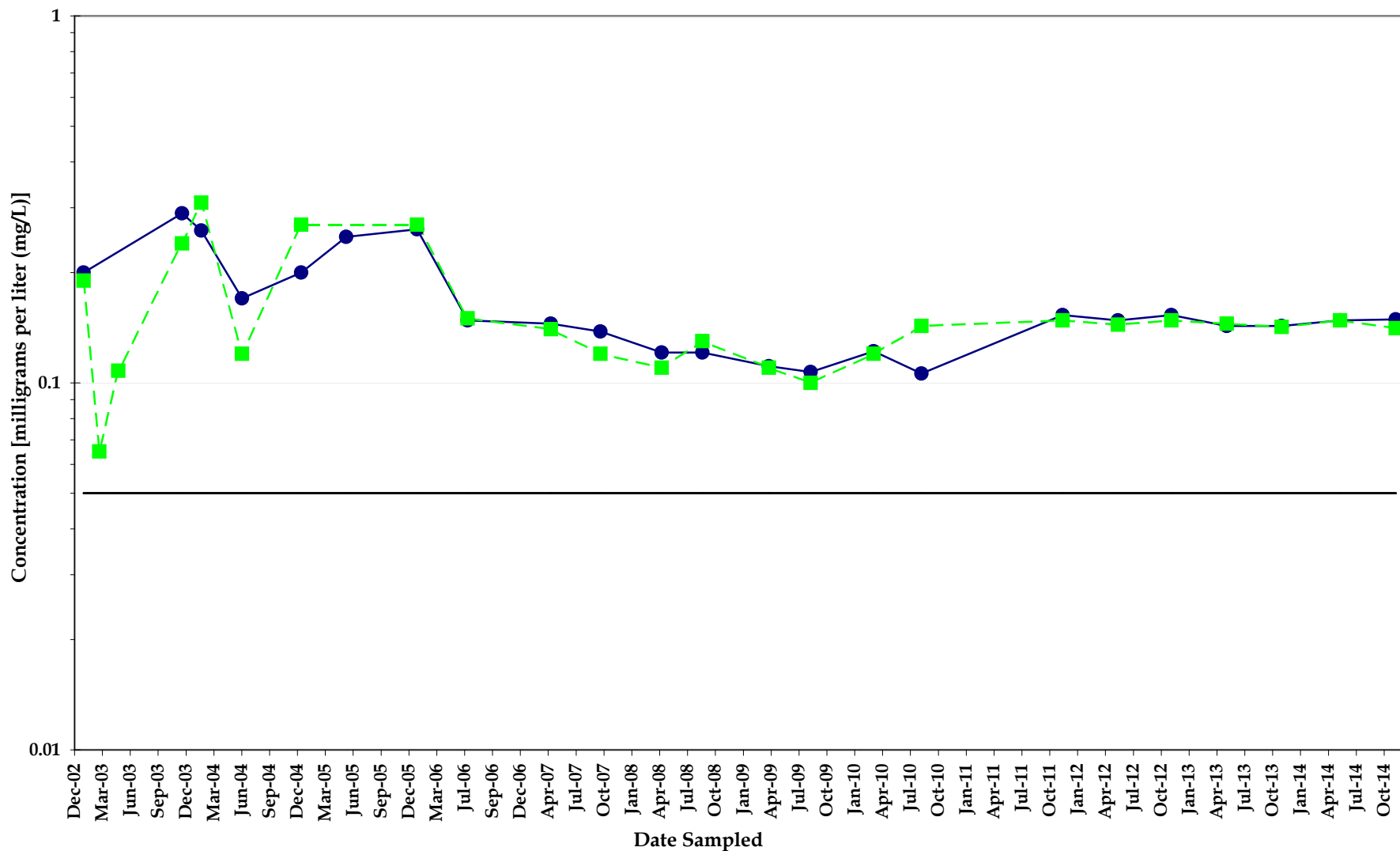


Chromium Concentrations Monitoring Well MW053SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

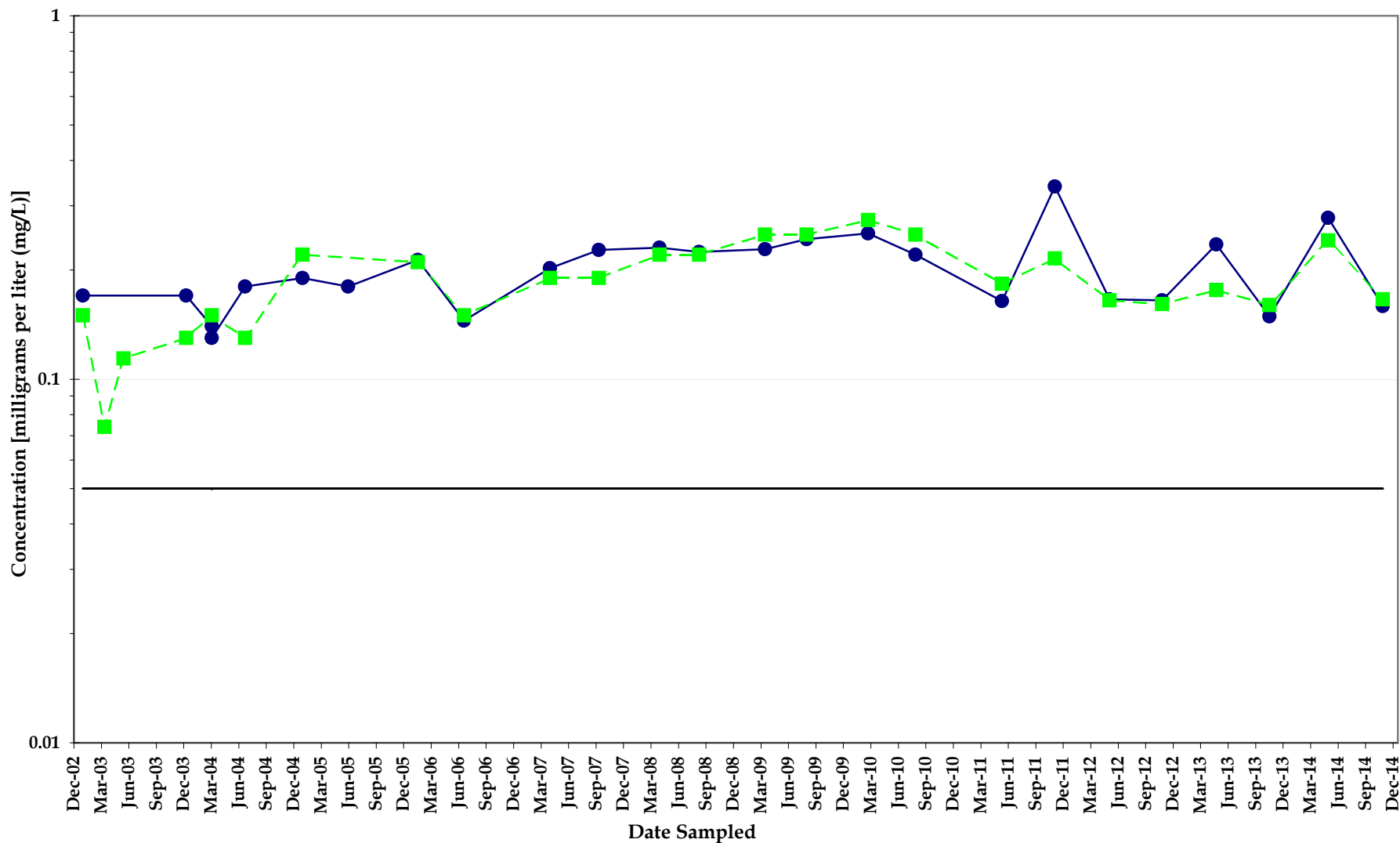


Chromium Concentrations Monitoring Well MW054SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

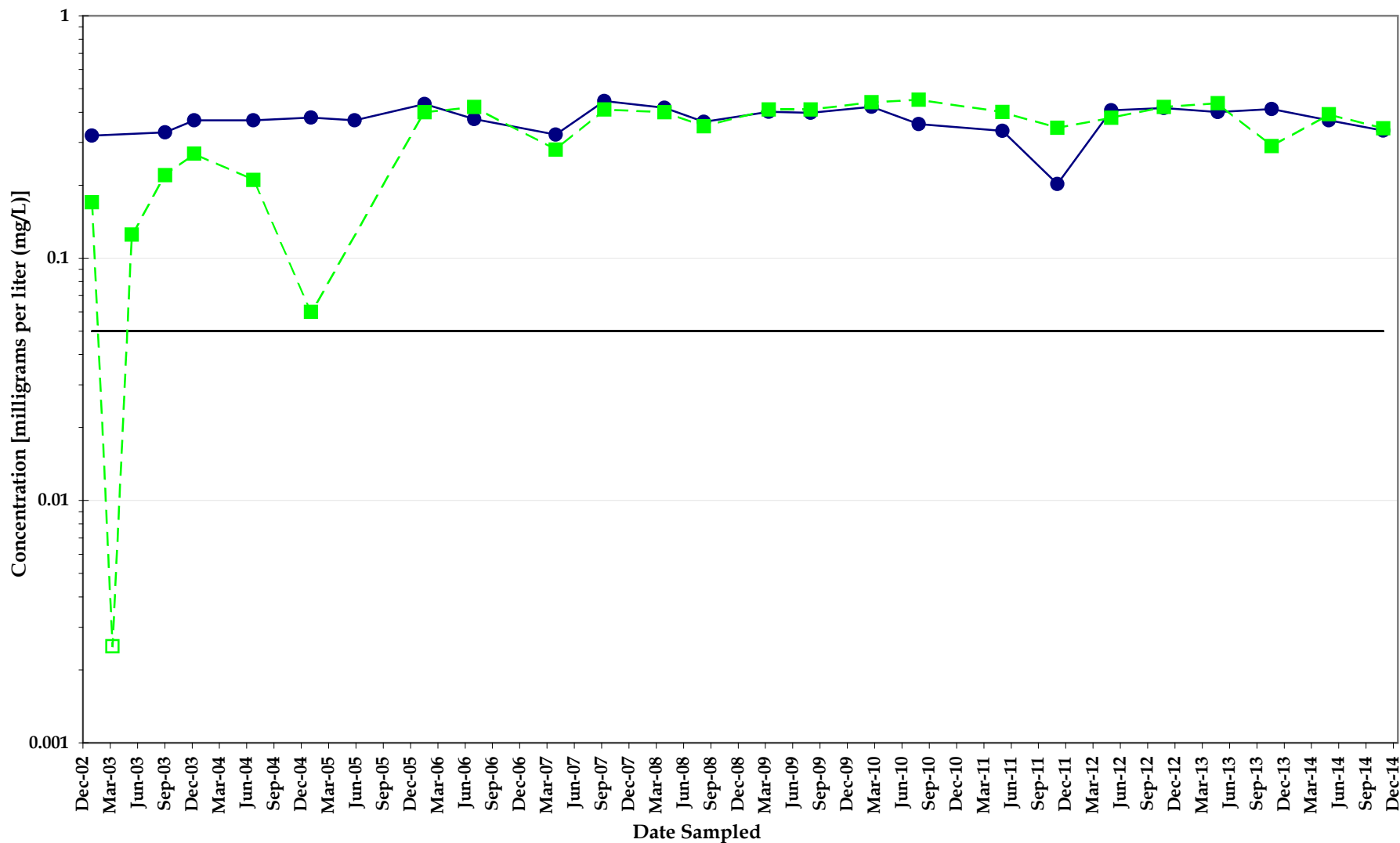


Chromium Concentrations Monitoring Well MW055SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

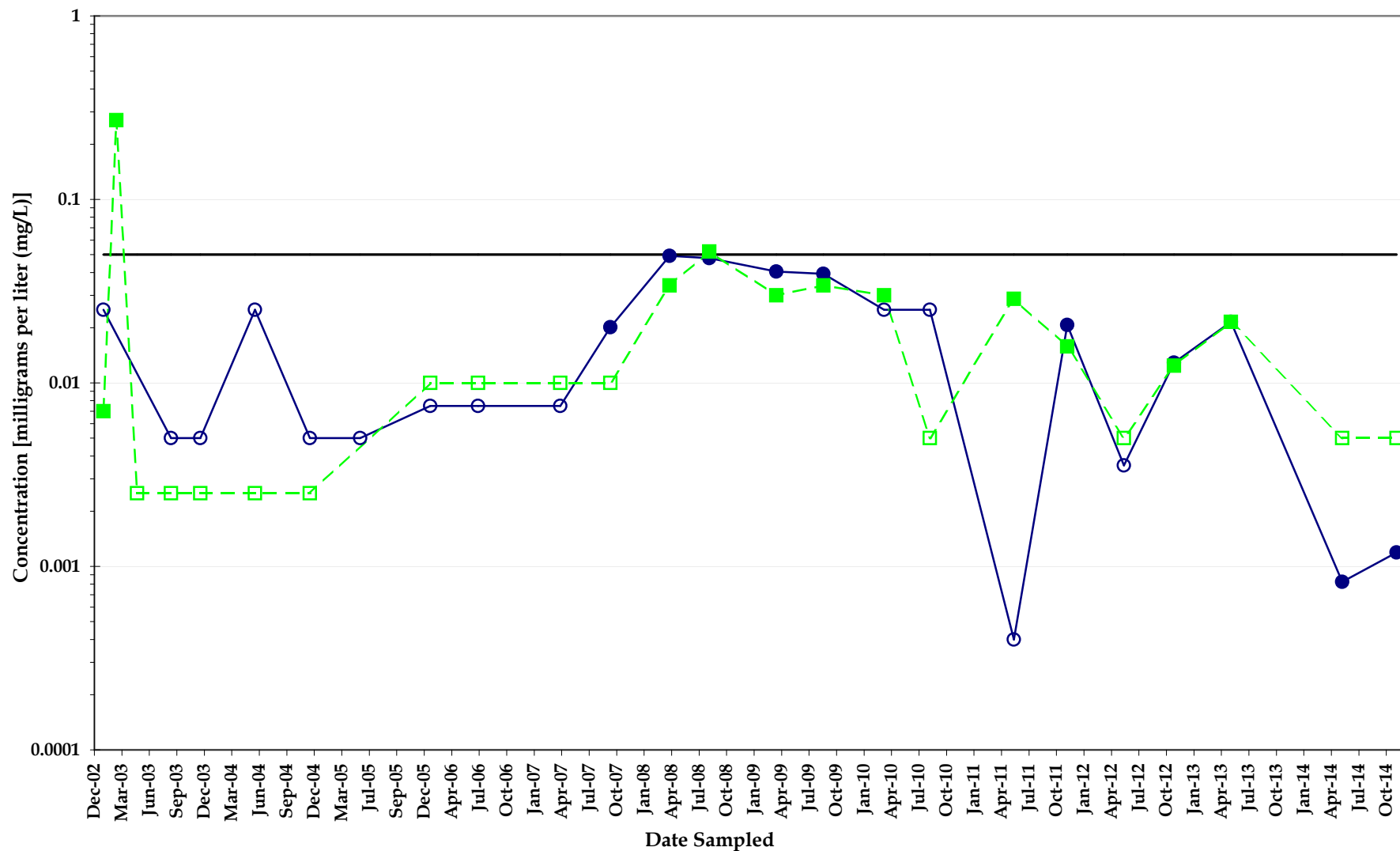


Chromium Concentrations Monitoring Well MW056SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

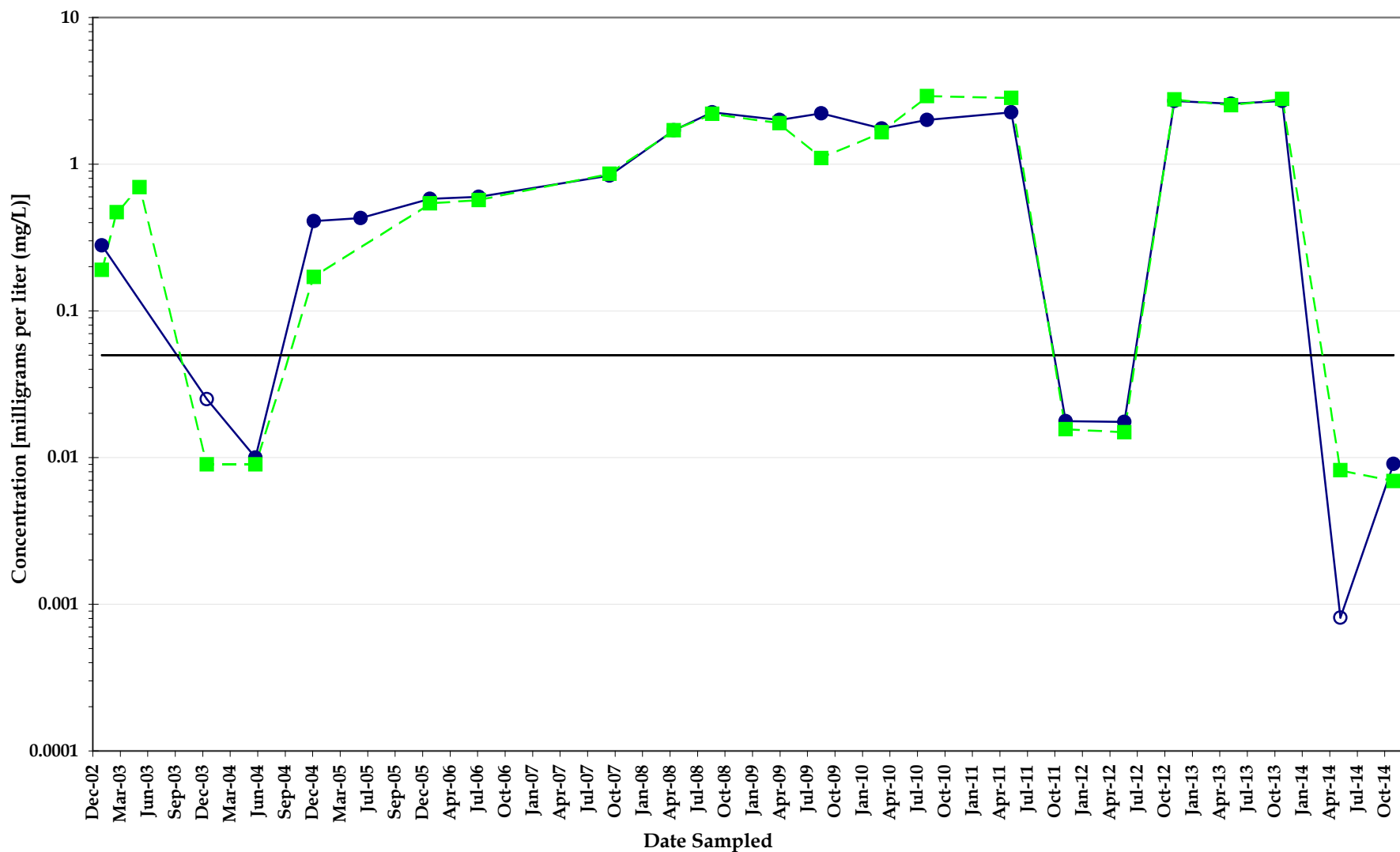


Chromium Concentrations Monitoring Well MW057SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

