Hazardous Waste Section

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17

Your Name:	Katherine O'Neal
EPA ID:	N C D 9 8 6 1 6 6 3 3 8
Facility Name:	Veolia ES Technical Solutions, L.L.C.
Document Group:	Groundwater (GW)
Document Type:	Groundwater Monitoring Report (GMR)
Description:	2014 Annual Groundwater Monitoring Report
Date of Doc:	4/24/2014
Author of Doc:	

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NCD986166338

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April 24, 2014

Ms. Kathleen Lawson
Division of Waste Management
Hazardous Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

Subject: **2014 ANNUAL GROUNDWATER MONITORING REPORT**
VEOLIA ES TECHNICAL SOLUTIONS
2176 WILL SUITT ROAD
CREEDMOOR, NORTH CAROLINA
EPA ID #: NCD 986 166 338
AMEC PROJECT 6470-12-1039

Dear Ms. Lawson:

On behalf of Veolia ES Technical Solutions, L.L.C. (Veolia), AMEC Environment & Infrastructure, Inc. (AMEC) is pleased to submit the enclosed 2014 Annual Groundwater Monitoring Report for your review.

If you have any questions or need additional information, please feel free to contact me at (919) 381-9900.

Sincerely,

AMEC Environment & Infrastructure, Inc.

Jay Bennett, PG, RSM
Senior Project Manager/Hydrogeologist

Enclosure: 2014 Annual Groundwater Monitoring Report

Cc: Mr. J. Leonard Beck

AMEC Environment & Infrastructure, Inc.
4021 Stirrup Creek Drive, Suite 100
Durham, North Carolina 27703
www.amec.com
Tel: (919) 381-9900
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2014 ANNUAL GROUNDWATER COMPLIANCE MONITORING REPORT
VEOLIA ES TECHNICAL SOLUTIONS
2176 WILL SUITT ROAD
CREEDMOOR, NORTH CAROLINA

Report Prepared for:
Mr. J. Leonard Beck
Veolia ES Technical Solutions, L.L.C.
2176 Will Suitt Road
Creedmoor, North Carolina 27522

Prepared By:
AMEC Environment & Infrastructure, Inc.
4021 Stirrup Creek Drive, Suite 100
Durham, North Carolina 27703

April 24, 2014

AMEC Project 6470-12-1039

Zachary Tice
Project Manager

Jay Bennett, P.G., R.S.M. 4-25-14
Senior Project Manager

NORTH CAROLINA LICENSED SEAL 1002 GEOLOGIST JAMES A. BENNETT

AMEC Environment & Infrastructure, Inc.
4021 Stirrup Creek Drive, Suite 100
Durham, NC 27703
Licensure: NC Engineering F-1253; NC Geology C-180

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2014 ANNUAL GROUNDWATER MONITORING REPORT

A. Site Identification

Date of Report: April 24, 2014
Site Name: Veolia ES Technical Solutions
USEPA ID No.: NCD 986166338
Site Location: 2176 Will Suitt Road
Nearest City/Town: Creedmoor, North Carolina County: Granville

Property Owner: Veolia Technical Solutions, L.L.C.
Address: Attn: Mr. J. Leonard Beck; 2176 Will Suitt Road; Creedmoor, North Carolina 27522
Phone: (919) 528-3996

Consultant/Contractor: AMEC Environment & Infrastructure, Inc.
Address: 4021 Stirrup Creek Drive, Suite 100, Durham, North Carolina 27703
Phone: (919) 381-9900
Attention: Mr. Jay Bennett, P.G., R.S.M.

Site Latitude: 36.131996° North Site Longitude: -78.729235° West
Estimated Quantity of Release: N/A
Cause of Release: N/A
Source of Release: N/A

I, Jay Bennett, a Professional Geologist for AMEC Environment & Infrastructure, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

Jay Bennett, P.G., R.S.M.
Senior Project Manager

4-25-14

NORTH CAROLINA LICENSED SEAL 1002 GEOLOGIST JAMES A. BENNETT

(Please Affix Seal and Signature)

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 SCOPE OF WORK 1

2.1 Field Activities 1
2.2 Field Measurements and Parameters 2

3.0 RESULTS 2

3.1 Water Levels 2
3.2 Laboratory Analytical Data 2
3.3 Potential Receptors 3

4.0 EVALUATION OF RESULTS 3

4.1 Groundwater Flow Direction 3
4.2 Groundwater Analytical Results and Trend Analysis 3

5.0 CONCLUSIONS 3

TABLES

Table 1 Summary of Monitoring Well Construction and Water Table Elevations
Table 2 Summary of Survey Data
Table 3 Summary of Water Quality Parameters
Table 4 Summary of Laboratory Analytical Results