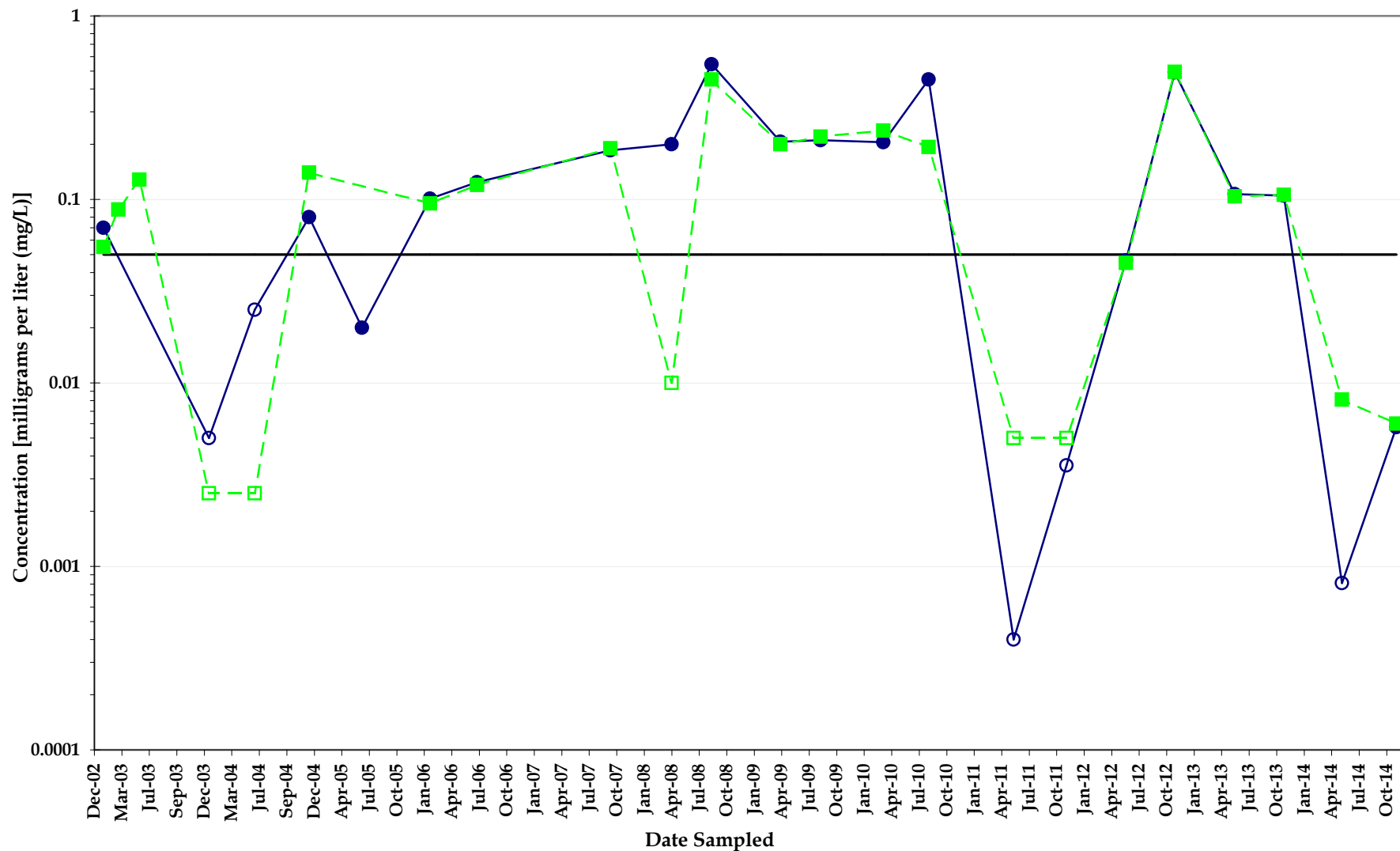


Chromium Concentrations Monitoring Well MW058

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

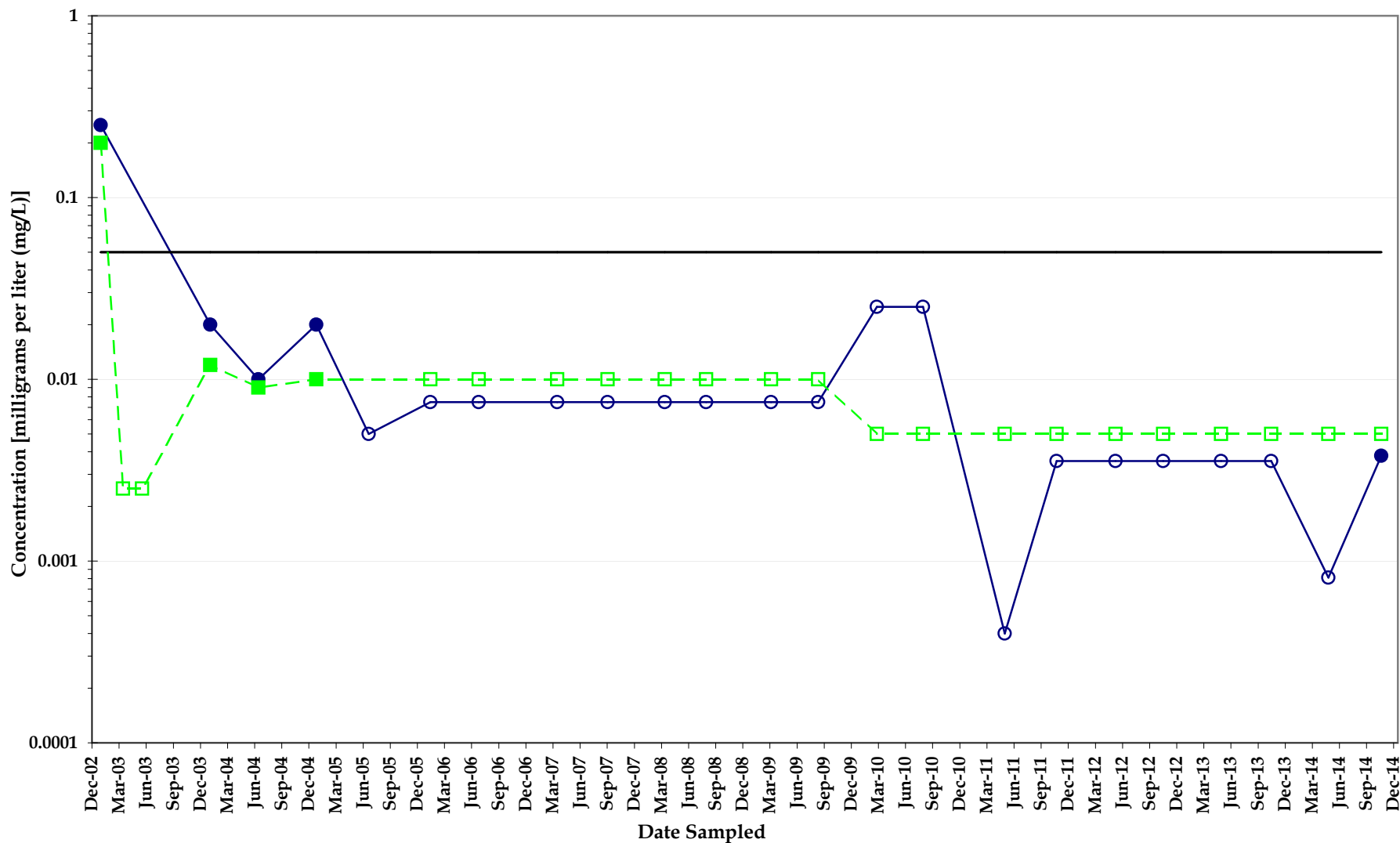


Chromium Concentrations Monitoring Well MW059

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

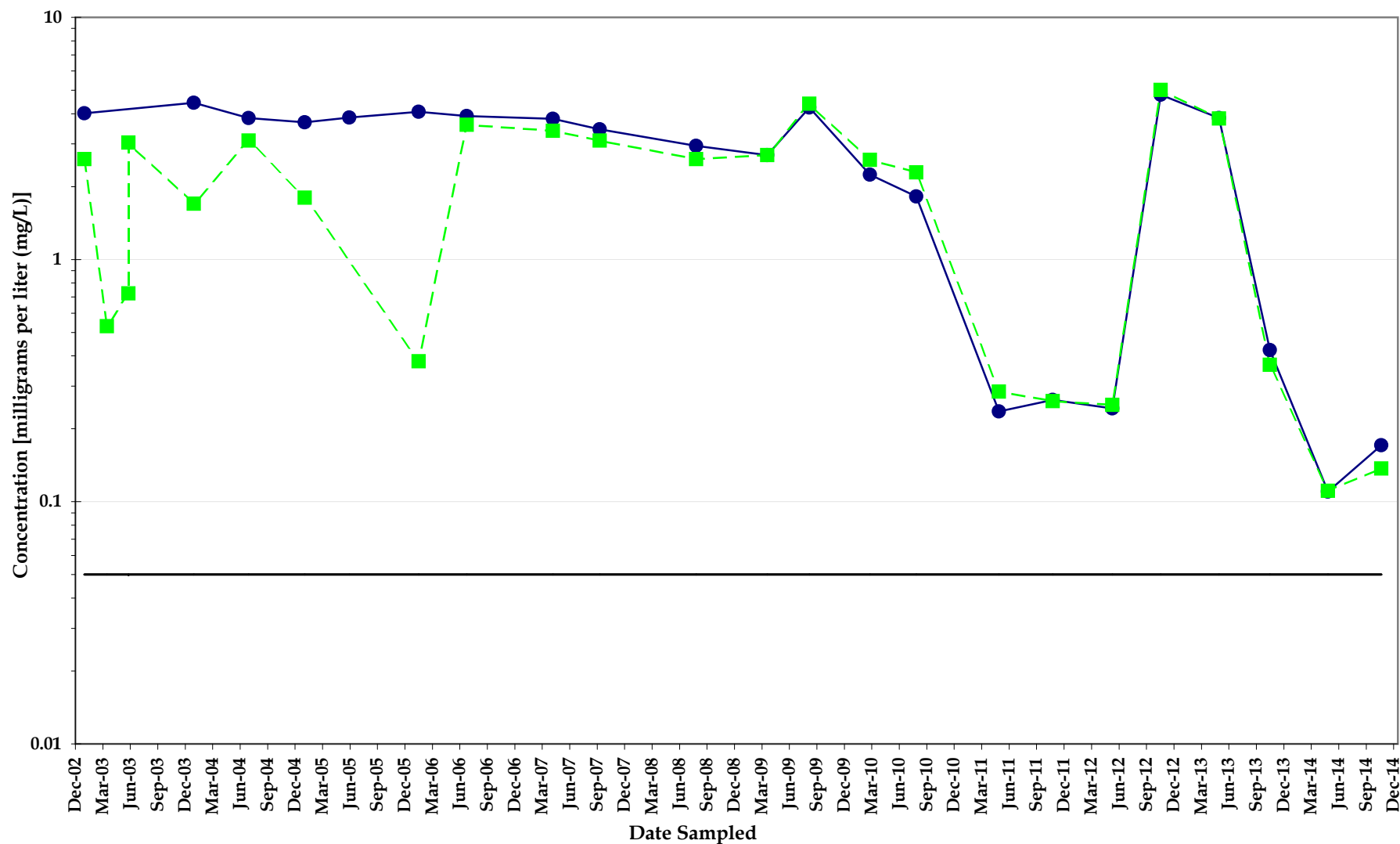


Chromium Concentrations Monitoring Well MW060

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

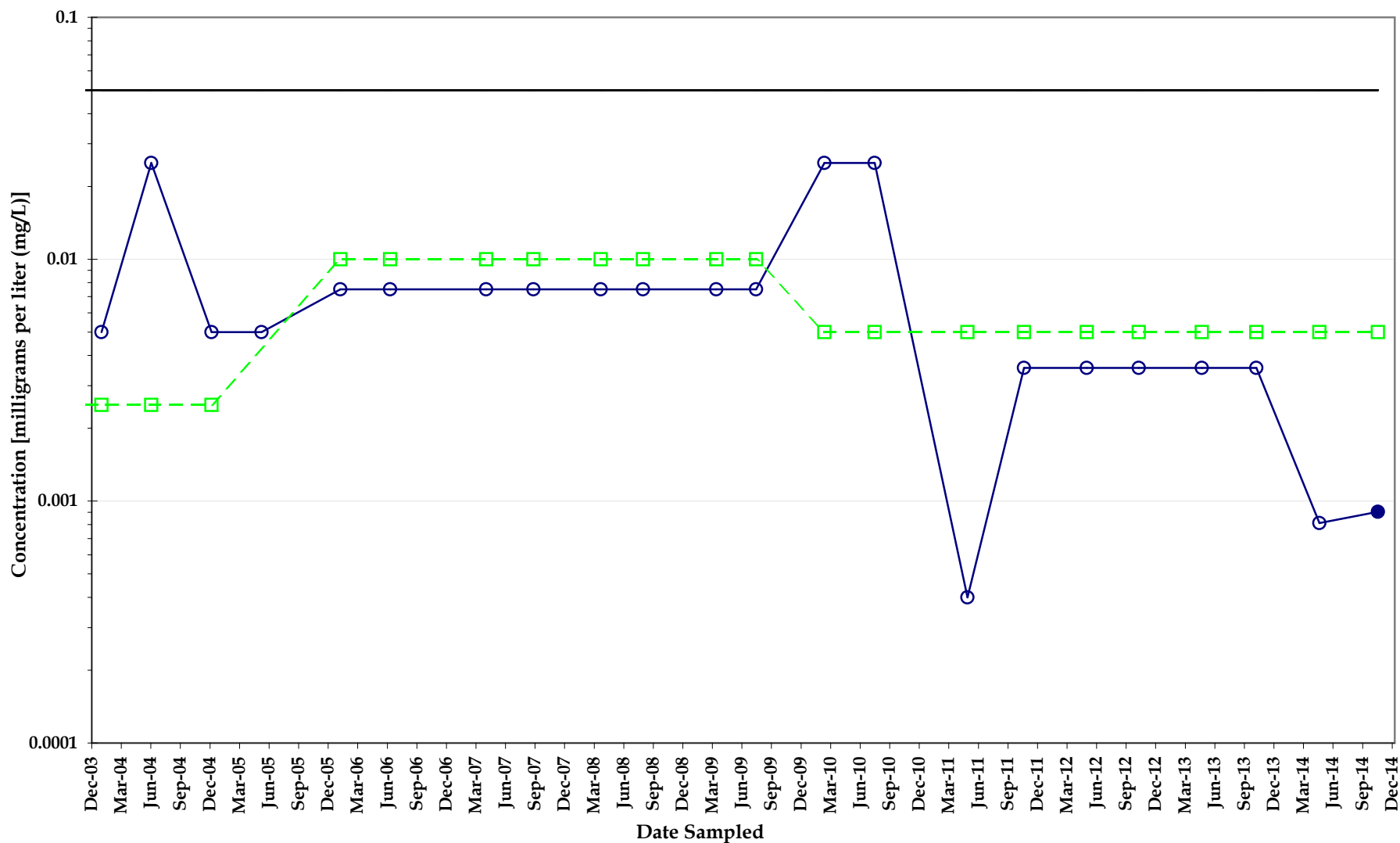


Chromium Concentrations Monitoring Well MW061

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

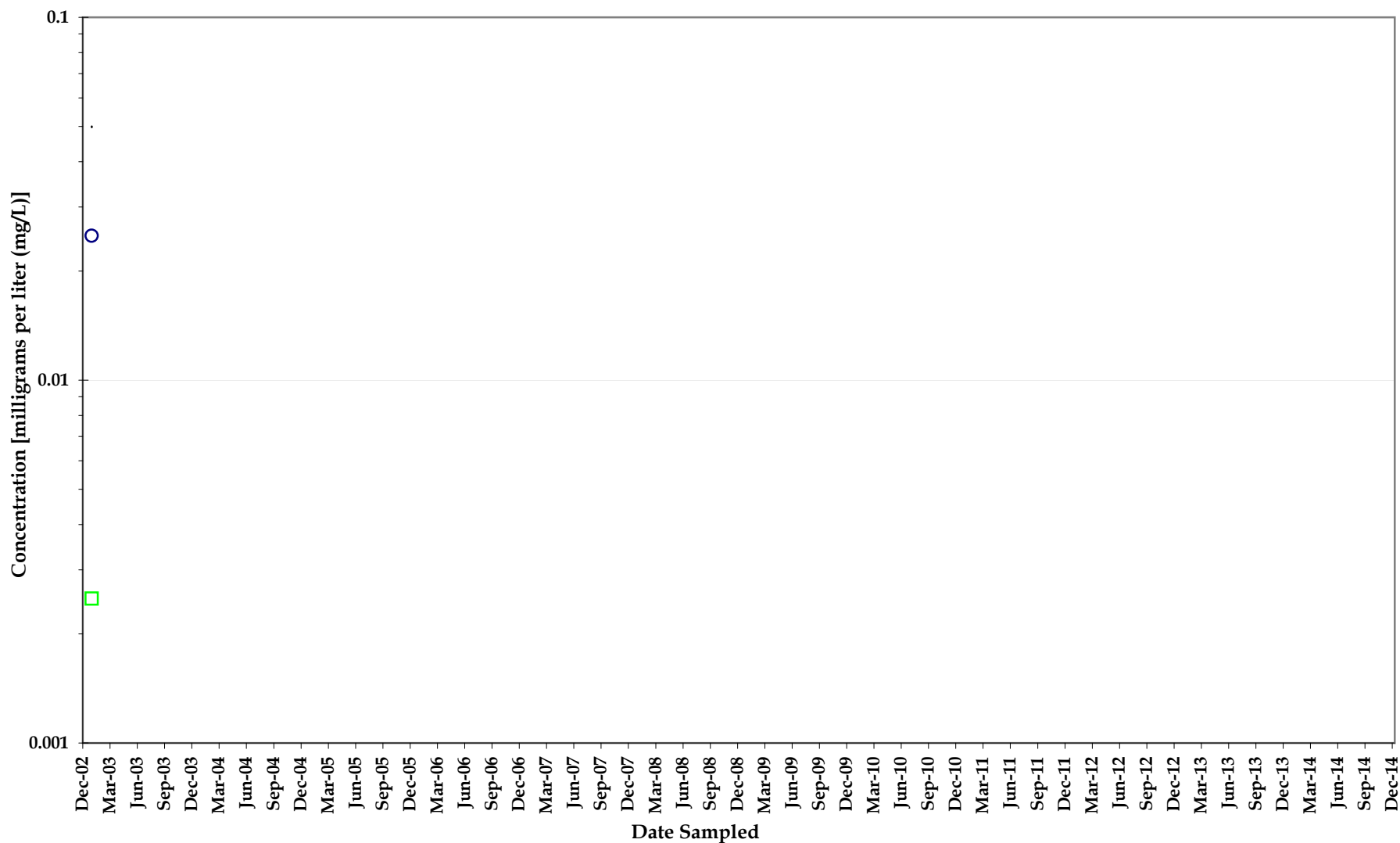


Chromium Concentrations Monitoring Well MW062A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

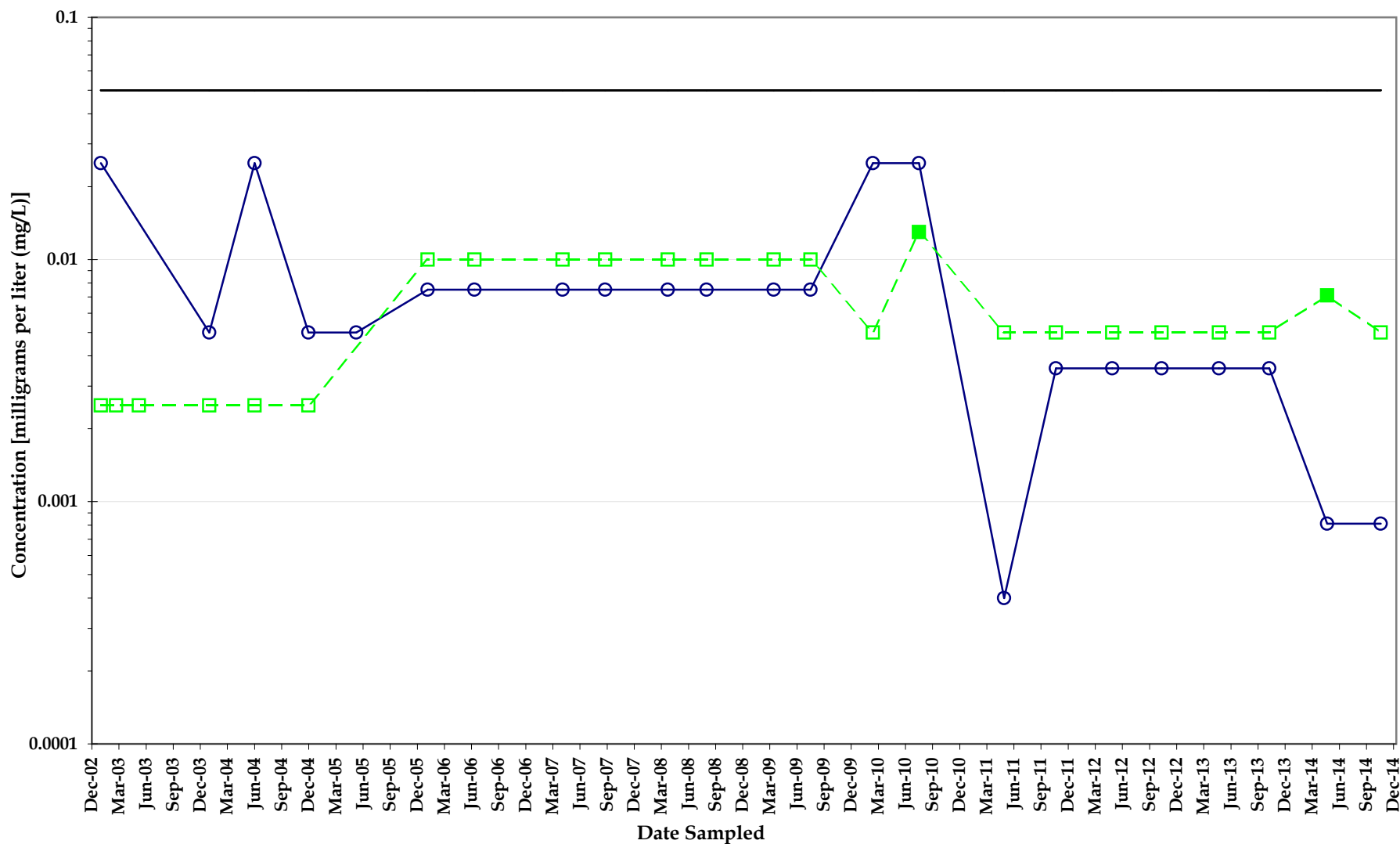


Chromium Concentrations Monitoring Well MW062SA

*North Eunice Gas Plant
Lea County, New Mexico*



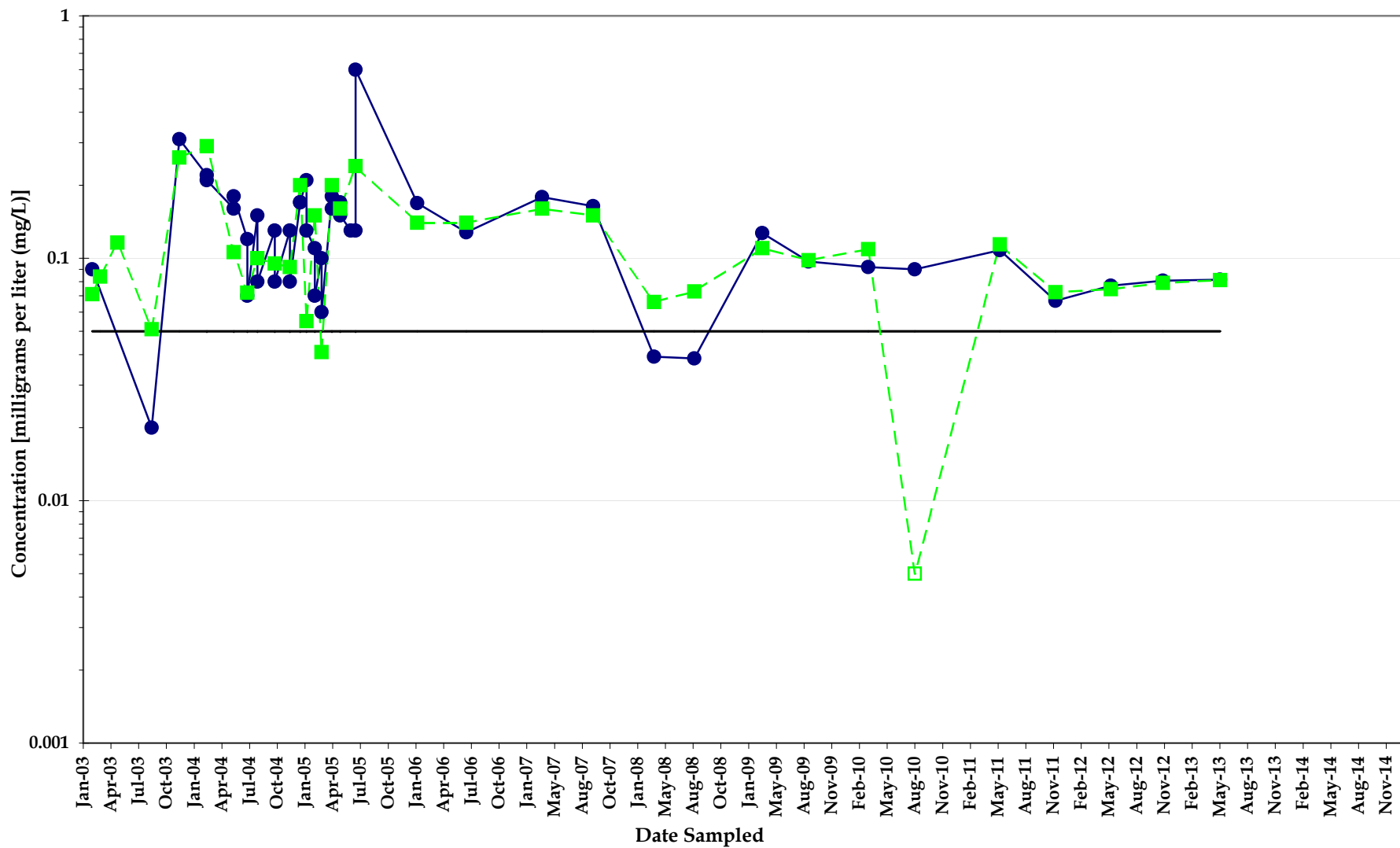
Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW063A

North Eunice Gas Plant
Lea County, New Mexico

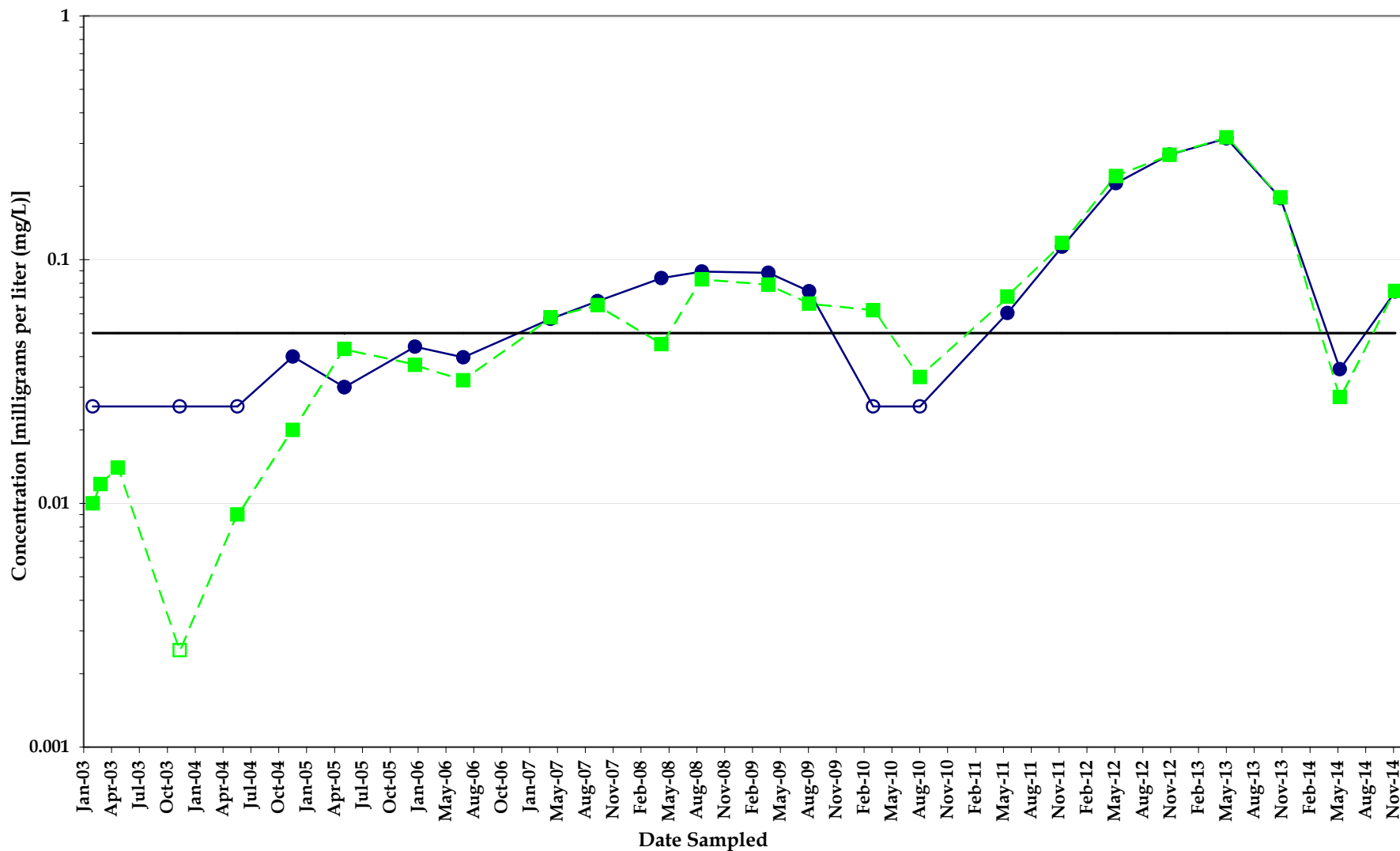


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW064SA

North Eunice Gas Plant
Lea County, New Mexico



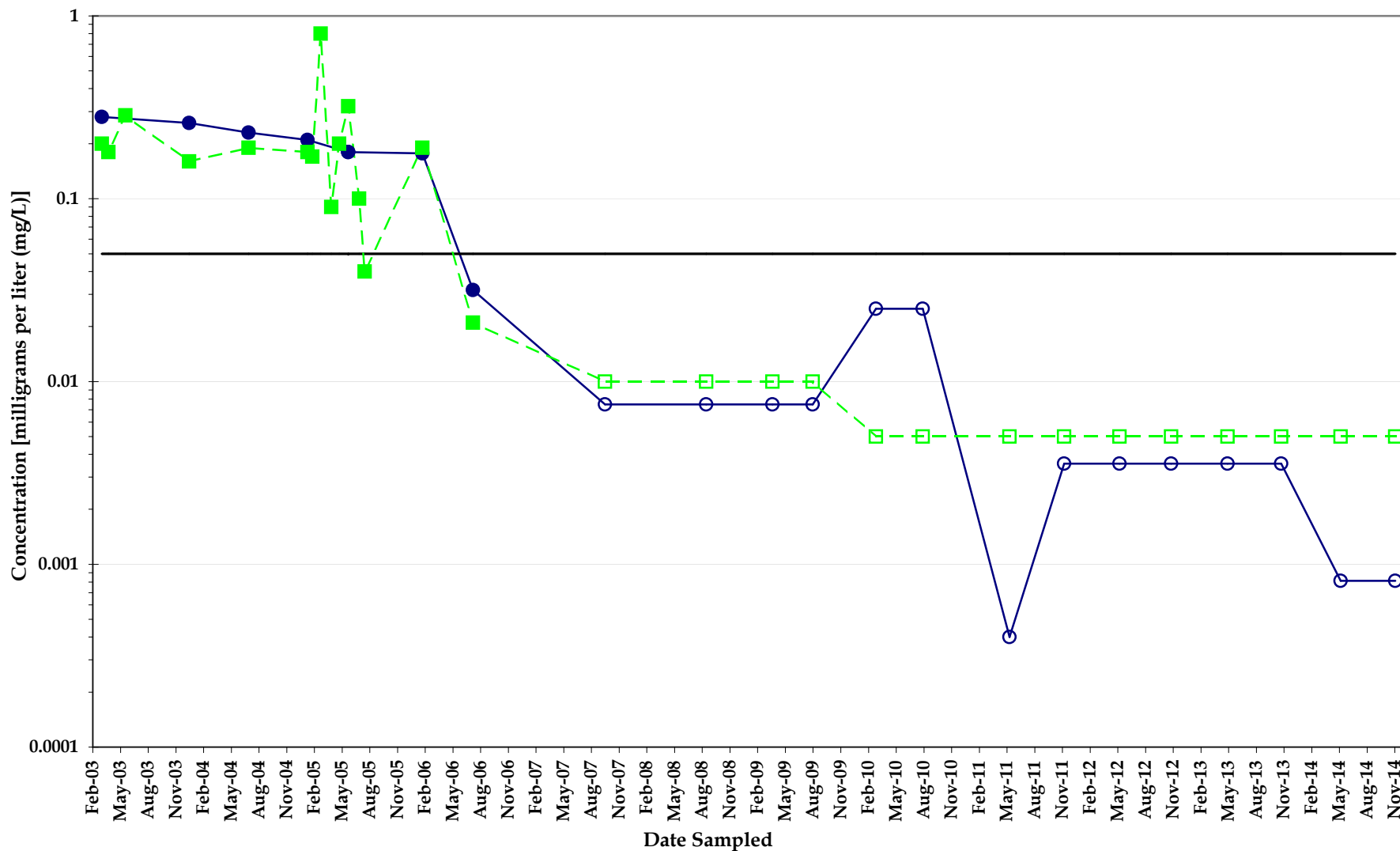


Chromium Concentrations Monitoring Well MW065SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

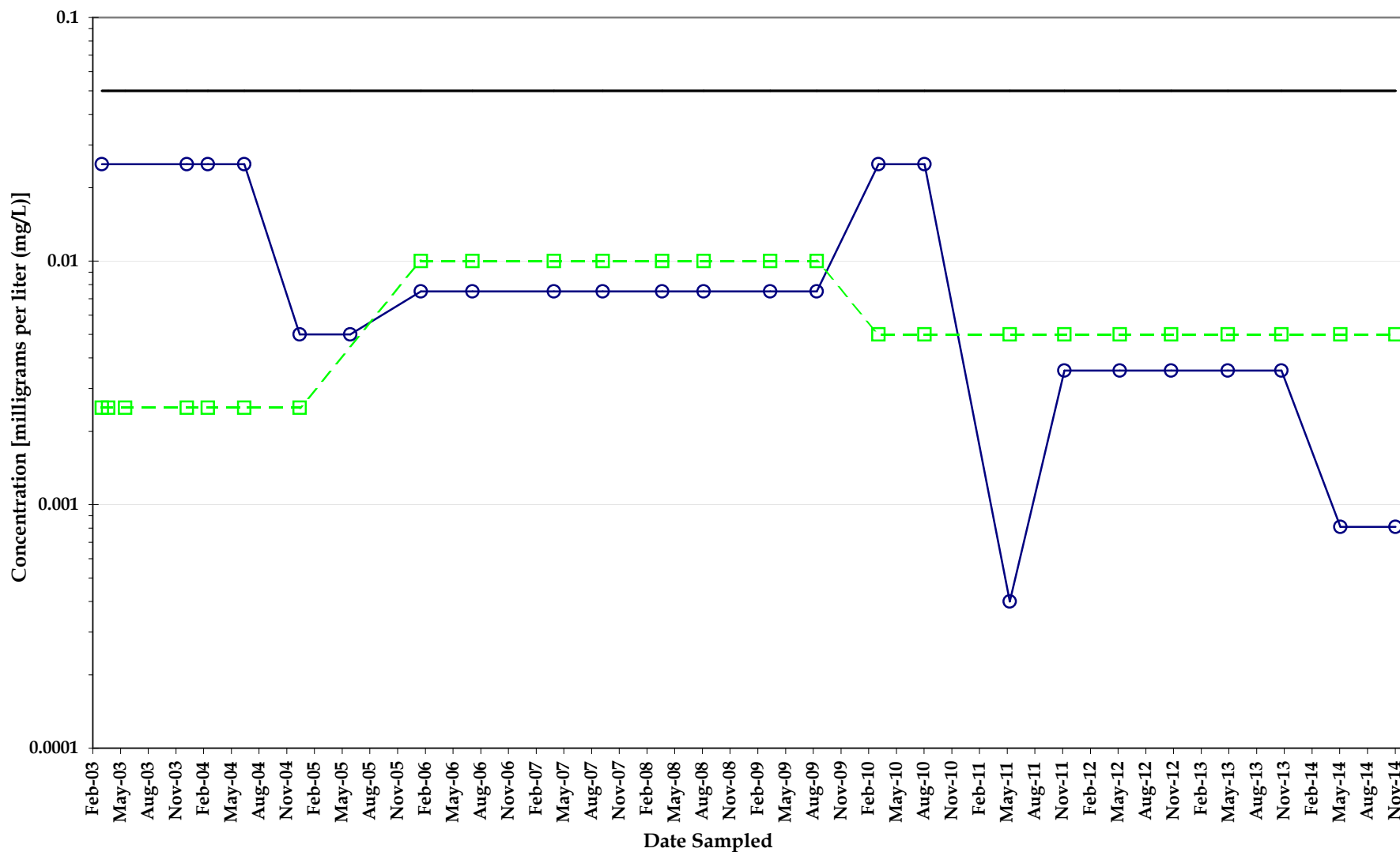


Chromium Concentrations Monitoring Well MW066SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

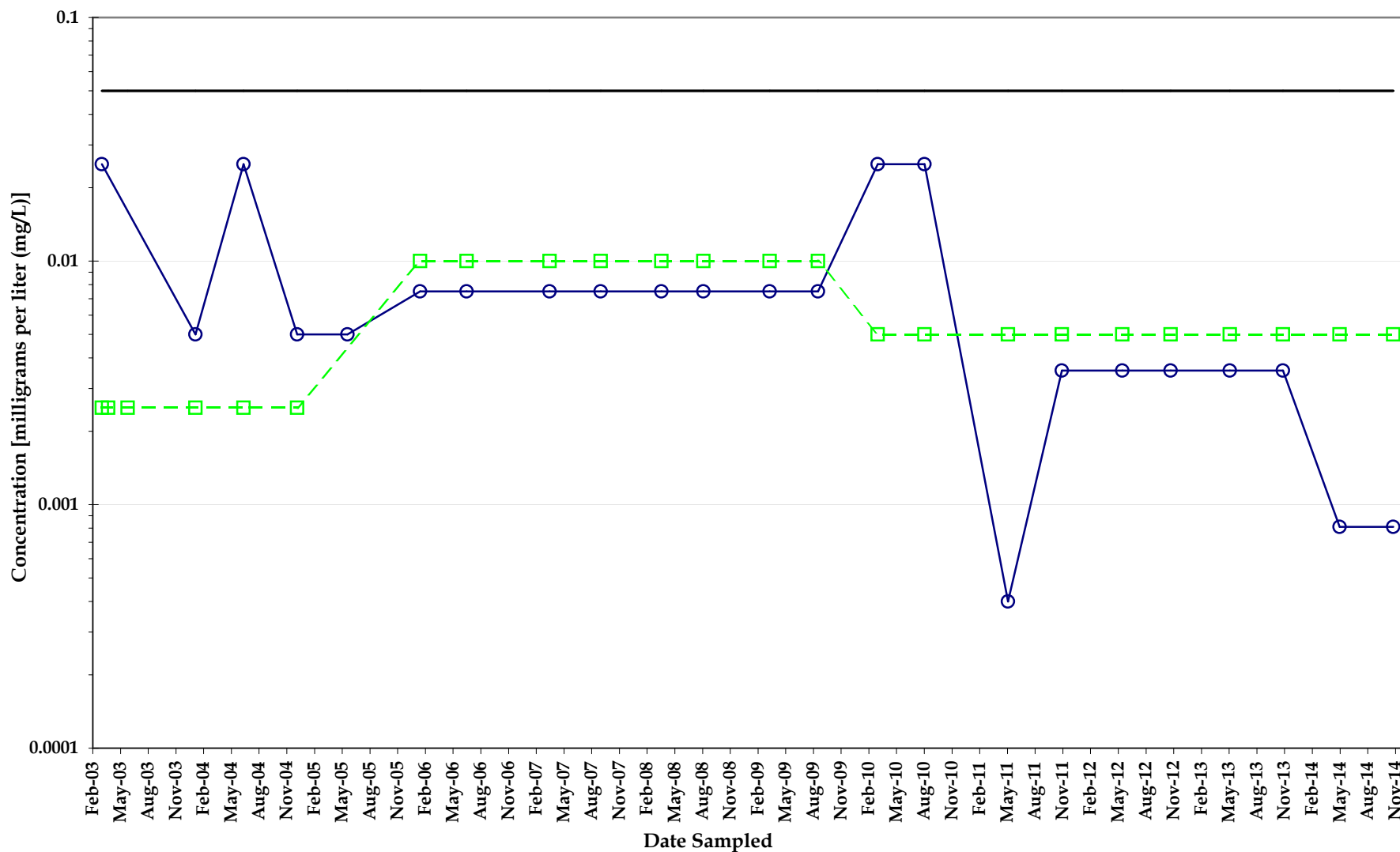


Chromium Concentrations Monitoring Well MW067SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