FIGURES

Figure 1 Site Location Map
Figure 2 Site Plan and Monitoring Well Locations
Figure 3 Piezometric Groundwater Contours

APPENDICES

Appendix A Field Data Sheets
Appendix B Laboratory Analytical Report
Appendix C Historic Analytical Summary Tables
Appendix D Concentration Trend Plots

1.0 INTRODUCTION

This 2014 Annual Groundwater Compliance Monitoring Report represents groundwater data collected since the February 2013 sampling event. The sampling event and report preparation was conducted by AMEC Environment & Infrastructure, Inc. (AMEC) at Veolia ES Technical Solutions (Veolia; the "site"), located at 2176 Will Suitt Road in Creedmoor, North Carolina (see Figures 1 and 2). The site consists of one building (approximately 16,500 square feet) that contains an office, warehouse space and a loading dock with covered waste containment areas. Veolia receives pre-packaged wastes from chemical and industrial facilities, then segregates the wastes based on the chemical characteristics and transports the wastes to an appropriate disposal facility.

Veolia operates as a treatment, storage and disposal (TSD) facility of hazardous waste permitted under the Resource Conservation and Recovery Act (RCRA) of 1976, under United States Environmental Protection Agency (USEPA) ID number NCD 986166338.

As part of Veolia's RCRA permit, annual testing is performed on the three compliance groundwater monitoring wells located on site. Annual groundwater monitoring events have been conducted at the site since 1996. AMEC conducted the last sampling event in February 2013, and the 2013 Annual Groundwater Monitoring Report was prepared and submitted to Veolia for issuance to the North Carolina Department of Natural Resources (NCDENR), Department of Waste Management (DWM), RCRA compliance group. The 2013 groundwater analytical results did not indicate constituents of concern (COCs), other than barium, at concentrations exceeding the applicable regulatory standards.

Veolia also operates under coverage of National Pollutant Discharge Elimination System (NPDES) permit NCS000175 issued by the NCDENR, Division of Water Quality (DWQ). This permit is valid for a period of five years and is continuously renewed by Veolia. This permit sets benchmark guidelines for criteria associated with stormwater discharge, which is also monitored in groundwater, among other constituents. Bi-annual stormwater sampling of the three discharge monitoring locations is conducted to monitor and ensure compliance with this NPDES permit. Historical discharge monitoring locations have exhibited various lower pH values.

2.0 SCOPE OF WORK

2.1 Field Activities

On February 26, 2014, AMEC conducted the annual groundwater compliance monitoring. Depth-to-water measurements were initially measured at each monitoring well location. AMEC collected groundwater samples from the monitoring wells using a peristaltic pump and new, dedicated, disposable tubing. Prior to sample collection, AMEC purged groundwater from each monitoring well until the field measurements of water quality parameters, pH, specific conductivity, dissolved oxygen, and oxygen reducing potential had stabilized to acceptable ranges in accordance with the guidelines presented in the EPA's *Ground Water Issue Concerning Low-Flow (minimal drawdown) Ground-Water Sampling Procedures*, dated April 1996 (US EPA/540/S-95/504).

AMEC collected the groundwater samples directly from the dedicated tubing for each monitoring well into pre-labeled, laboratory-supplied sample containers. The samples were shipped in approved coolers and handled under chain-of-custody to Environmental Conservation Laboratories, Inc. (ENCO; NC Certification Nos. 591 and 424) located in Cary, North Carolina. ENCO analyzed the groundwater samples for the following constituents:

- Nitrate/Nitrite
- Biological Oxygen Demand (BOD)
- Chemical Oxygen Demand (COD)
- Cyanide
- Oil & Grease with Hexane extraction
- Total Phenols
- Total Phosphorous
- Total Kjeldahl Nitrogen (TKN)
- Total Suspended Solids (TSS)
- Metals - As, Ba, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Sn, V, and Zn
- Volatile organic compounds (VOCs)
- Organochlorine pesticides / PCBs
- Base-neutral/acid extractable semi-volatile organic compounds (SVOCs)

2.2 Field Measurements and Parameters

AMEC collected and recorded all field data consistent with the activities described above. Data recorded includes depth-to-groundwater, water quality measurements, and parameters during low-flow purging and stabilization. Table 1 includes depth-to-groundwater measurements and Appendix A includes the field data sheets with specific monitoring well purging and stabilization details.