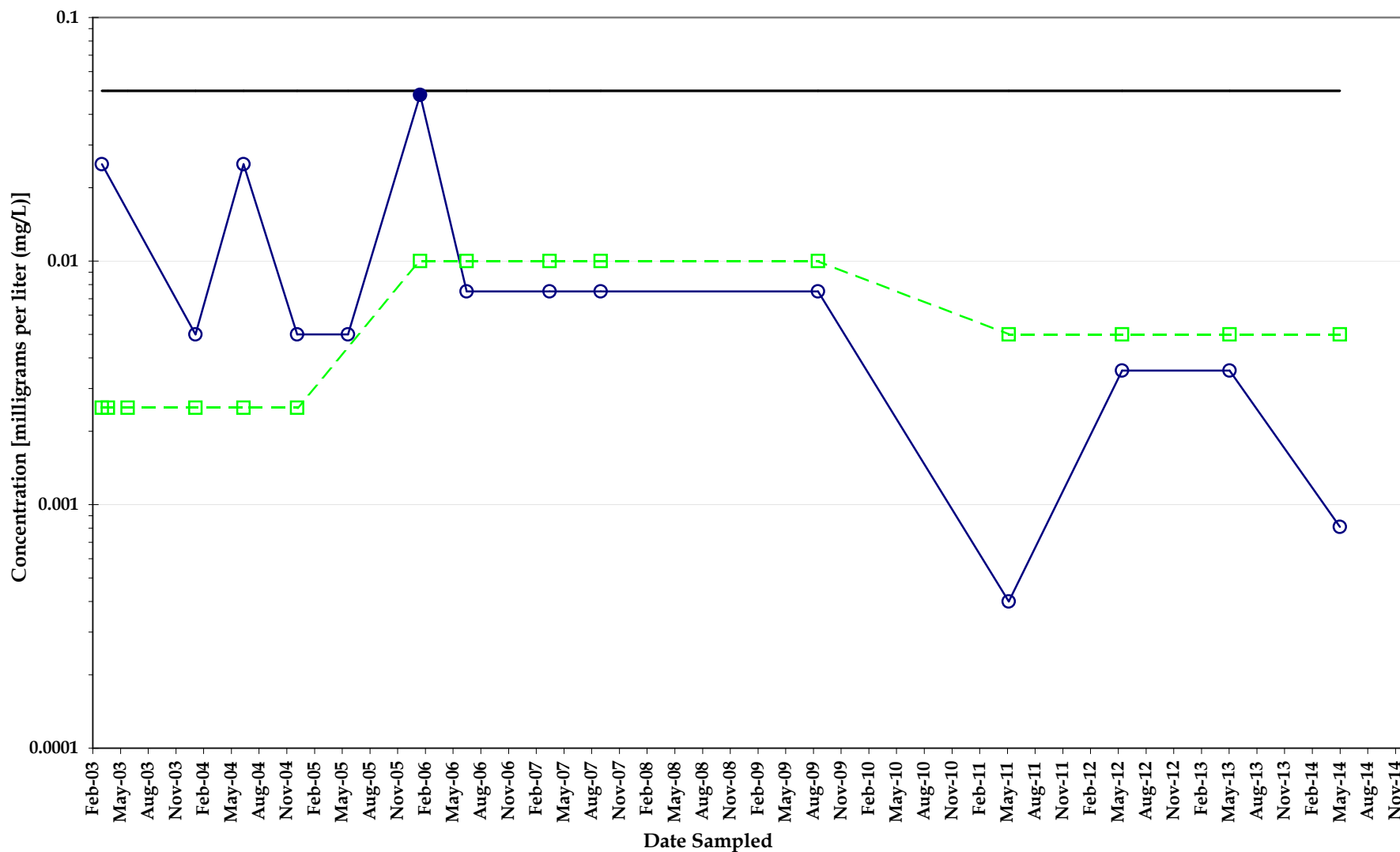


Chromium Concentrations Monitoring Well MW068

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

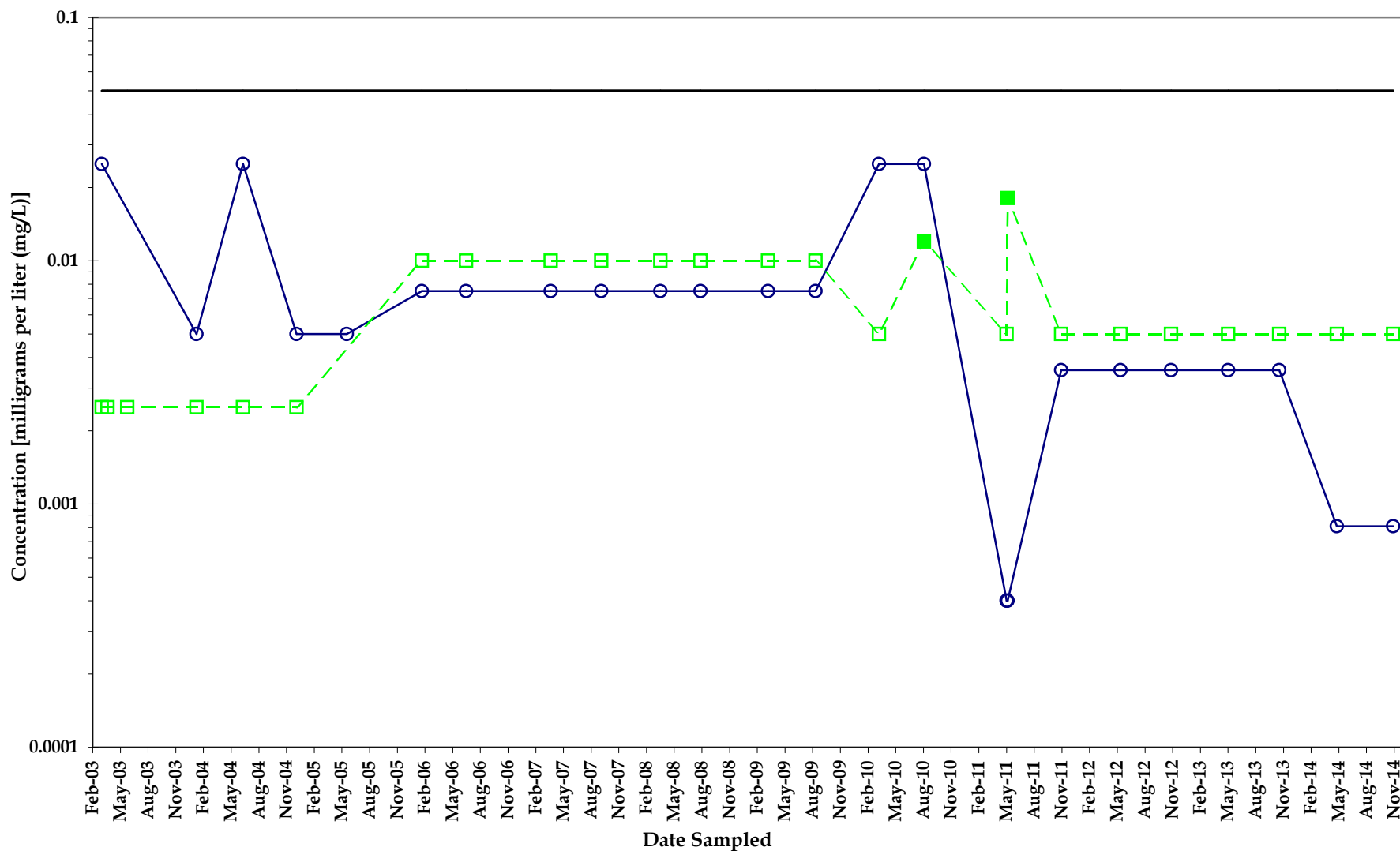


Chromium Concentrations Monitoring Well MW069

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

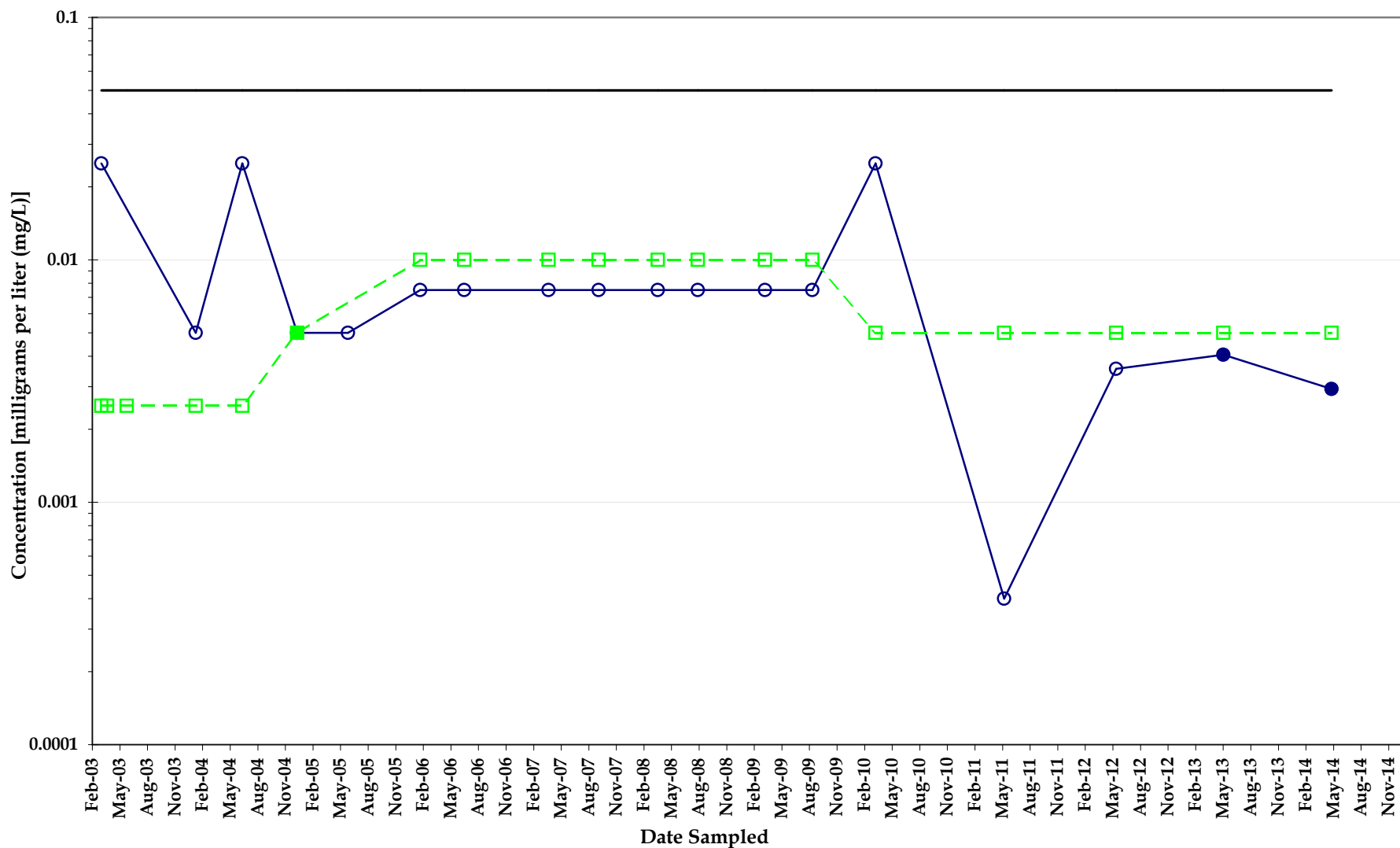


Chromium Concentrations Monitoring Well MW070

North Eunice Gas Plant
Lea County, New Mexico



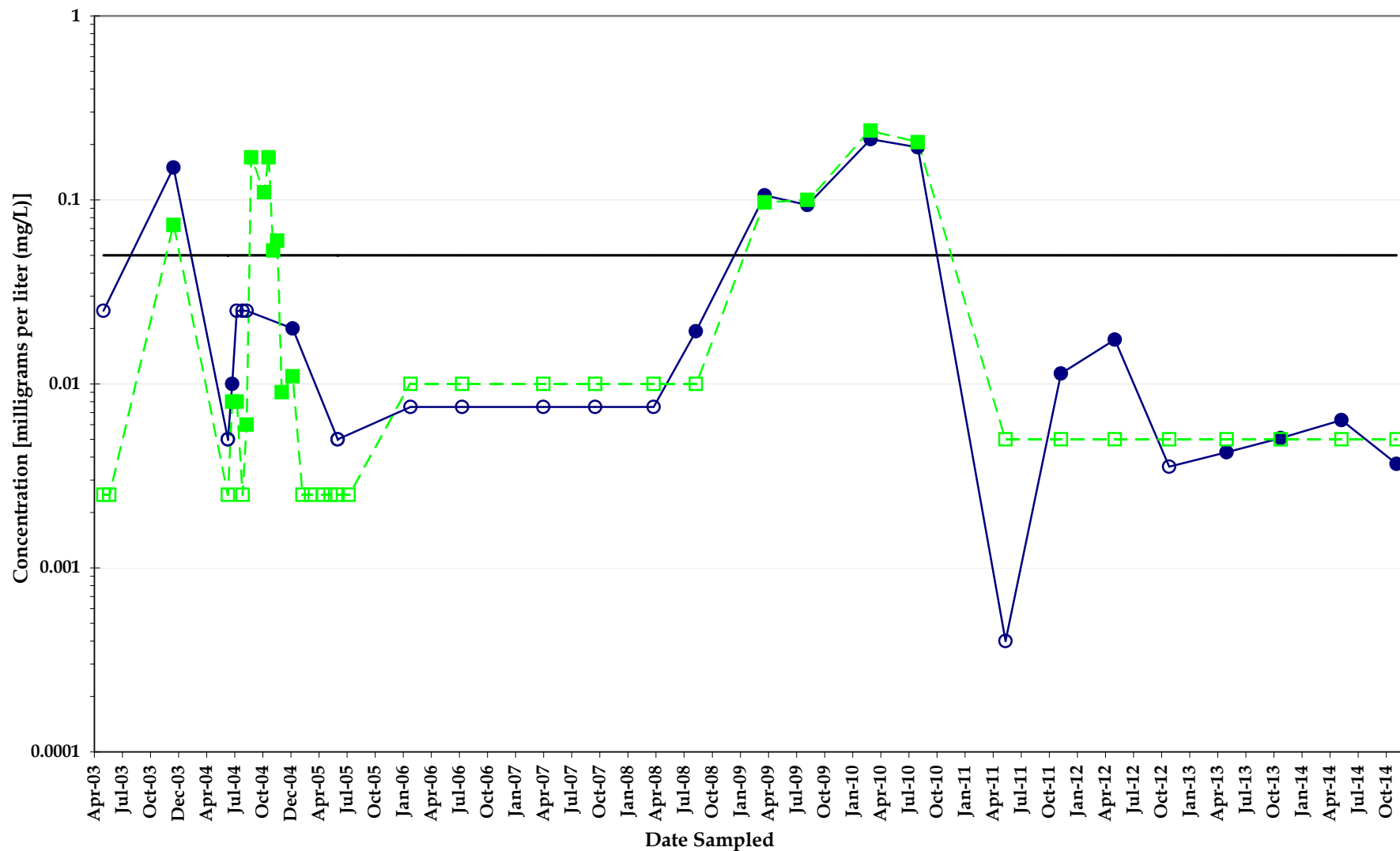
Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW070A

North Eunice Gas Plant
 Lea County, New Mexico

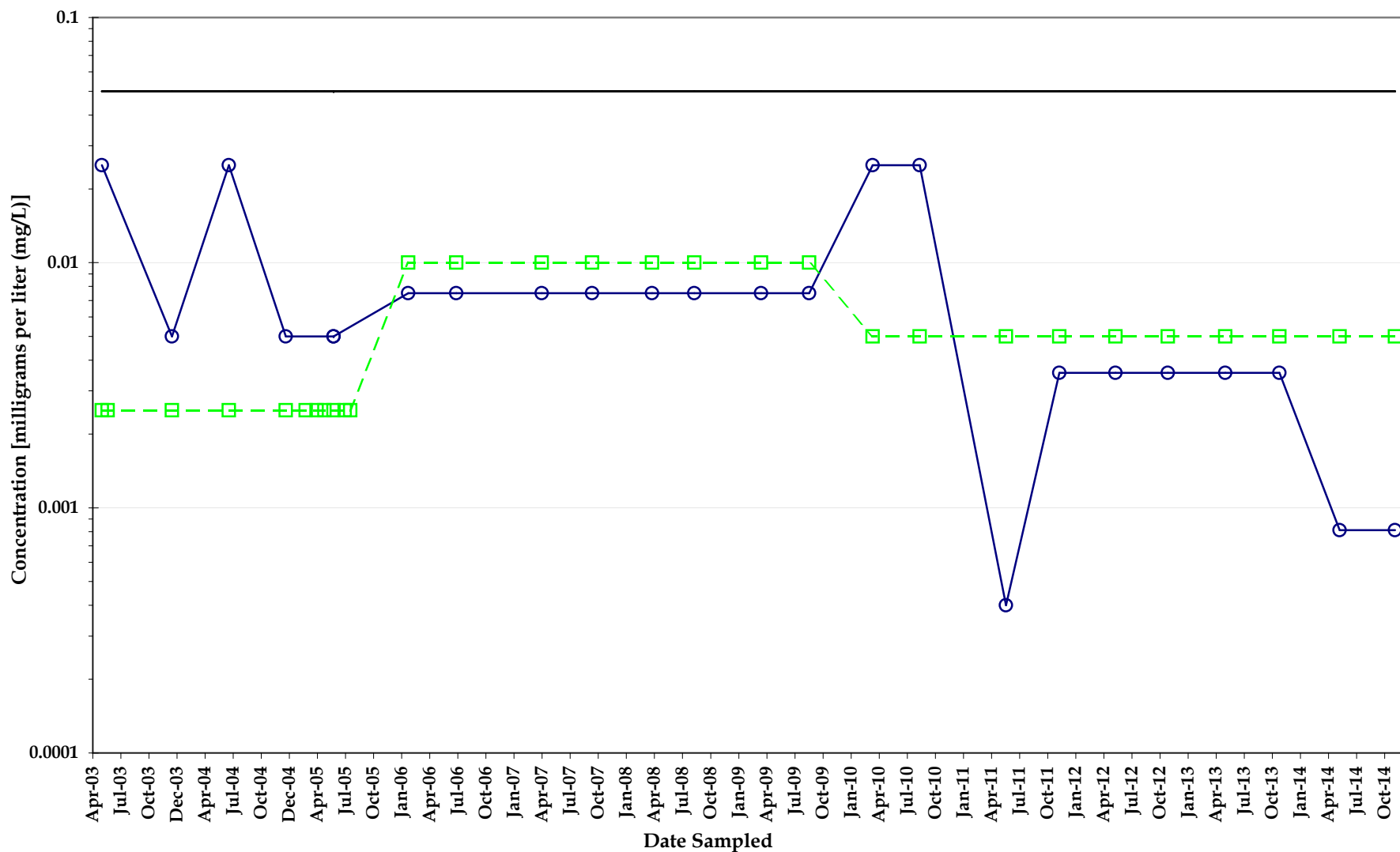


Chromium Concentrations Monitoring Well MW071SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

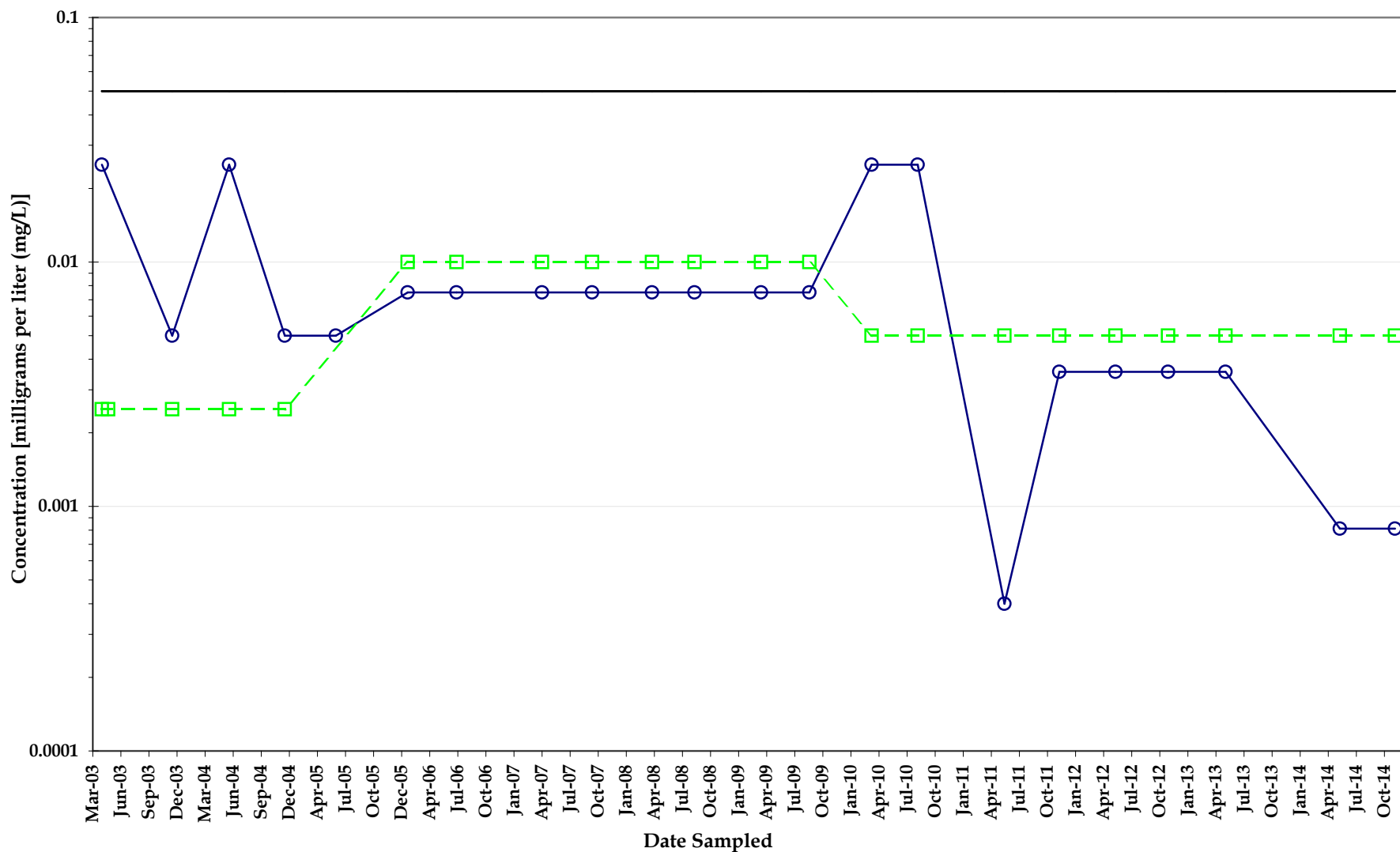


Chromium Concentrations Monitoring Well MW072SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

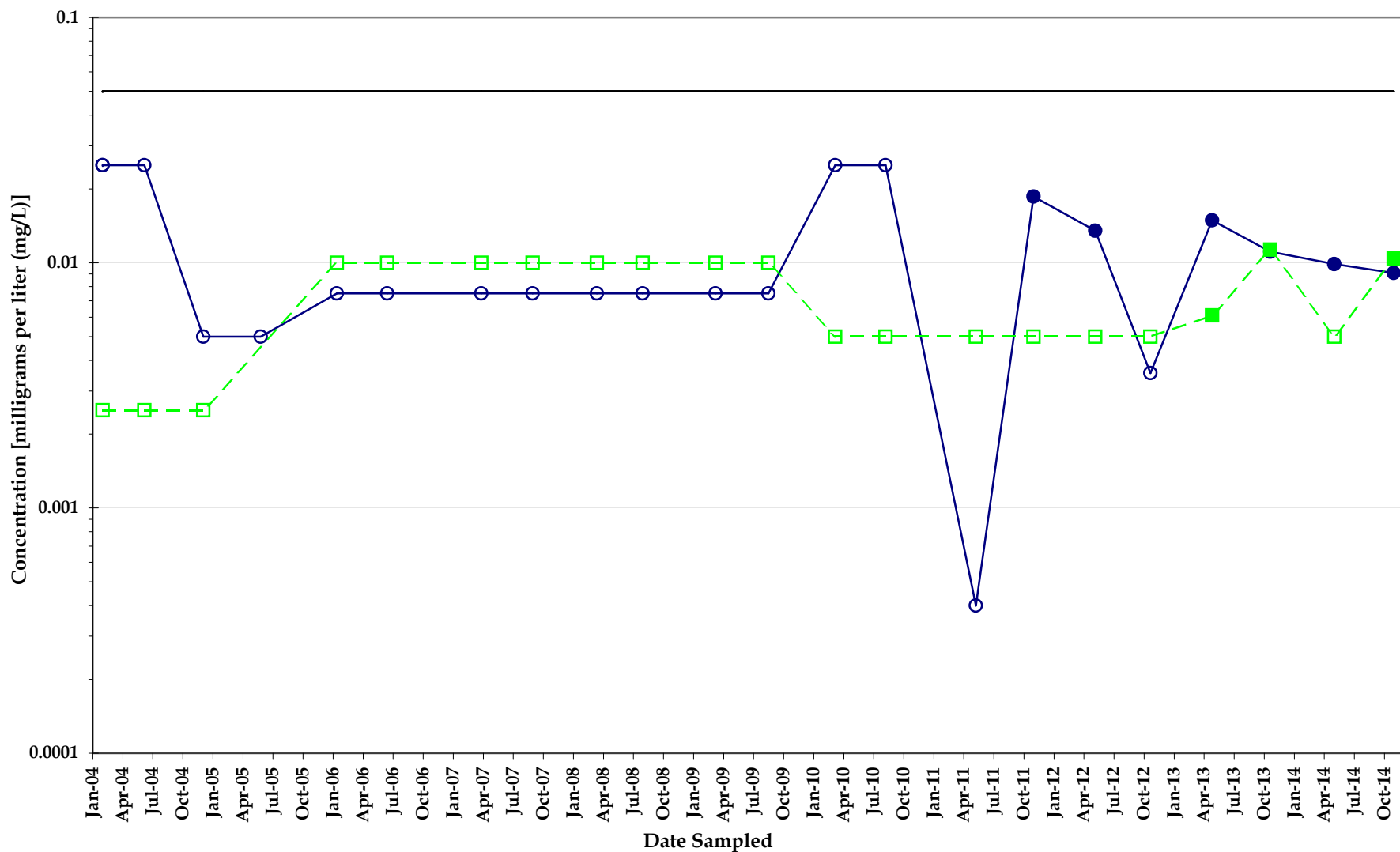


Chromium Concentrations Monitoring Well MW073SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

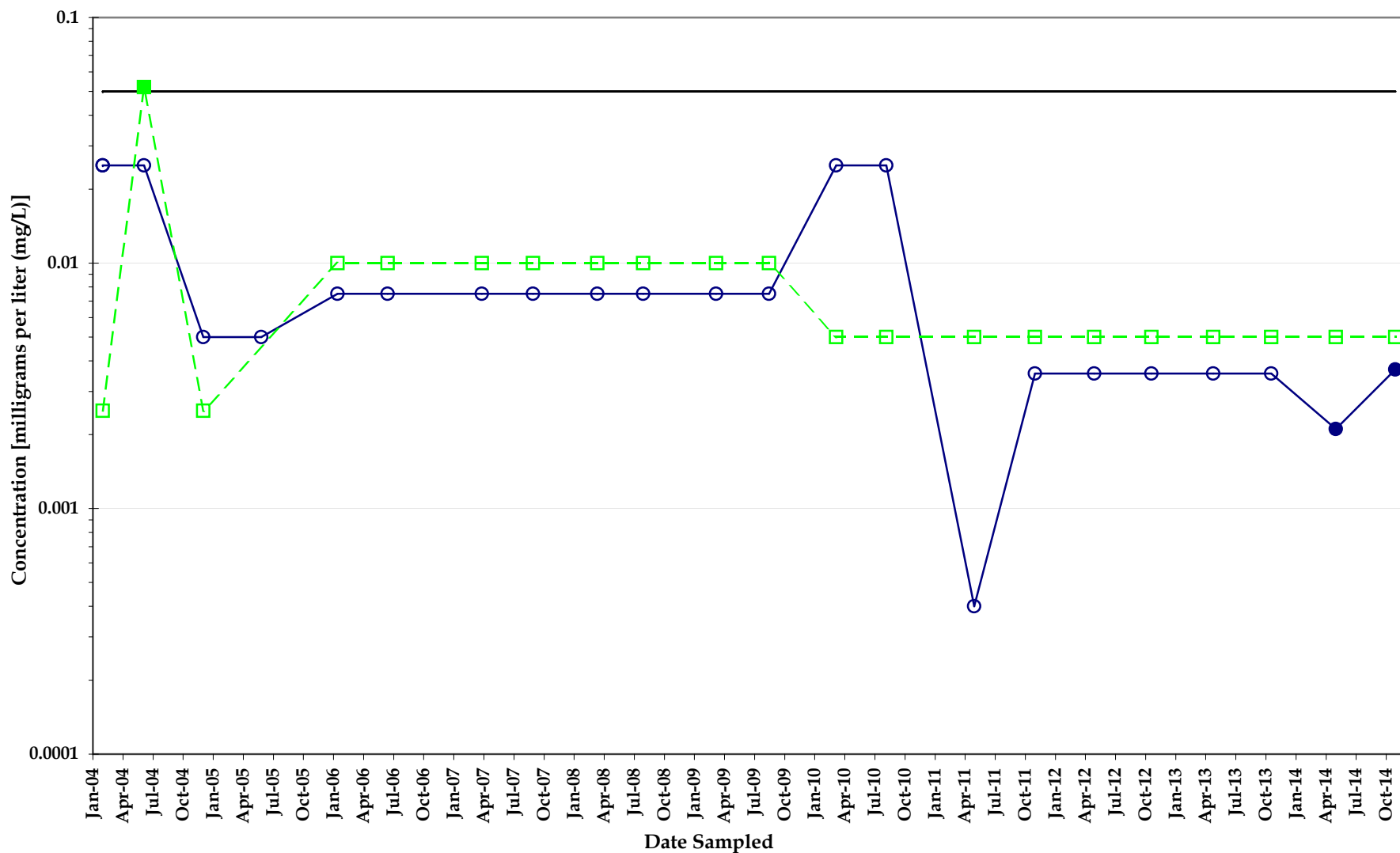


Chromium Concentrations Monitoring Well MW074SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

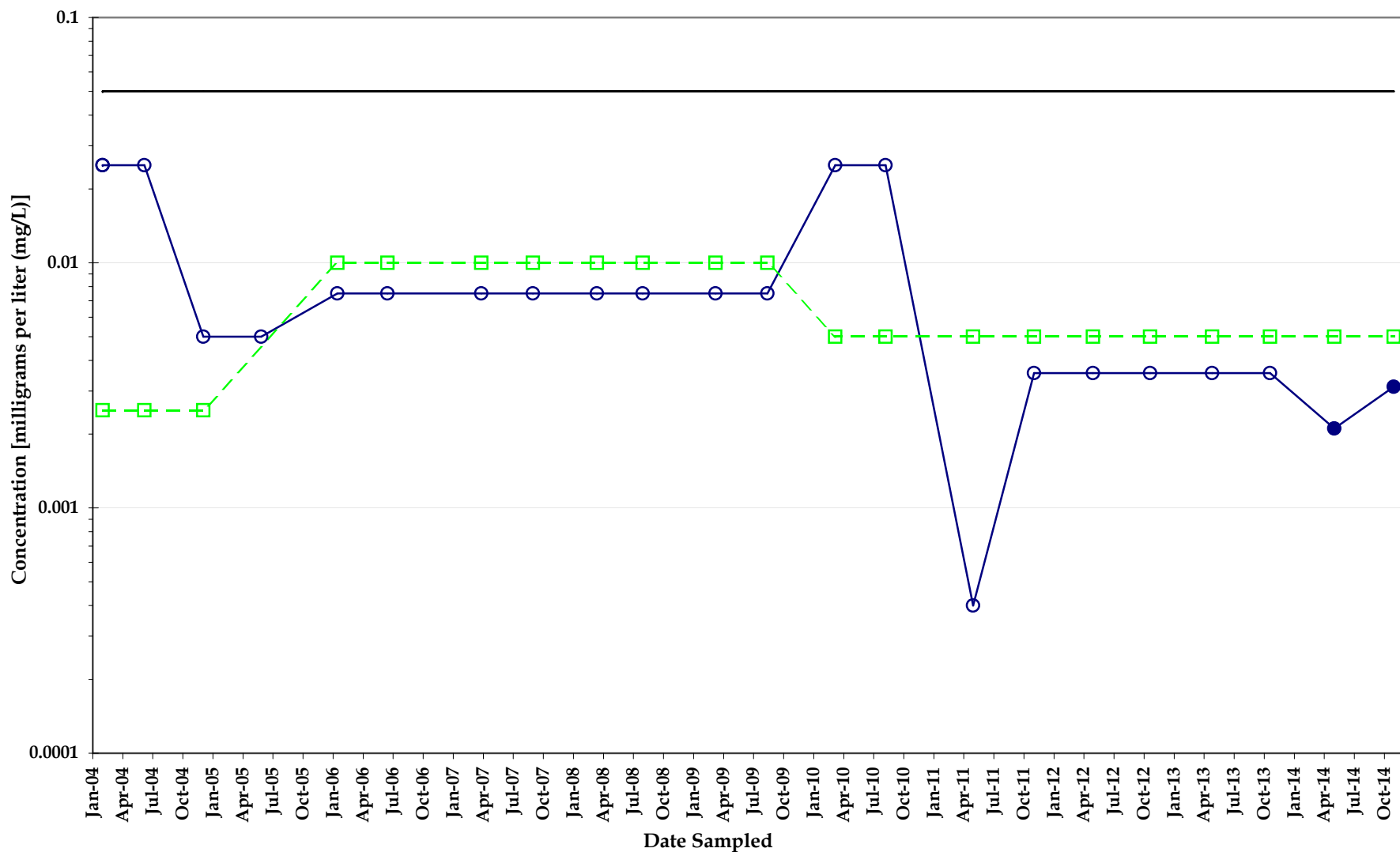


Chromium Concentrations Monitoring Well MW075SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

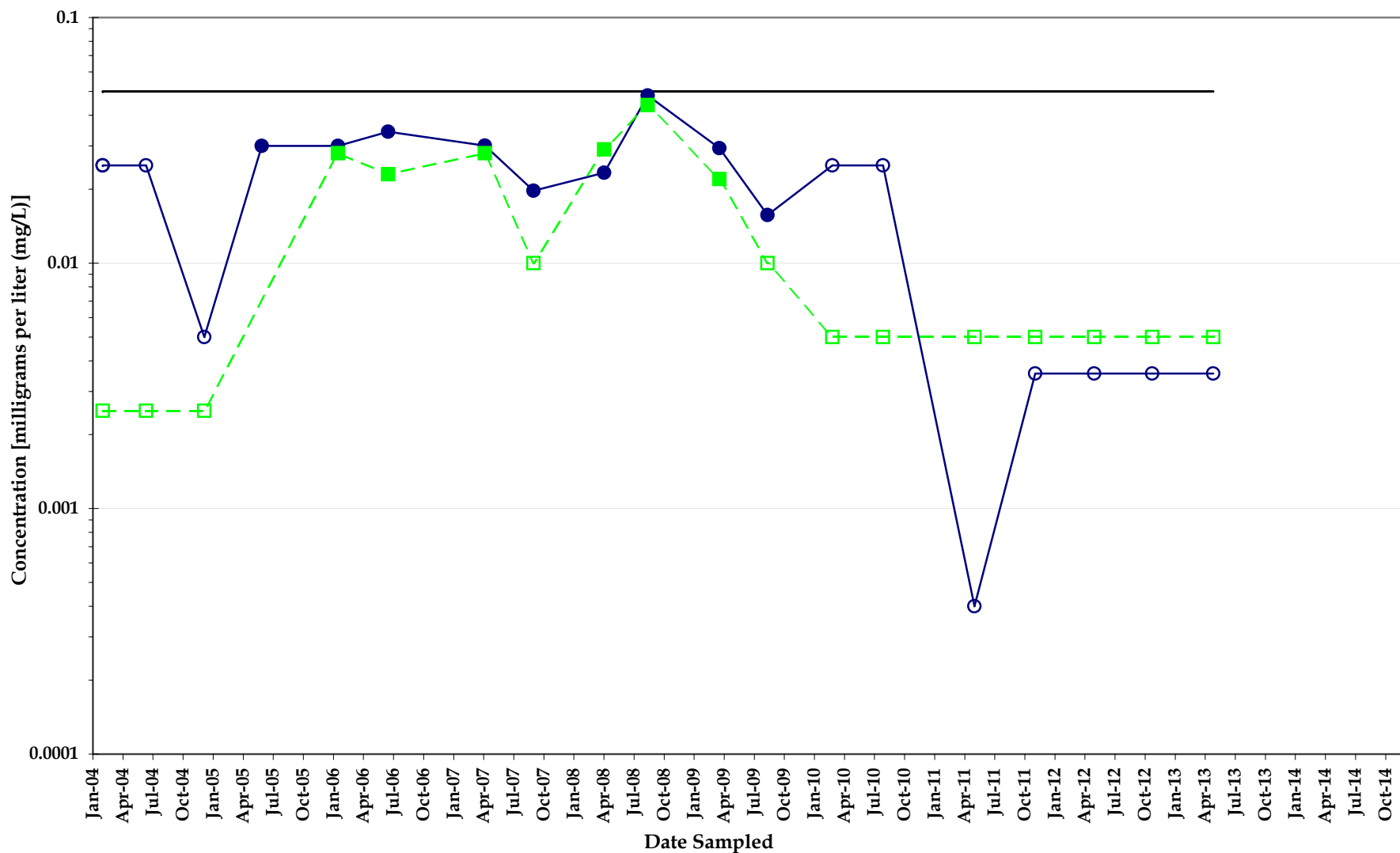


Chromium Concentrations Monitoring Well MW076SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

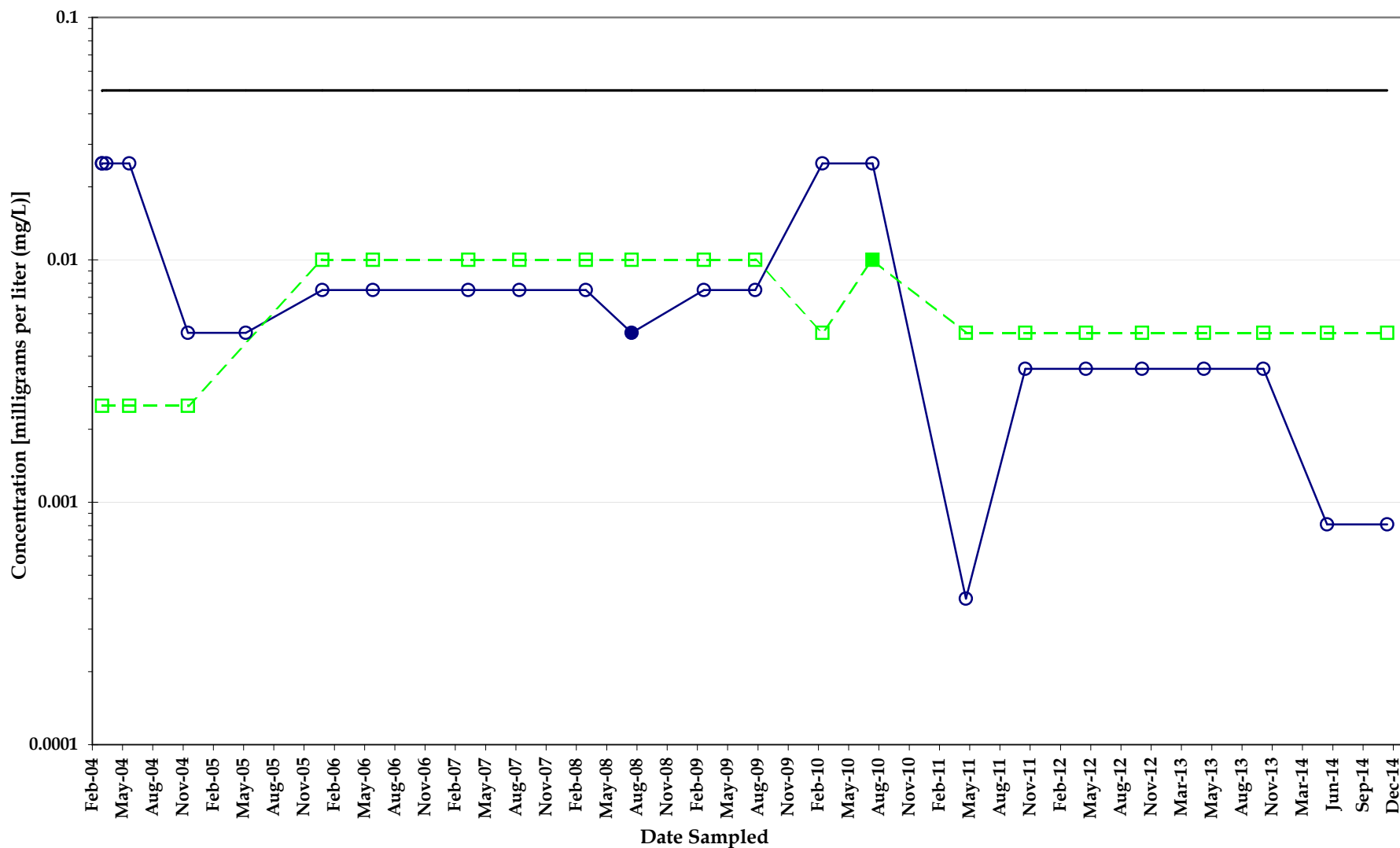


Chromium Concentrations Monitoring Well MW077SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

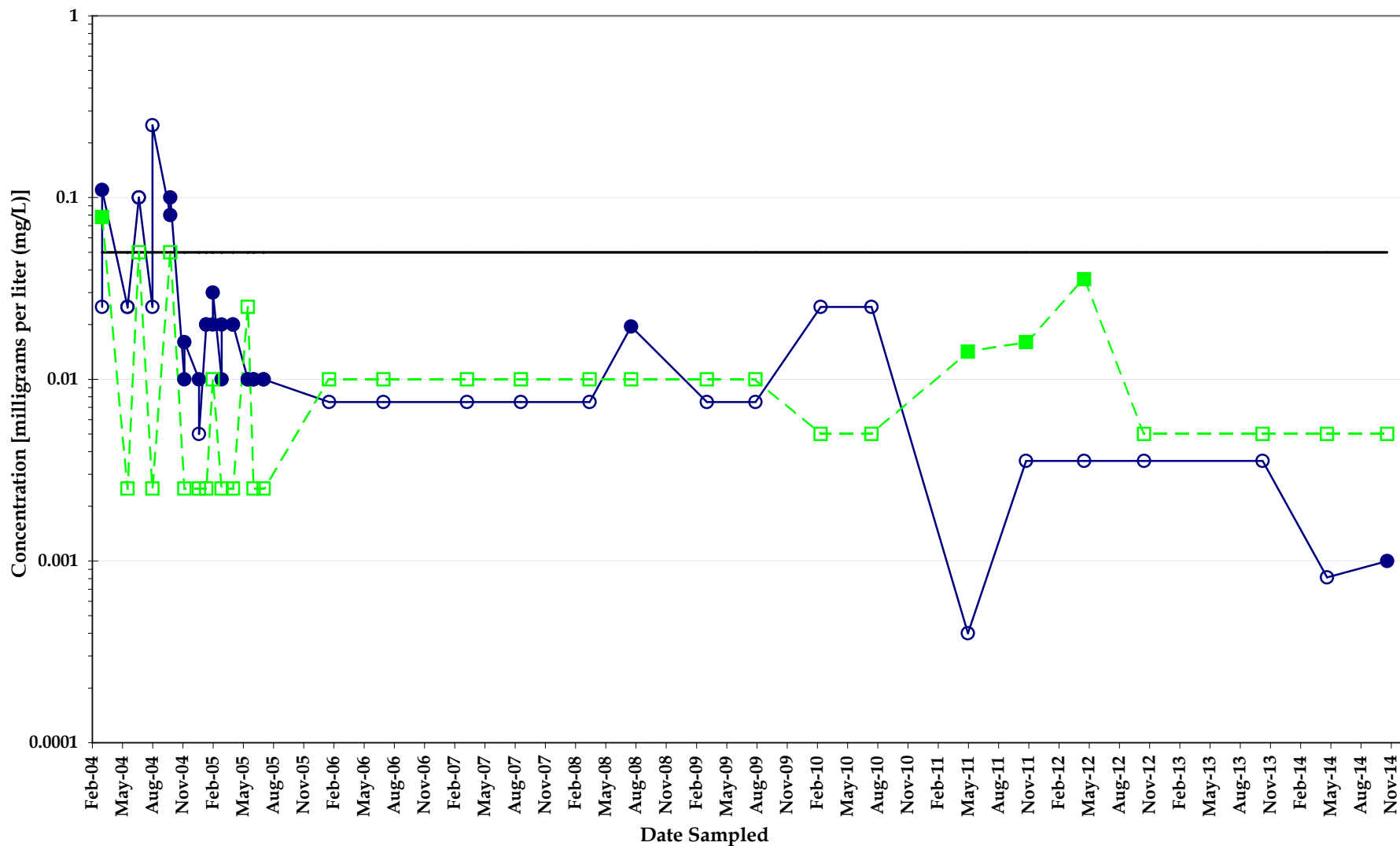


Chromium Concentrations Monitoring Well MW078SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

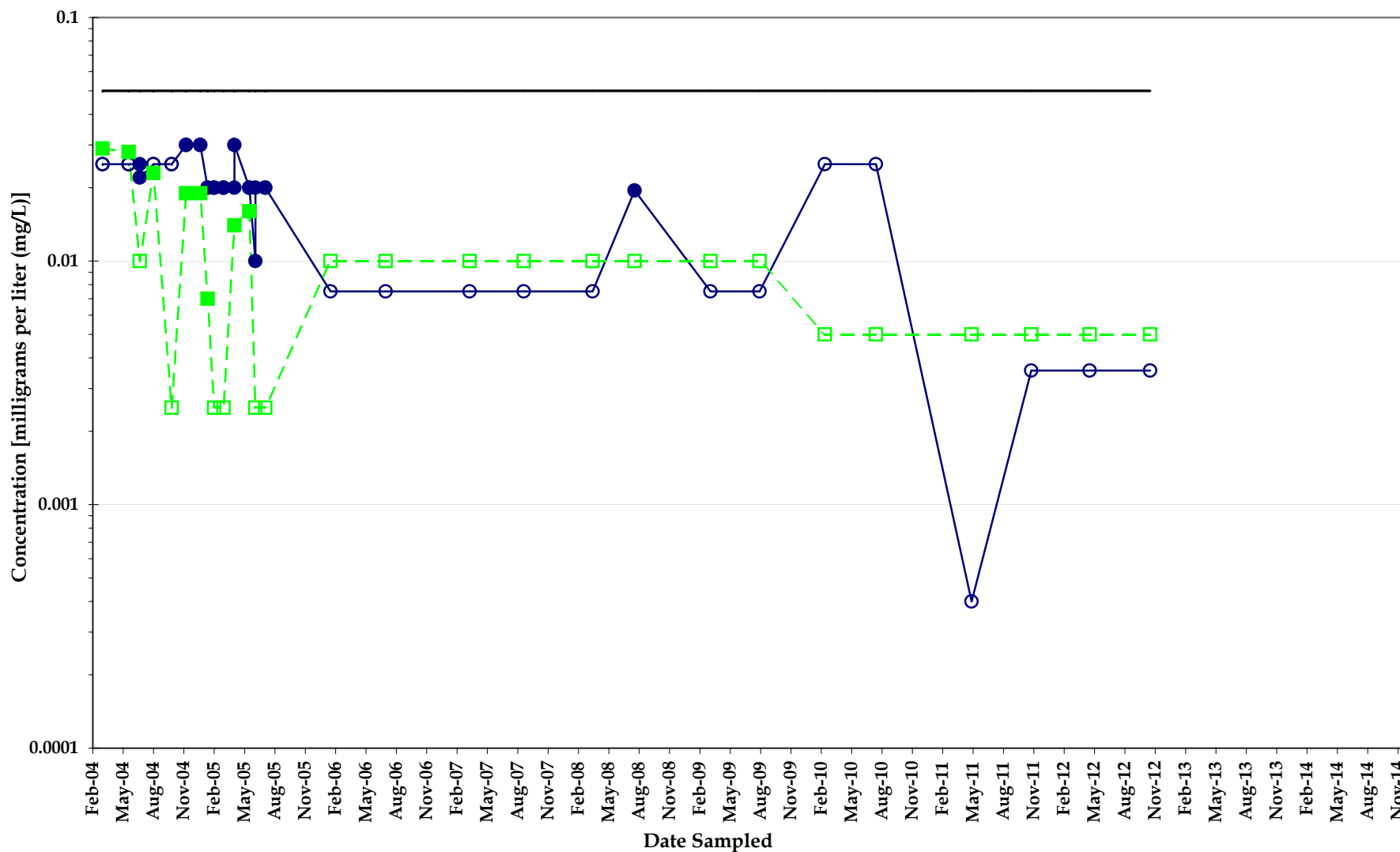


Chromium Concentrations Monitoring Well MW079SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

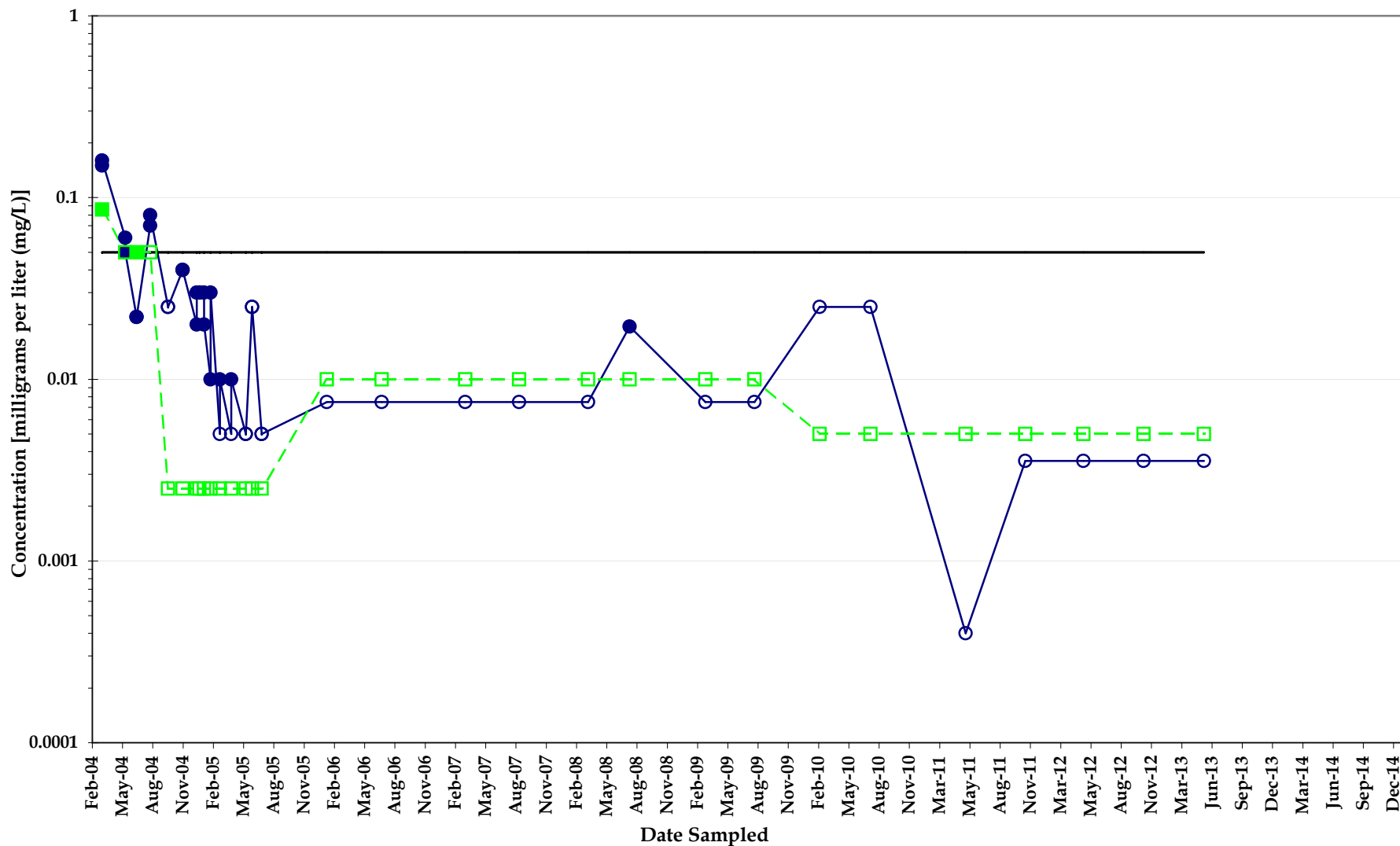


Chromium Concentrations Monitoring Well MW080SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

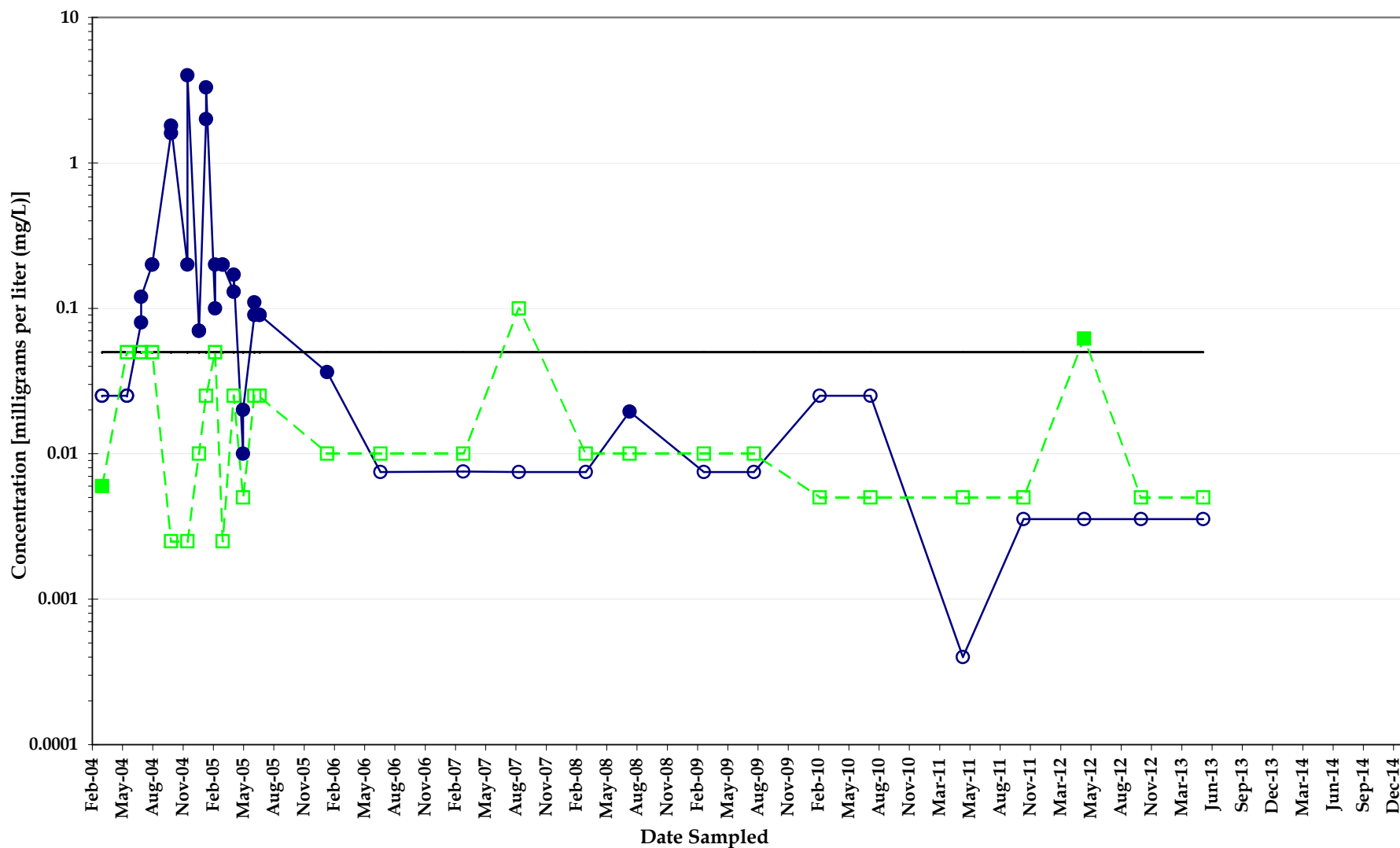


Chromium Concentrations Monitoring Well MW081SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