3.0 RESULTS

3.1 Water Levels

The depth-to-groundwater measurements were compared to known surveyed monitoring well elevations. Table 1 includes the 2014 water table elevation data and monitoring well construction details. Table 2 includes the original survey data for the three monitoring wells. Tables 1 and 2 were utilized in the depiction of the interpolated groundwater piezometric contours included as Figure 3.

3.2 Laboratory Analytical Data

A summary of the 2014 laboratory analytical results is included in Table 4 and a copy of the laboratory analytical report is included as Appendix B. Historic analytical summary tables for each monitoring well are included as Appendix C and concentration trend plots for each monitoring well (constituent concentrations versus time graphs per monitoring well) are included as Appendix D.

Groundwater analytical data was compared to the North Carolina Groundwater Quality Standards promulgated in Title 15A, Subchapter 2L, Section .0202 of the North Carolina Administrative Code (2L Standard). Barium was detected in two of the three groundwater sampling locations, specifically MW-1 and MW-3, at concentrations of 981 micrograms per liter

(µg/L) and 873 µg/L, respectively, exceeding the 2L Standard of 700 µg/L. Several other constituents were detected above laboratory reporting limits at each monitoring well location; however, they did not exceed their respective 2L Standard.

3.3 Potential Receptors

AMEC is not aware of a receptor survey conducted for the site. Based upon review of the Stem 7.5-minute topographic map, the western and southern portions of the site contain unnamed, intermittent streams that eventually flow into Falls Lake. These surfical water bodies may be receptors for shallow groundwater discharging from the site. Mr. J. Leonard Beck, Inventory Control Manager for Veolia, stated that potable water is supplied to the Veolia facility from the Town of Butner and that Veolia does not maintain a potable water-supply well.

4.0 EVALUATION OF RESULTS

4.1 Groundwater Flow Direction

AMEC calculated water table elevations using the established top of casing survey elevation data and depth-to-water measurements collected. A summary of water table elevations determined from measurements collected on February 26, 2014, are depicted on Table 1 and Figure 3. Figure 3 depicts the interpolated groundwater piezometric contours. Based on these interpolated piezometric contours, the groundwater flow is in a southern direction. This predominantly southern direction remains consistent with the 2013 and historic sampling events.

4.2 Groundwater Analytical Results and Trend Analysis

Laboratory analytical results provided by ENCO did not detect COCs with respect to the NPDES permit benchmark concentrations that exceed their respective 2L Standards in the groundwater samples collected during this event. An exceedance of the 2L Standard for barium was detected at monitoring locations MW-1 and MW-3. The exceedance concentration of barium detected at MW-1 is within the historic detected range for this sampling location, as is the concentration of barium detected at MW-2. The exceedance concentration of barium detected at MW-3 is readily consistent with historic detections for this sampling location.

These barium detections are likely due to naturally-occurring geochemical process, rather than a specific release or contaminant source. Furthermore, a constituent plume figure has not been generated.

5.0 CONCLUSIONS

Based on the results of our recent sampling activities, AMEC offers the following conclusions:

- Analytical results did not identify COCs indicated in the RCRA Permit at concentrations greater than their respective 2L Standards in groundwater at the site.

- The analytical results indicated barium at a concentration in exceedance of its 2L Standard at locations MW-1 and MW-3; however, the standard for barium was recently lowered in 2010, from 2,000 µg/L to 700 µg/L.

- Historic monitoring events have detected barium at concentration ranges similar to those detected during the 2014 event at locations MW-1 and MW-2. Historic monitoring events have detected barium at readily consistent concentrations as those detected in 2014 at location MW-3.

- The presence of barium at these concentrations likely reflects naturally-derived conditions in groundwater at the site and not a contamination source. Furthermore, Veolia has reported no surface spills since the 2013 sampling event in operational areas of the facility that would contribute to increased barium concentrations in groundwater.

- In September 2011, an AMEC Surface Water Sampling Report indicated that low pH values from stormwater discharge just north of monitoring well MW-1 and MW-3 were detected. These low pH values were attributed to roof drain water runoff. This low pH surface water runoff and infiltration into the soil may be causing a geochemical change in soil, thus leaching naturally occurring barium from soil to groundwater.