Chromium Detects Non-Detects NMWQCC

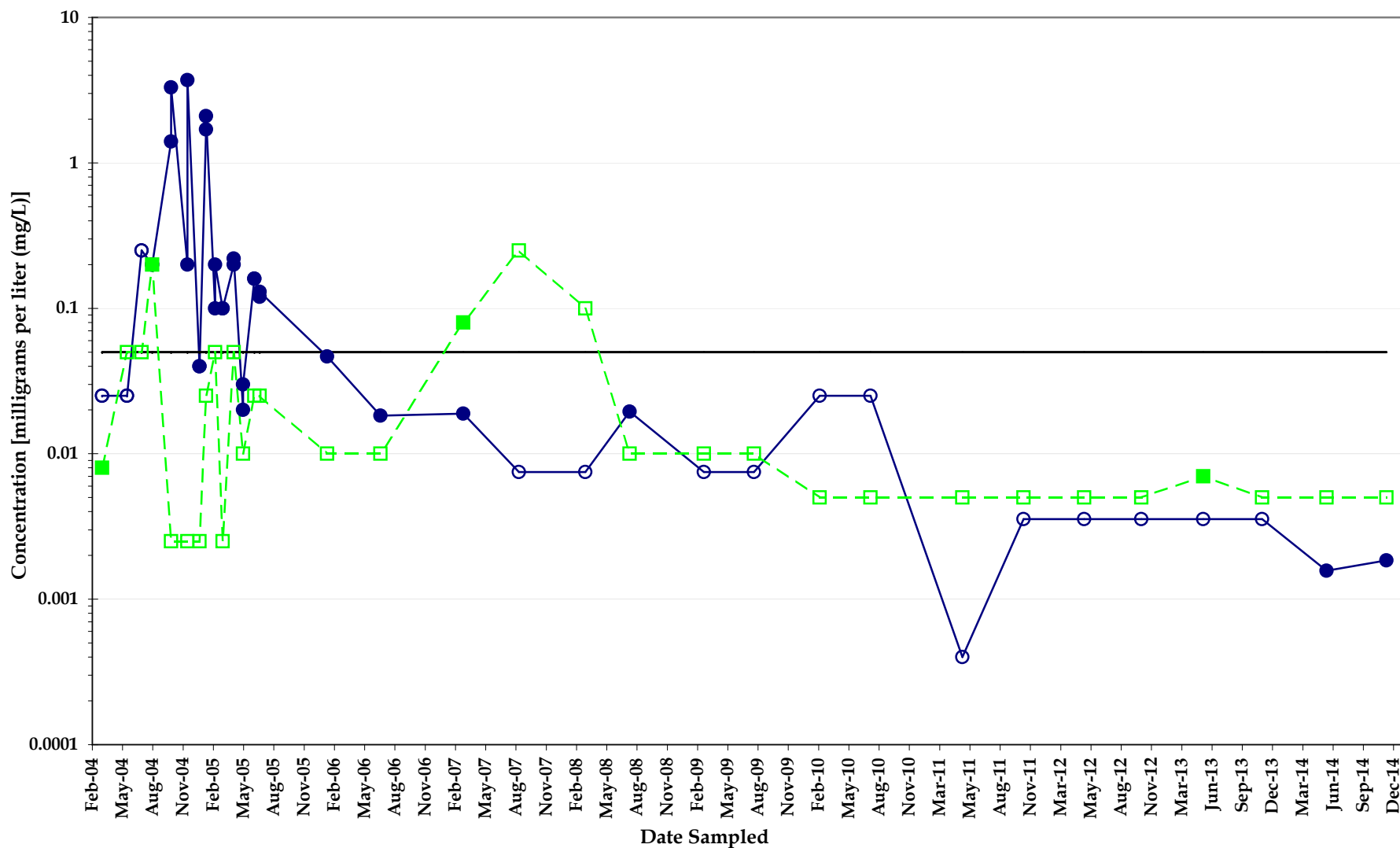
Hexavalent Chromium Detects Non-Detects

Chromium Concentrations Monitoring Well MW082SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



Chromium Detects Non-Detects NMWQCC

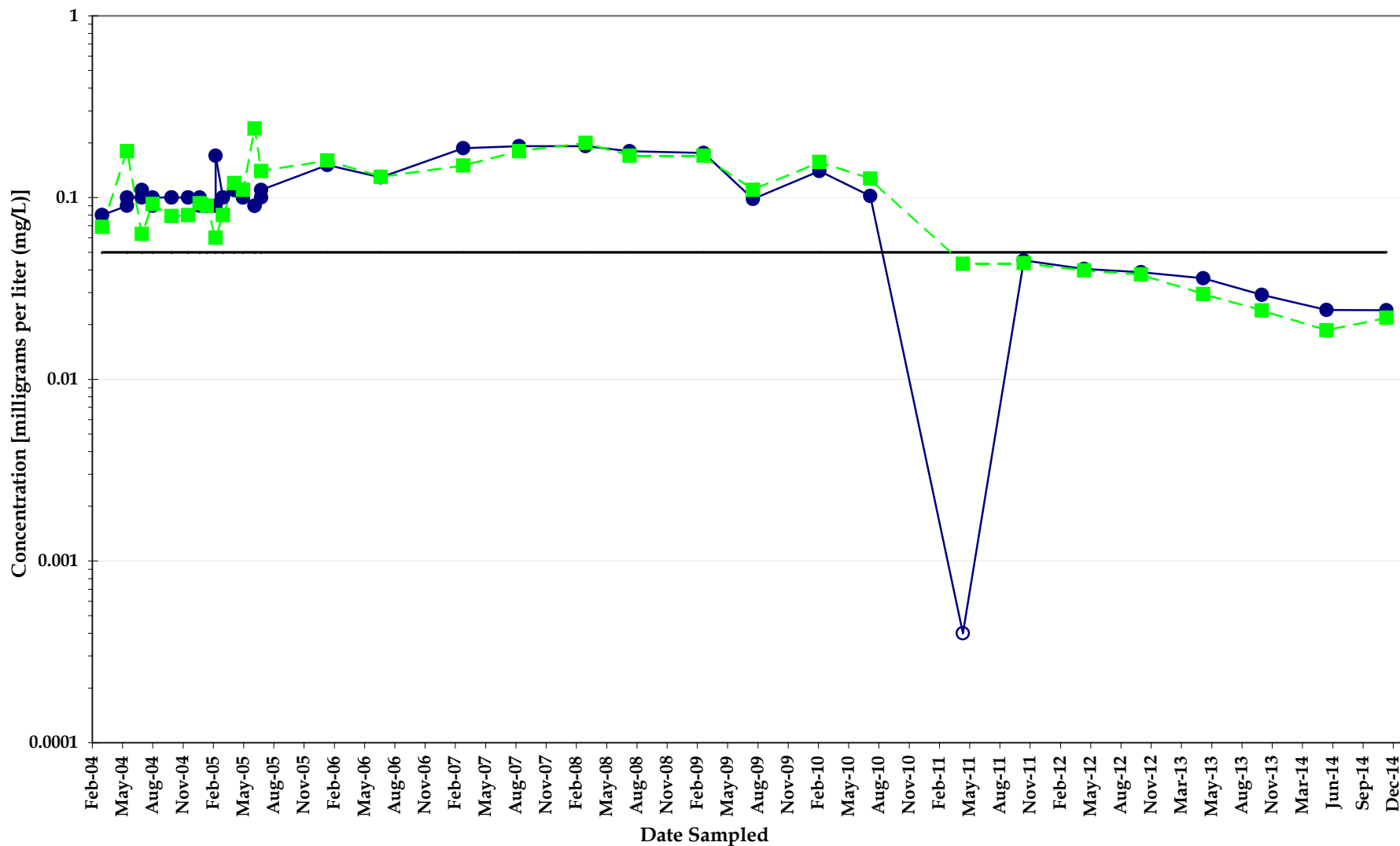
Hexavalent Chromium Detects Non-Detects

Chromium Concentrations Monitoring Well MW083SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

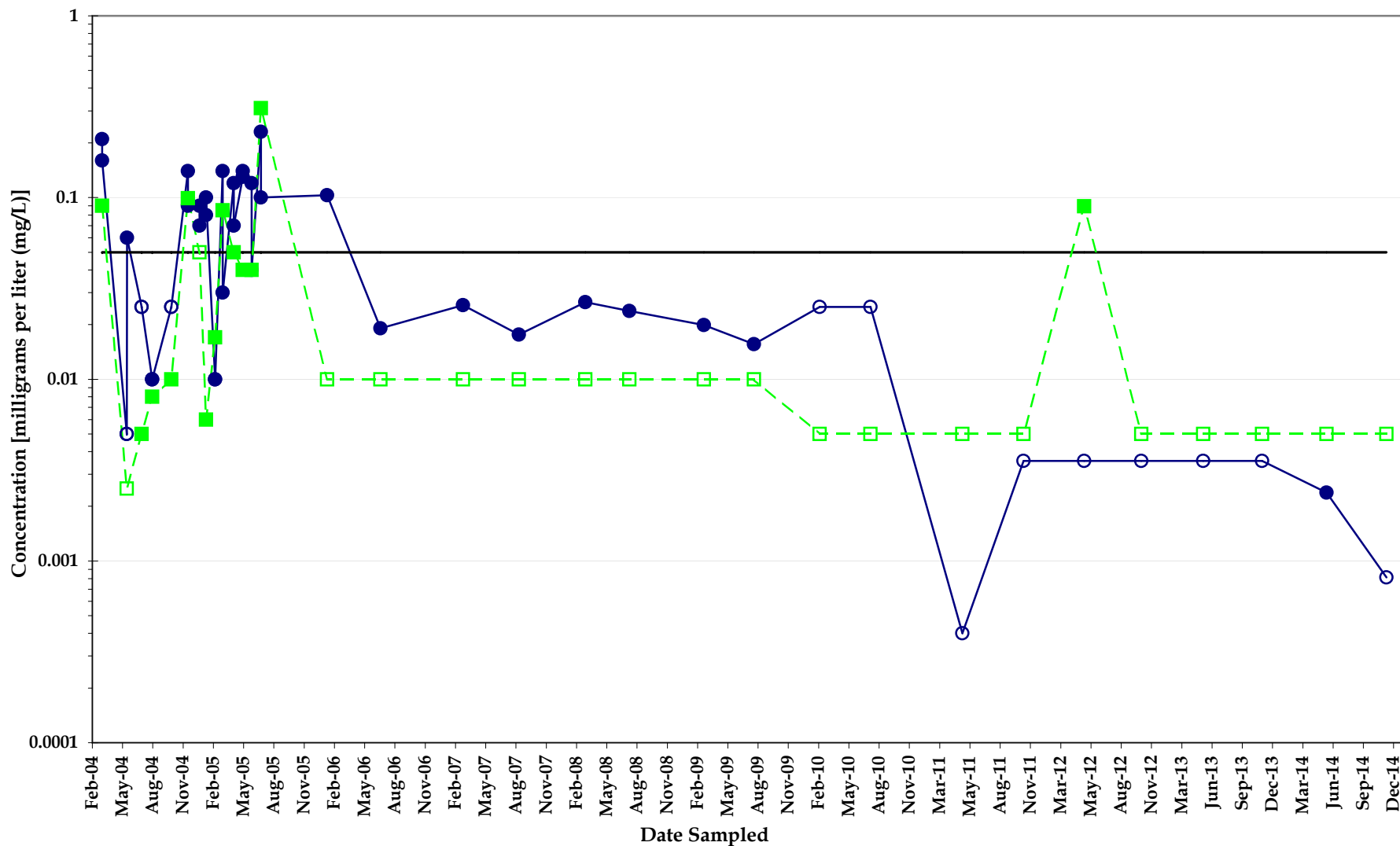


Chromium Concentrations Monitoring Well MW084SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

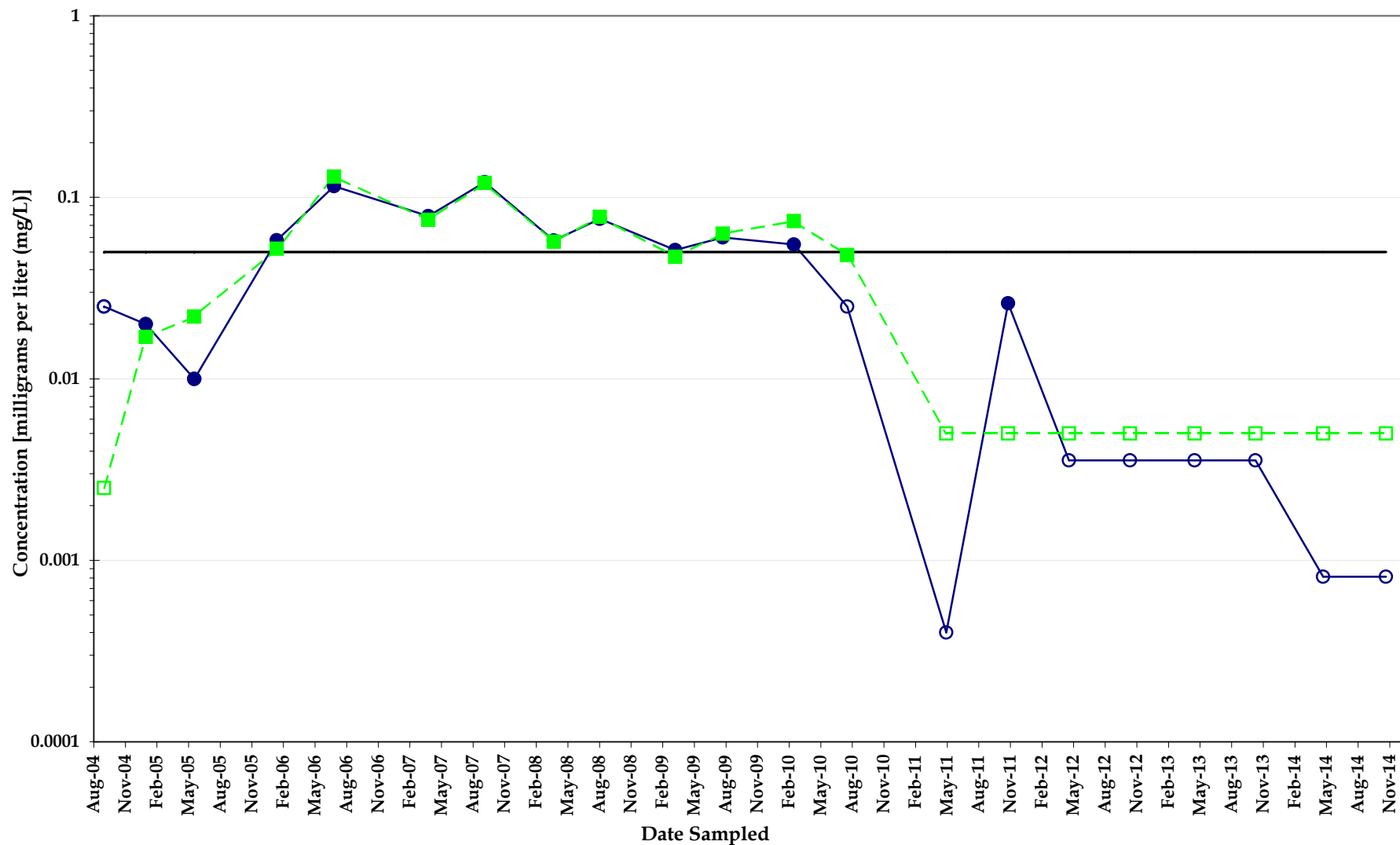


Chromium Concentrations Monitoring Well MW085SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

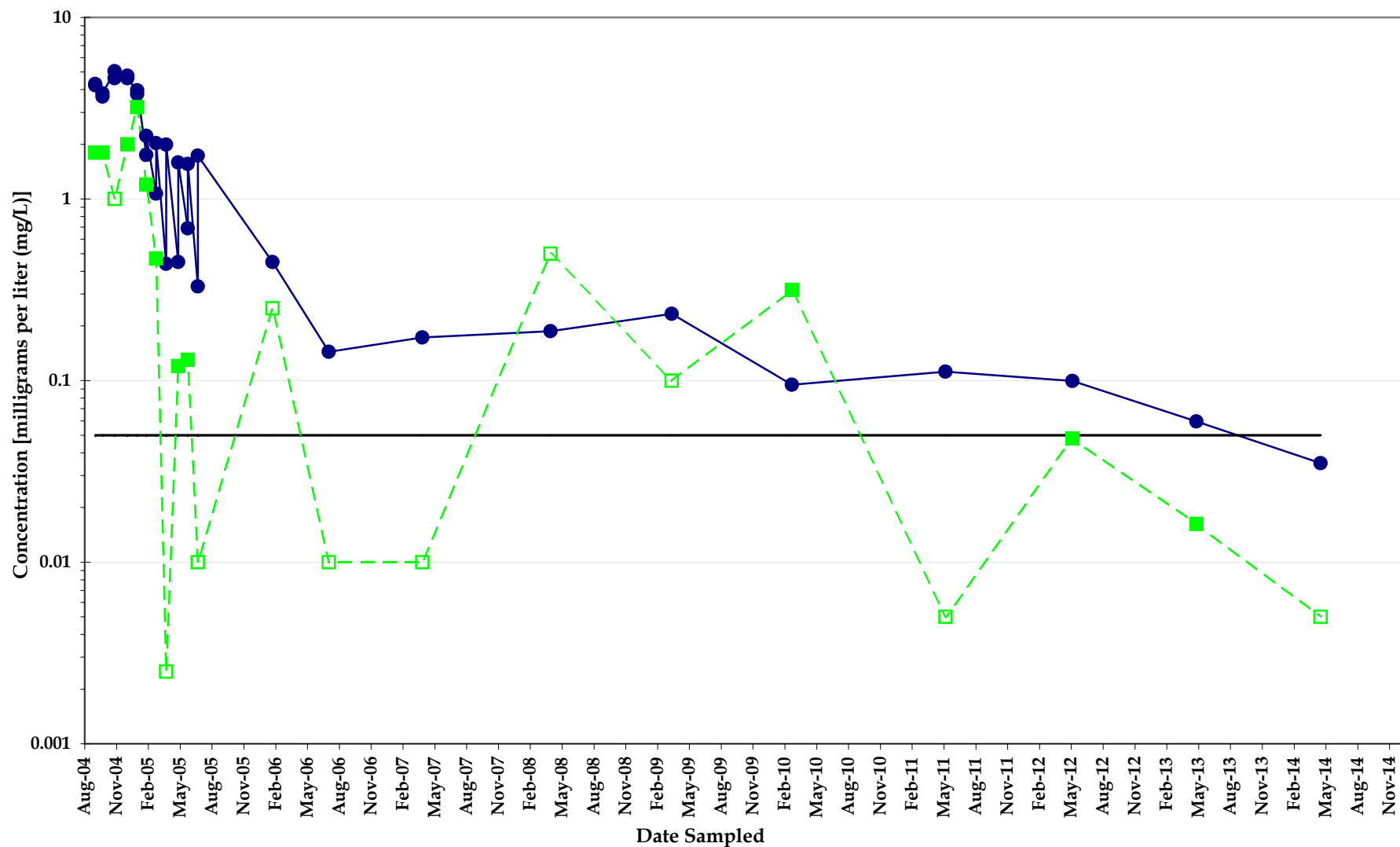


Chromium Concentrations Monitoring Well MW086SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

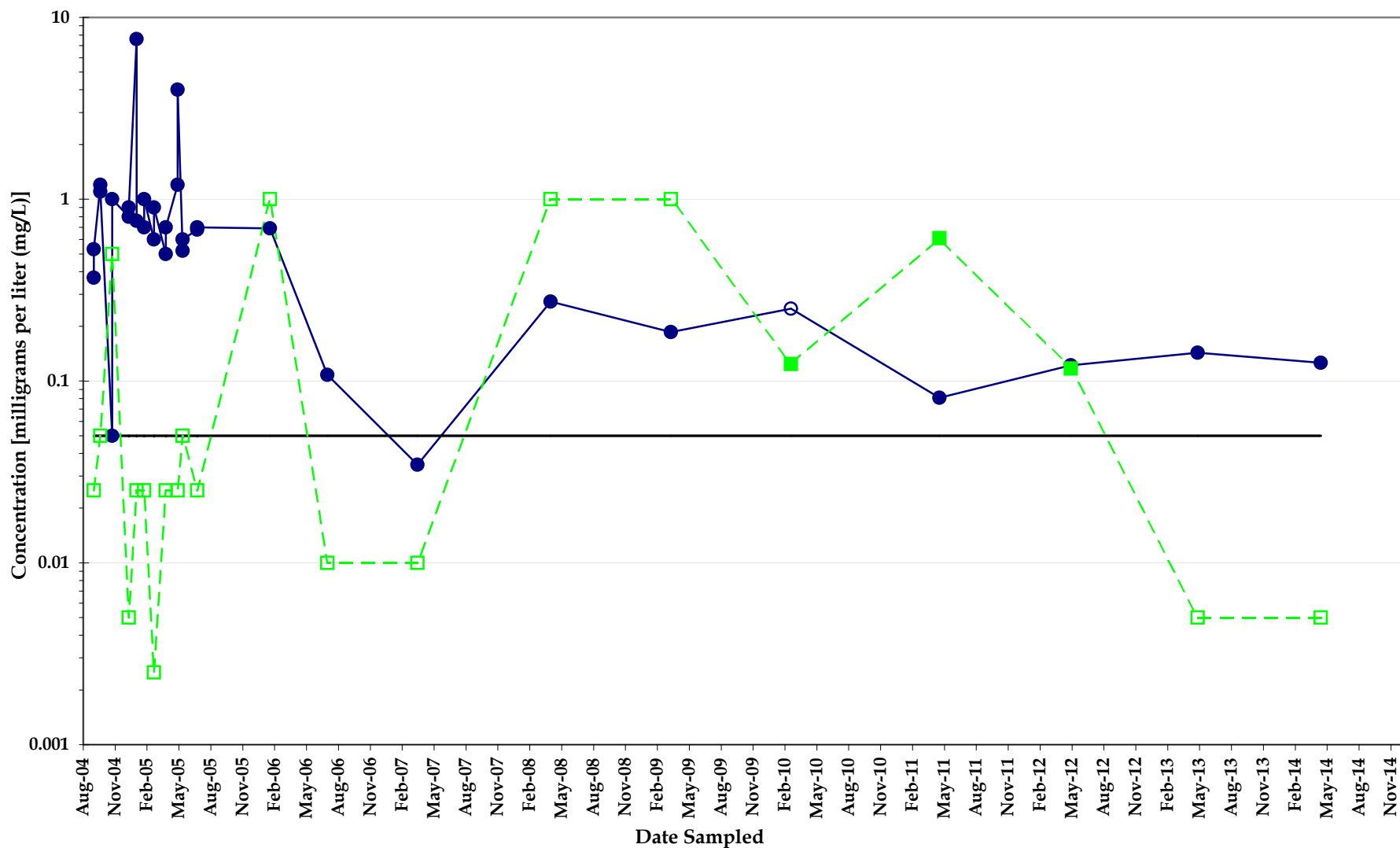


Chromium Concentrations Monitoring Well MW087A

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

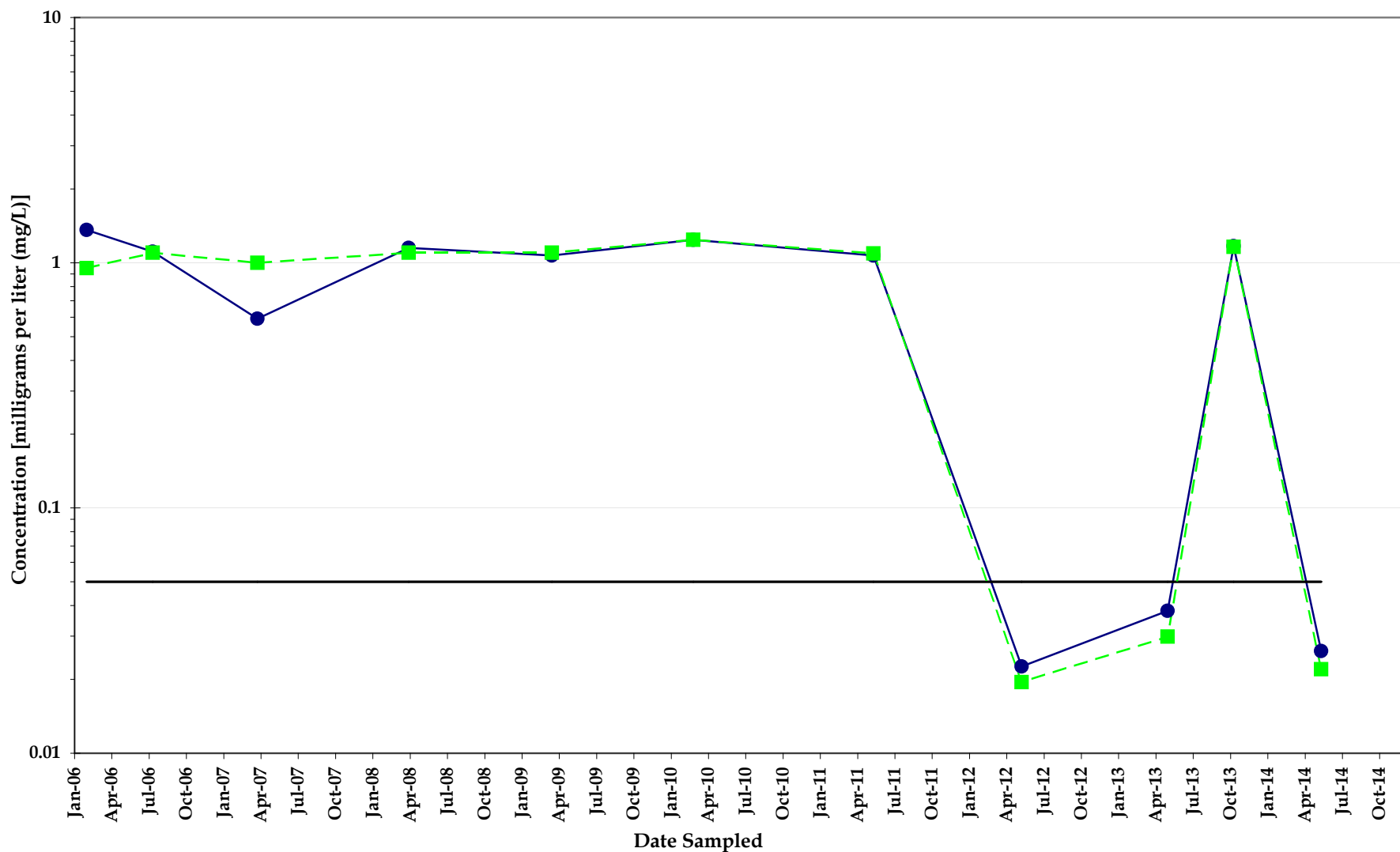


Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Chromium Concentrations Monitoring Well MW088M

North Eunice Gas Plant
Lea County, New Mexico



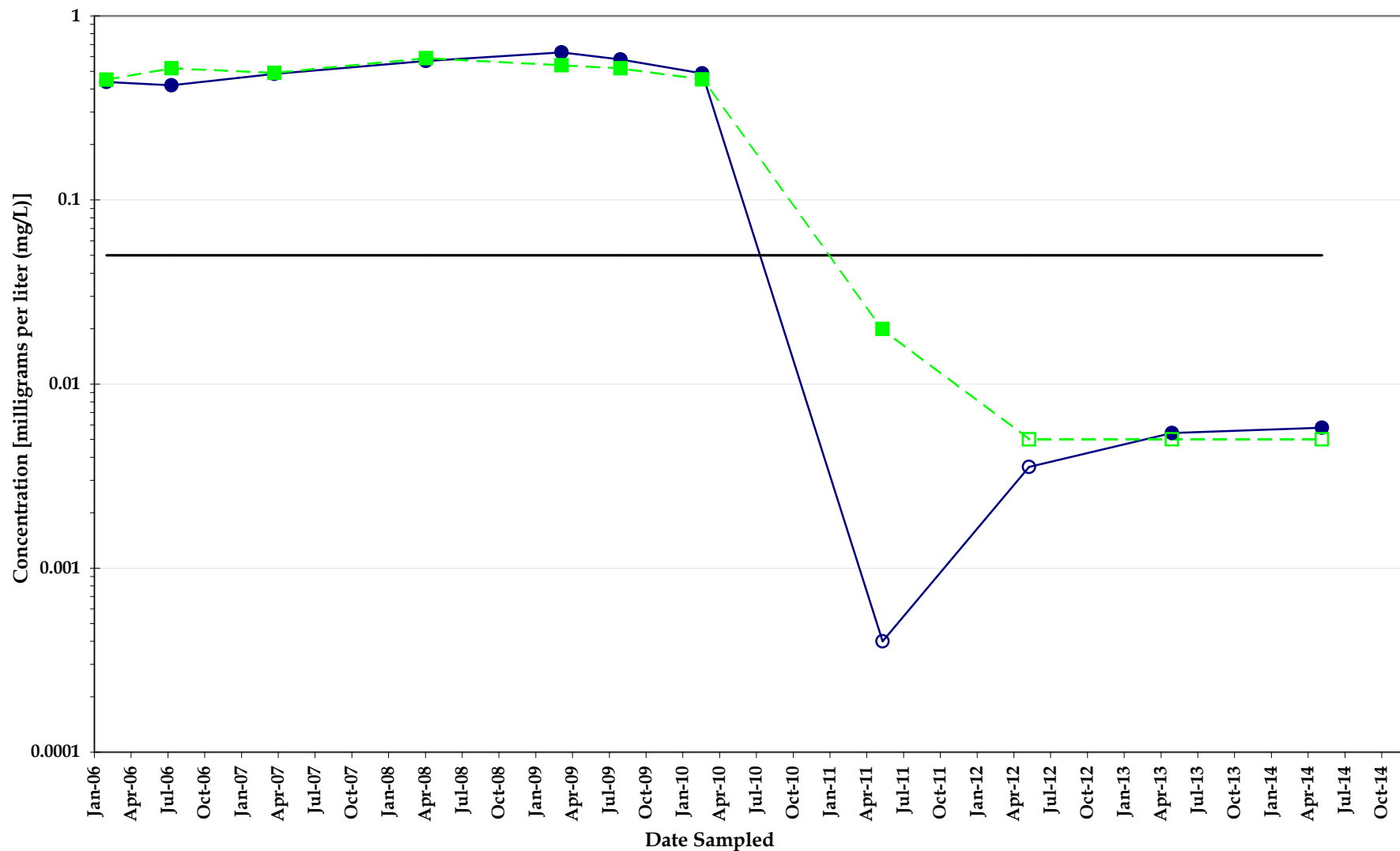


Chromium Concentrations Monitoring Well MW089SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

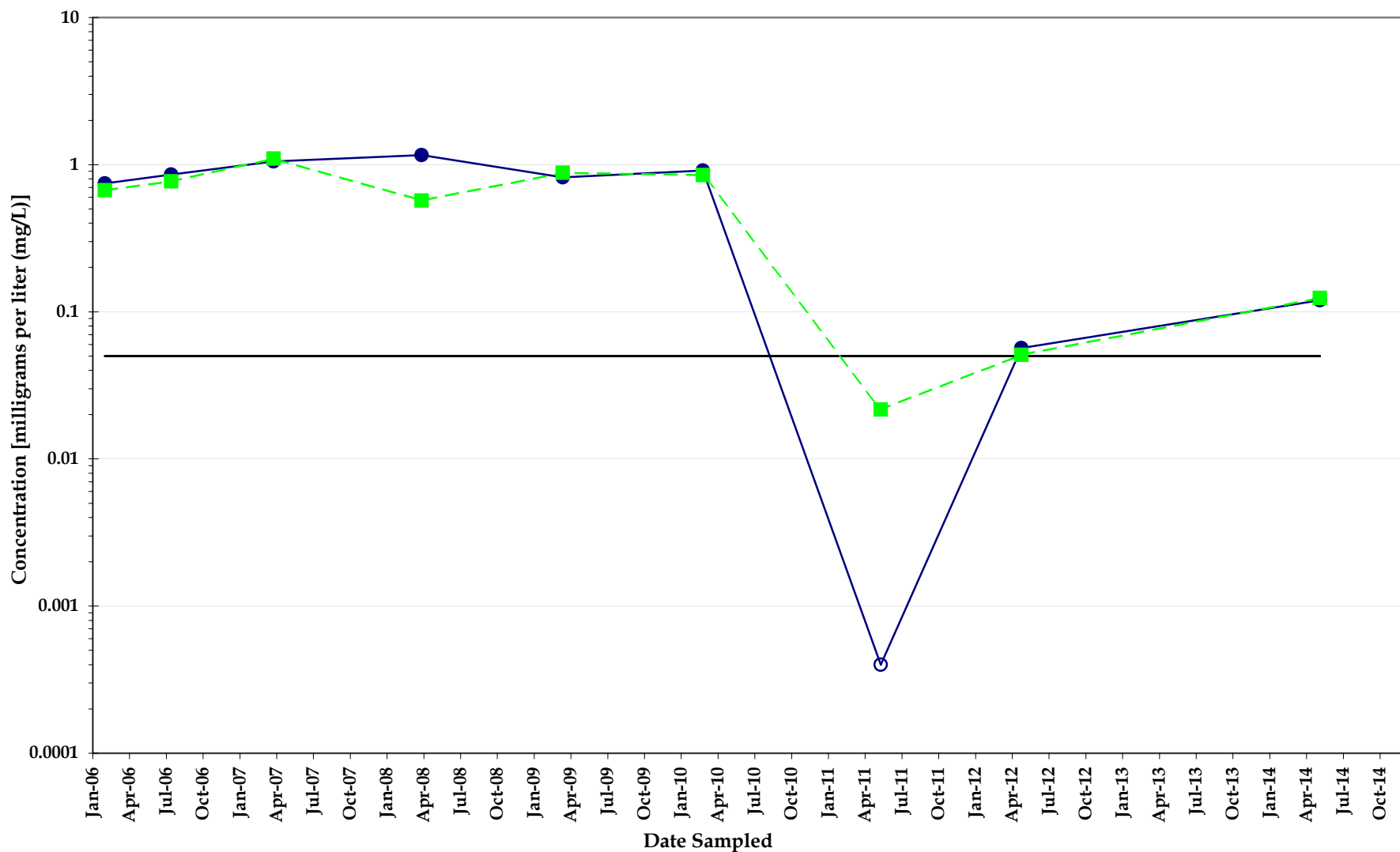


Chromium Concentrations Monitoring Well MW090SA

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

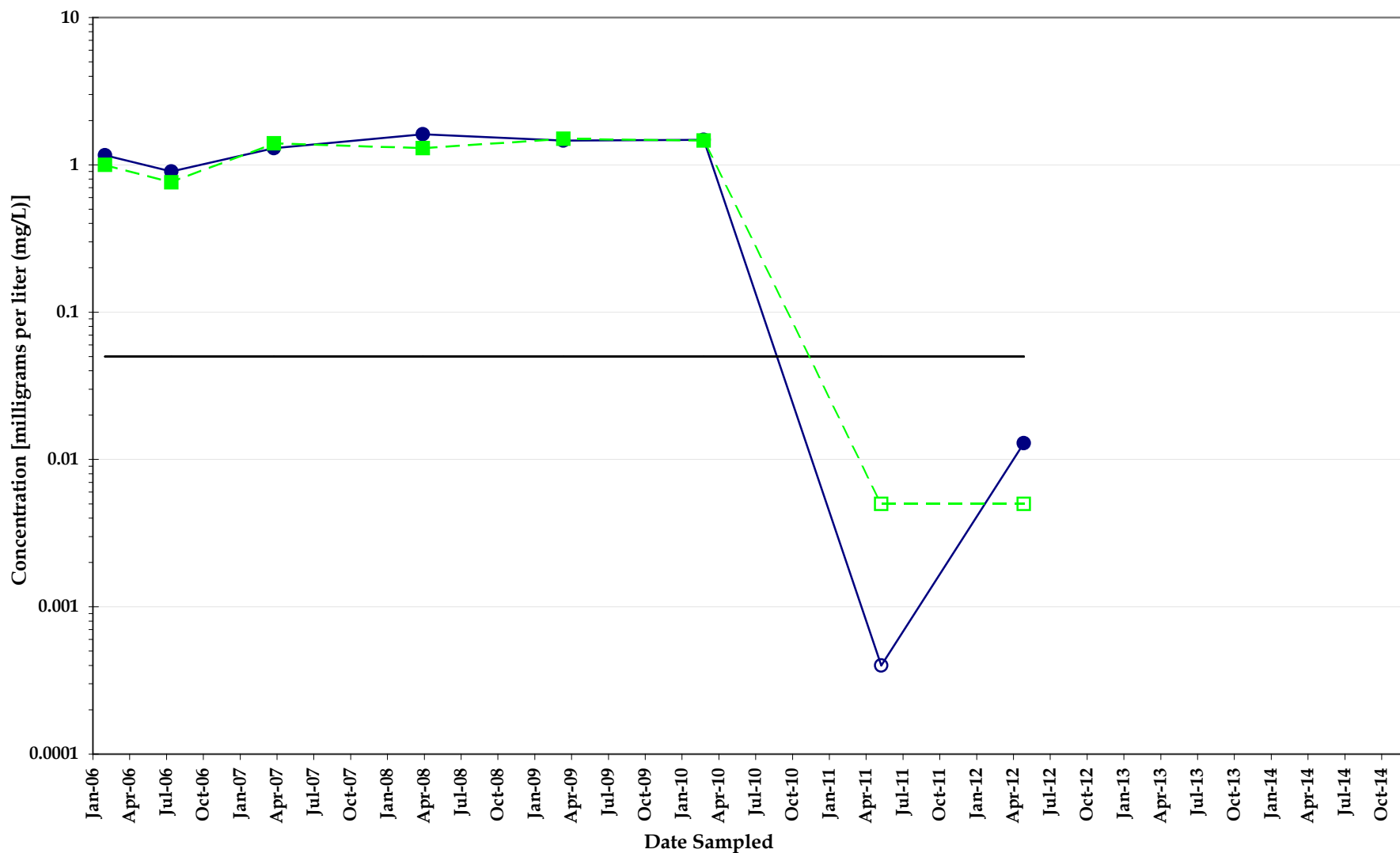


Chromium Concentrations Monitoring Well MW091SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

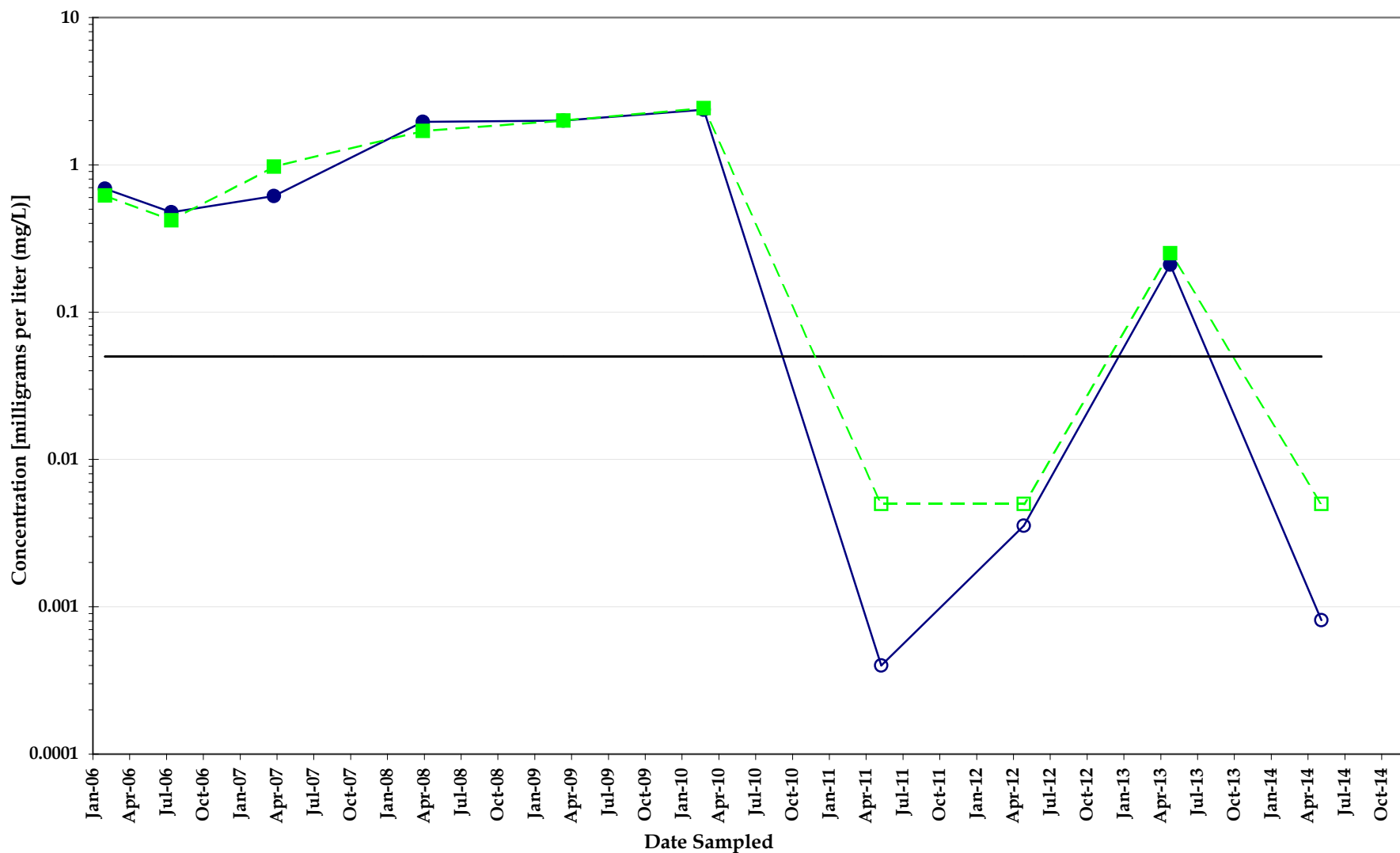


Chromium Concentrations Monitoring Well MW092SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

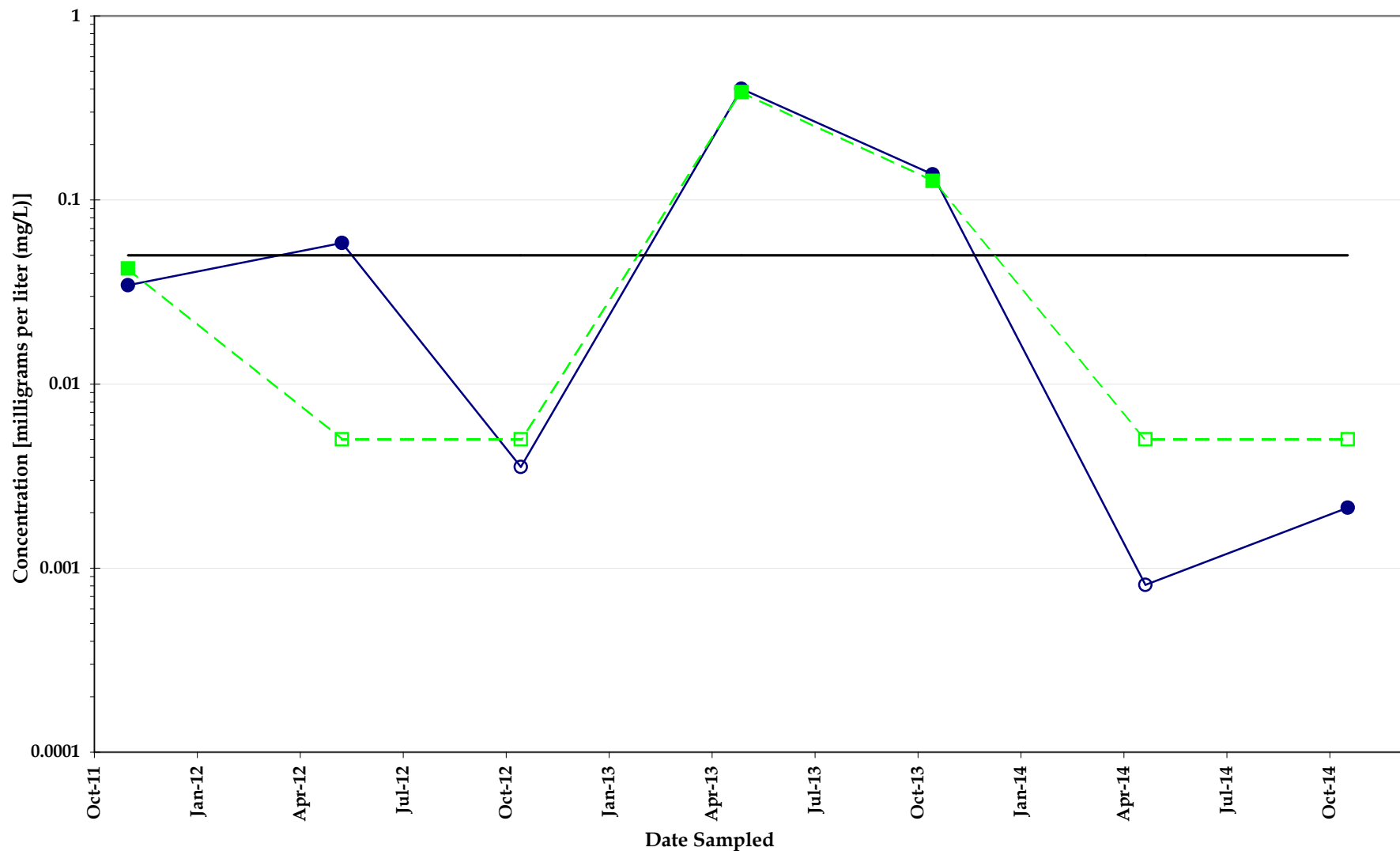


Chromium Concentrations Monitoring Well MW093SA

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

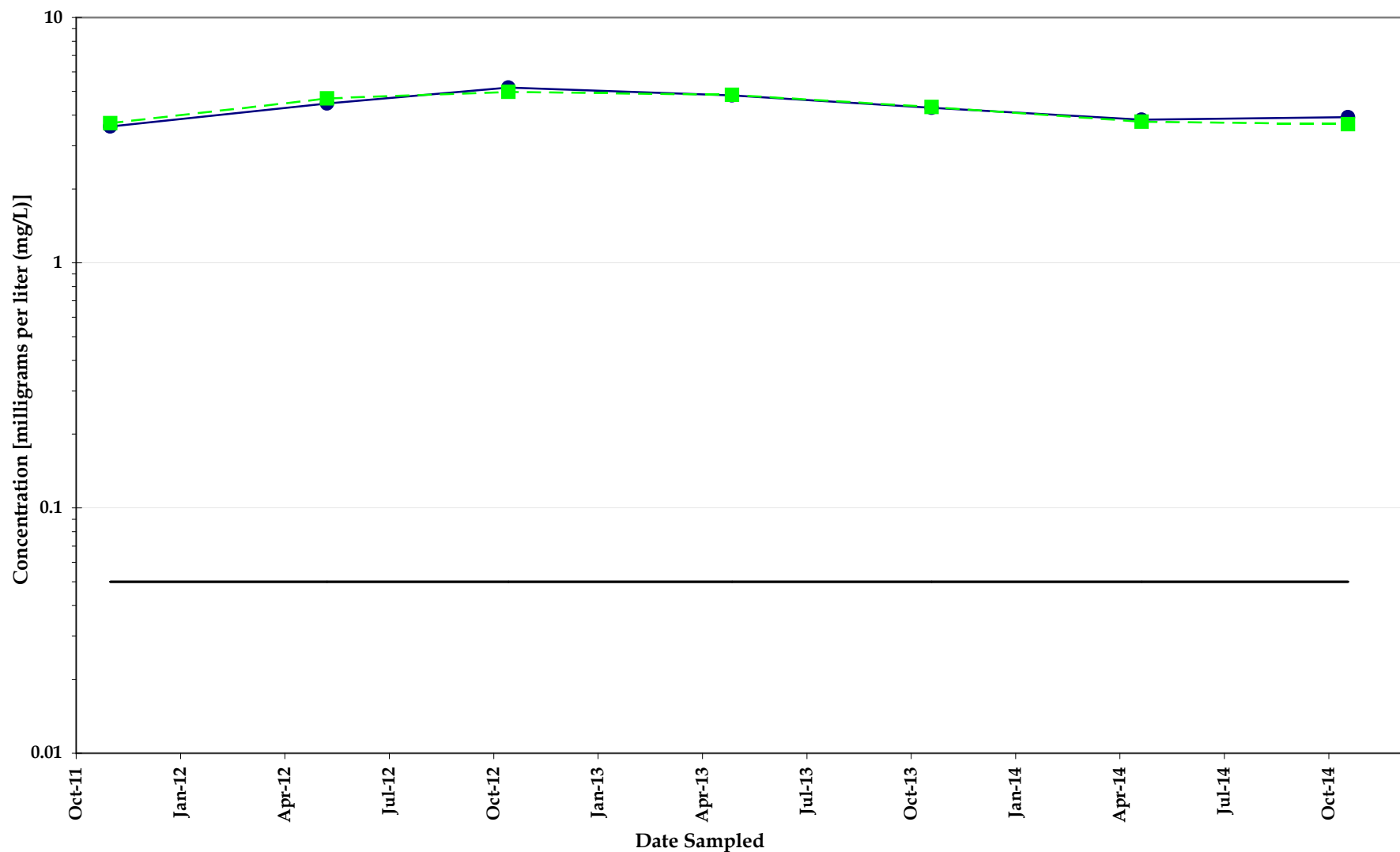


Chromium Concentrations Monitoring Well MW094

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

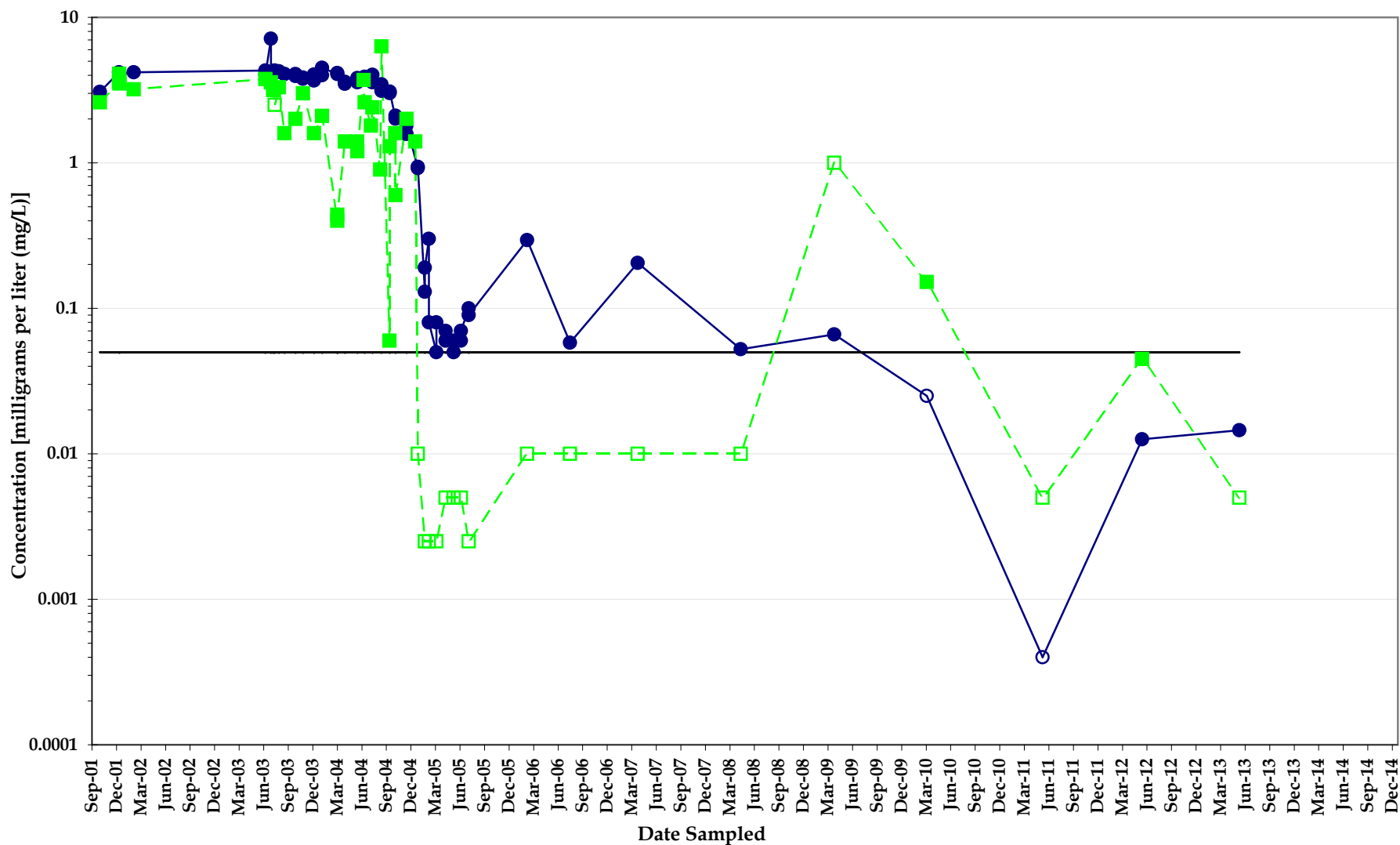


Chromium Concentrations Monitoring Well MW095

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

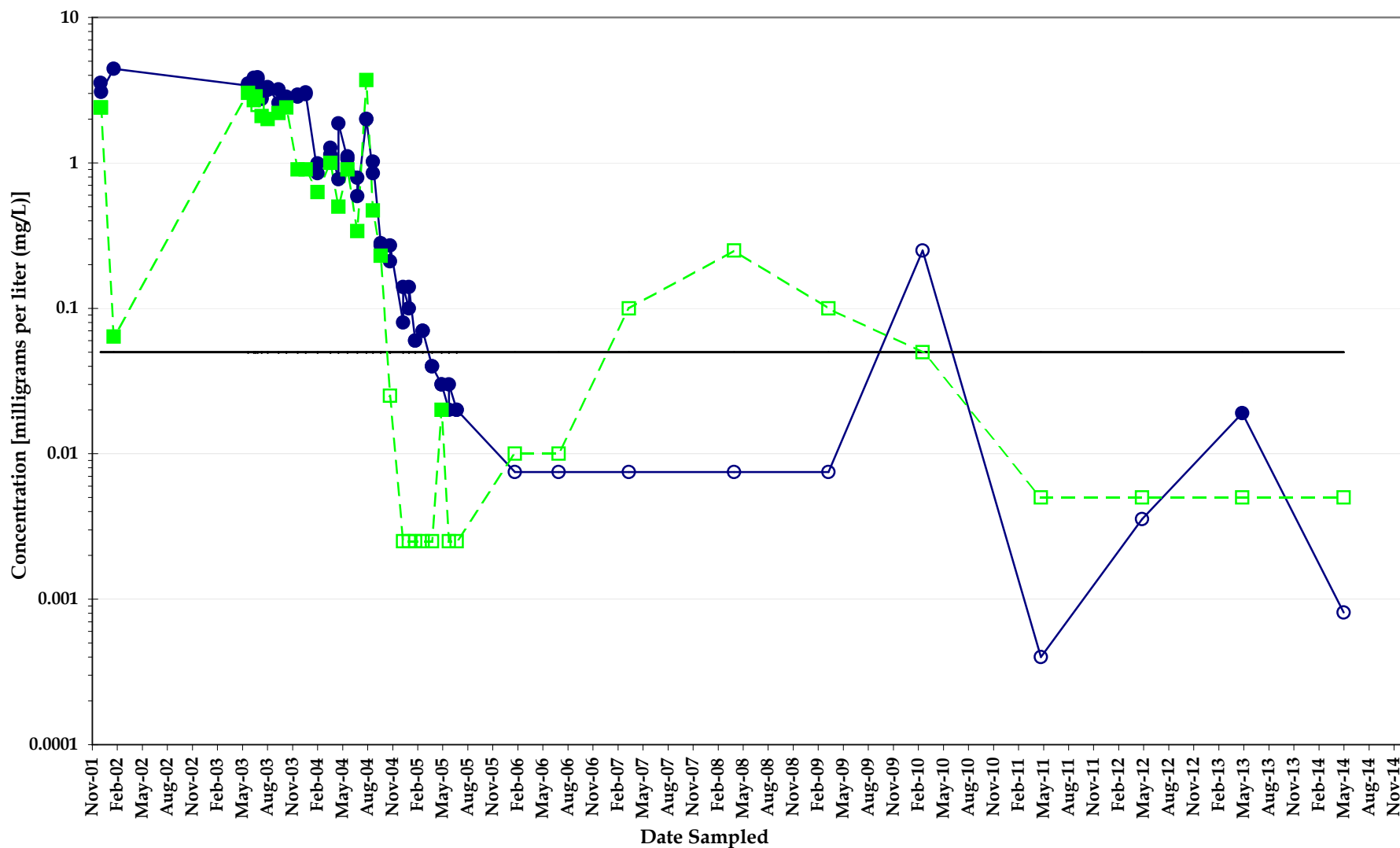


Chromium Concentrations Monitoring Well RW002

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

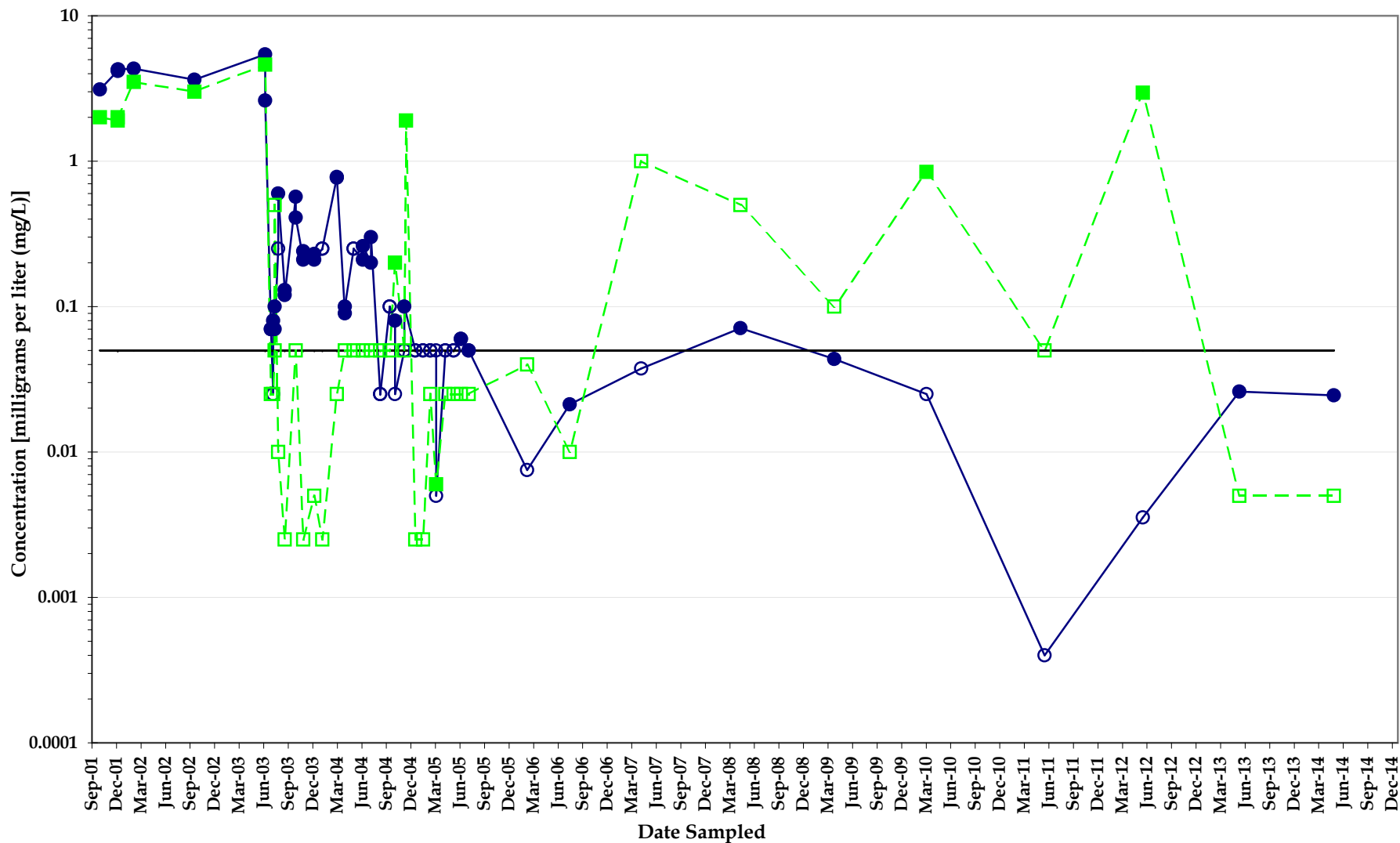


Chromium Concentrations Monitoring Well RW003

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

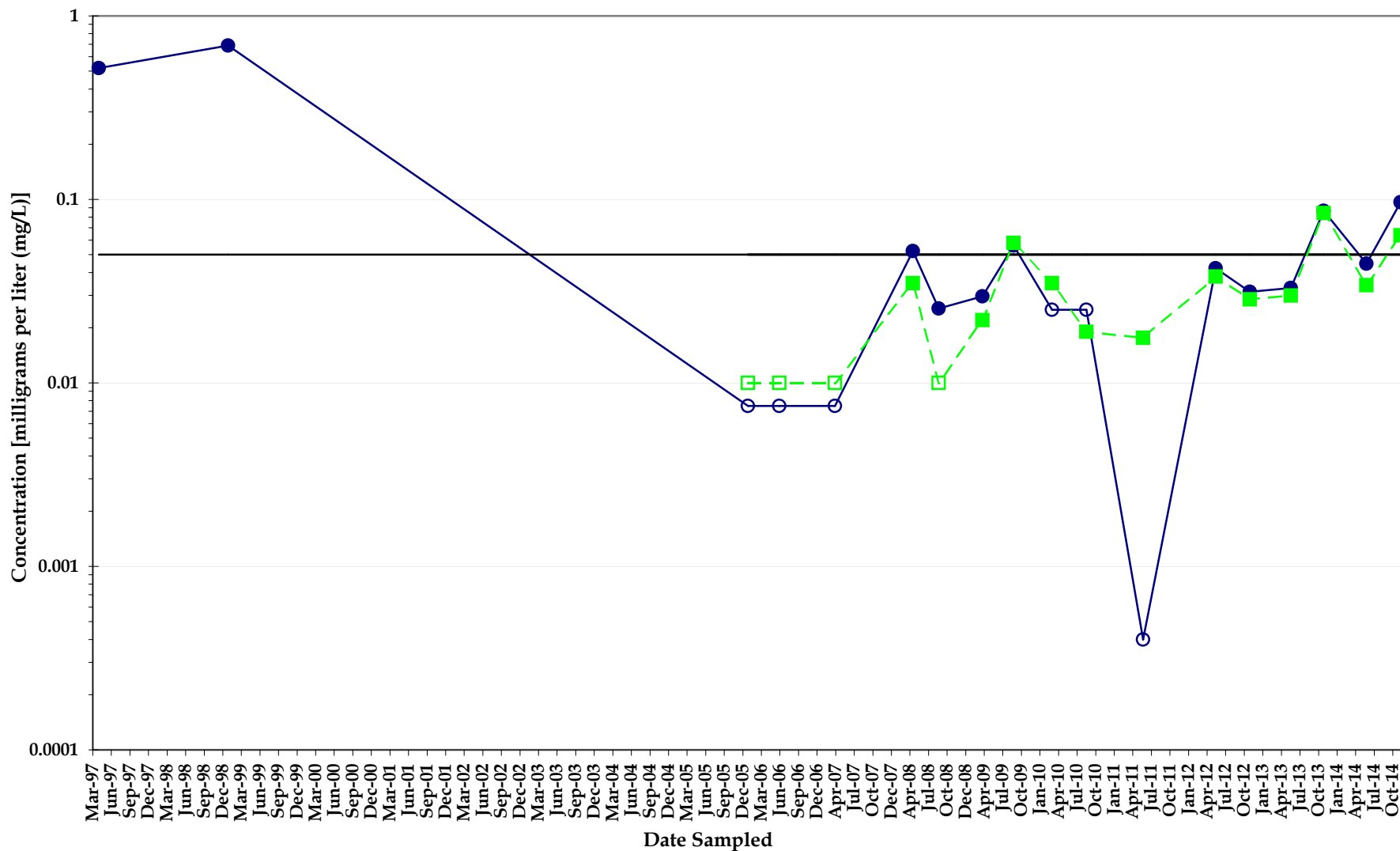


Chromium Concentrations Monitoring Well RW004A

*North Eunice Gas Plant
Lea County, New Mexico*



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.



Chromium Concentrations Monitoring Well WOODELLWW

North Eunice Gas Plant
Lea County, New Mexico



Note: Non-detect analyses plotted at the method detection limit or half the reporting limit (RL). Detections denoted by symbol and detection values greater than the RL denoted by shaded symbol.

Appendix E

New Mexico Office of the State Engineer Plugging Records



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 21

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston

State: Texas

Zip code: 77002

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: White Drilling Company, Inc.

2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins

4) Date well plugging began: 3/31/2014 Date well plugging concluded: 03/31/2014

5) GPS Well Location: Latitude: 32 deg, 27 min, 06.60 sec
Longitude: 103 deg, 09 min, 30.48 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 60.5 ft below ground level (bgl),
by the following manner: Tape Measure

7) Static water level measured at initiation of plugging: 44.64 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

[illegible]

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

I, John W. White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date _____



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 25

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston

State: Texas

Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 4/01/2014 Date well plugging concluded: 04/01/2014
- 5) GPS Well Location: Latitude: 32 deg, 26 min, 48.13 sec
Longitude: 103 deg, 9 min, 54.0 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 66.5 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 51.61 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, John W. White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 35
Well owner: Chevron Environmental Management Company Phone No.: _____
Mailing address: 400 Smith Street, Room 07086
City: Houston State: Texas Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 3/31/2014 Date well plugging concluded: 03/31/2014
- 5) GPS Well Location: Latitude: 32 deg, 27 min, 05.95 sec
Longitude: 103 deg, 09 min, 36.38 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 62.0 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 47.15 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, John W. White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 28

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston

State: Texas

Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 4/01/2014 Date well plugging concluded: 04/01/2014
- 5) GPS Well Location: Latitude: 32 deg, 26 min, 41.53 sec
Longitude: 103 deg, 10 min, 09.72 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 82.0 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 69.0 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

Signature of Well Driller

Version: September 8, 2009
Page 2 of 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 29

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston State: Texas Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 4/01/2014 Date well plugging concluded: 04/01/2014
- 5) GPS Well Location: Latitude: 32 deg, 26 min, 57.94 sec
Longitude: 103 deg, 10 min, 06.20 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 80.0 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 63.0 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

I, John W. White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

4.10.14
Date



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 18A

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston State: Texas Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 4/01/2014 Date well plugging concluded: 04/01/2014
- 5) GPS Well Location: Latitude: 32 deg, 26 min, 47.87 sec
Longitude: 103 deg, 09 min, 30.00 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 82.0 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 38.0 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, John W. White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

4-10-14

Date



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 64SA

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston State: Texas Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 4/01/2014 Date well plugging concluded: 04/01/2014
- 5) GPS Well Location: Latitude: 32 deg, 27 min, 13.29 sec
Longitude: 103 deg, 09 min, 06.32 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 75.0 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 48.5 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 77SA

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston State: Texas Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 4/01/2014 Date well plugging concluded: 04/01/2014
- 5) GPS Well Location: Latitude: 32 deg, 27 min, 13.84 sec
Longitude: 103 deg, 08 min, 56.73 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 91.0 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 49.0 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, John W. White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date _____



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 80SA

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston

State: Texas

Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 3/31/2014 Date well plugging concluded: 03/31/2014
- 5) GPS Well Location: Latitude: 32 deg, 26 min, 59.27 sec
Longitude: 103 deg, 09 min, 03.38 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 70.5 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 44.42 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, John W. White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 81SA

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston

State: Texas

Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 3/31/2014 Date well plugging concluded: 03/31/2014
- 5) GPS Well Location: Latitude: 32 deg, 26 min, 59.53 sec
Longitude: 103 deg, 09 min, 03.93 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 70.0 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 44.04 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 82SA

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston State: Texas Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 4/01/2014 Date well plugging concluded: 04/01/2014
- 5) GPS Well Location: Latitude: 32 deg, 27 min, 13.02 sec
Longitude: 103 deg, 09 min, 06.32 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 75.5 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 49 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW 92SA

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston State: Texas Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 3/31/2014 Date well plugging concluded: 03/31/2014
- 5) GPS Well Location: Latitude: 32 deg, 27 min, 01.39 sec
Longitude: 103 deg, 09 min, 32.70 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 96.0 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 42.5 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: IW 20

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston State: Texas Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 3/31/2014 Date well plugging concluded: 03/31/2014
- 5) GPS Well Location: Latitude: 32 deg, 27 min, 01.97 sec
Longitude: 103 deg, 09 min, 33.00 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 97.0 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 43.42 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

[illegible]

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

III. SIGNATURE:

I, John W. White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date _____



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: RW 002

Well owner: Chevron Environmental Management Company

Phone No.: _____

Mailing address: 400 Smith Street, Room 07086

City: Houston

State: Texas

Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William B. Atkins
- 4) Date well plugging began: 3/31/2014 Date well plugging concluded: 03/31/2014
- 5) GPS Well Location: Latitude: 32 deg, 26 min, 57.43 sec
Longitude: 103 deg, 09 min, 48.66 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 69.6 ft below ground level (bgl),
by the following manner: Tape Measure
- 7) Static water level measured at initiation of plugging: 49.0 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 01/11/2012
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

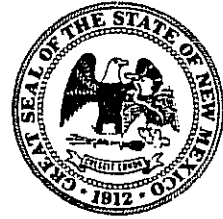
State Engineer Well Number: MW-22A
Well owner: Chevron Environmental Mgmt. Co. Phone No.: _____
Mailing address: 1400 Smith St., Room _____
City: Houston State: Texas Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: White Drilling Company, Inc.
- 2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 9/30/2014
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William Atkins
- 4) Date well plugging began: 7/12/13 Date well plugging concluded: 7/12/13
- 5) GPS Well Location: Latitude: 32 deg, 27 min, 05.6 sec
Longitude: 103 deg, 09 min, 43.8 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 102.5 ft below ground level (bgl),
by the following manner: tape measure
- 7) Static water level measured at initiation of plugging: 48.5 ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 7/16/13
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: MW-033

Well owner: CEMC

Phone No.: _____

Mailing address: 1400 Smith St

City: Houston

State: TX

Zip code: 77002

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Harrison & Cooper, Inc DBA HCI Drilling
- 2) New Mexico Well Driller License No.: WD - 1670 Expiration Date: 4/30/15
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Ken Cooper
- 4) Date well plugging began: 11/11/13 Date well plugging concluded: 11/11/13
- 5) GPS Well Location: Latitude: 32 deg, 26 min, 42.3 sec
Longitude: 103 deg, 09 min, 44.72 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 62 ft below ground level (bgl),
by the following manner: tape measure
- 7) Static water level measured at initiation of plugging: _____ ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 10/25/13
- 9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