- Veolia has recently installed a new membrane on the warehouse building roof in order to address the low pH surface water runoff.

- Based on water table elevations calculated for the three monitoring wells, groundwater is interpreted as flowing towards the south.

Annual groundwater monitoring events, including the monitoring of barium, will continue to be conducted as specified in the RCRA permit for the Veolia facility. The next groundwater sampling event is scheduled for February 2015. Veolia will continue monitoring surface water runoff pH into the area through bi-annual stormwater sampling, as specified in the NPDES permit during 2014.

TABLES

AMEC Environment & Infrastructure, Inc.
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Durham, North Carolina 27703
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Table 1
Summary of Monitoring Well Construction and Water Table Elevation Details
2014 Annual Groundwater Sampling Event
Veolia ES Technical Solutions
Creedmoor, North Carolina
AMEC Project 6470-12-1039

Well ID	Well Diameter (inches)	TOC Elevation (ft msl)	Depth to Water Table (ft below TOC)	Water-Table Elevation (ft msl)	Screen Interval Elevations (ft msl)	Total Well Depth (ft)
MW-1	2	347.13	2.06	345.07	316.84 - 326.84	30.29
MW-2	2	367.18	2.86	364.32	341.32 - 351.32	25.86
MW-3	2	360.34	16.48	343.86	317.94 - 327.94	42.40

TOC = top of casing
msl = mean sea level
TOC elevations measured by Taylor Wiseman Taylor on February 12, 2007
Water Level Data collected by AMEC on 2-26-2014

Prepared by: KC Date: 4/4/2014

Checked by: ZT Date: 4/8/2014

Table 2
Summary of Survey Data
2014 Annual Groundwater Sampling Event
Veolia ES Technical Solutions
Creedmoor, North Carolina
AMEC Project 6470-12-1039

Well ID	Northing (feet)	Easting (feet)	Latitude (North)	Longitude (West)	TOC Elevation (ft msl)	Surface Elevation (ft msl)
MW-1	866,674.53	2,079,985.83	36° 07' 51.39067"	78° 43' 44.95607"	347.13	345.27
MW-2	867,263.14	2,080,074.86	36° 07' 57.20899"	78° 43' 43.85126"	367.18	365.21
MW-3	866,697.95	2,080,274.28	36° 07' 51.61448"	78° 43' 41.43904"	360.34	357.84

TOC = top of casing
msl = mean sea level
Survey data obtained by Taylor Wiseman Taylor on February 12, 2007

Prepared by: KC Date: 4/4/2014

Checked by: ZT Date: 4/8/2014

Table 3
Summary of Final Stabilized Water Quality Parameters
2014 Annual Groundwater Sampling Event
Veolia ES Technical Solutions
Creedmoor, North Carolina
AMEC Project 6470-12-1039

Well ID	pH (SU)	Specific Conductance (mS/cm)	Temperature (^{o}C)	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity VISUAL
MW-1	6.91	0.917	11.35	2.68	187.70	Clear
MW-2	5.35	0.080	12.34	1.18	234.20	Clear
MW-3	6.81	0.551	13.60	2.20	136.20	Clear

Prepared by: KC Date: 4/4/2014

Checked by: ZT Date: 4/8/2014

Table 4
Summary of Laboratory Analytical Results
2014 Annual Groundwater Sampling Event
Veolia ES Technical Solutions
Creedmoor, North Carolina
AMEC Project 6470-12-1039

Sample ID →	**MW-1**	**MW-2**	**MW-3**	**2L Standard**
Sample Date → / **Constituent of Concern ↓**	**2/26/2014**	**2/26/2014**	**2/26/2014**	
Volatile Organics by EPA Method 624				
	No compounds detected above reporting limits			*NA*
Acid Extractables and Base Neutrals by EPA Method 625				
	No compounds detected above reporting limits			*NA*
Pesticides and PCB's by EPA Method 608				
	No compounds detected above reporting limits			*NA*
Metals by EPA Method 6010C				
Arsenic	<10.0	<10.0	<10.0	*10*
Barium	**981**	84.4	**873**	*700*
Cadmium	<1.00	<1.00	<1.00	*2*
Lead	<10.0	<10.0	2.5 J	*15*
Silver	<10.0	<10.0	<10.0	*20*
Thallium	<1.00	<1.00	<1.00	*0.2*
Tin	<10.0	<10.0	<10.0	*2,000*
Vanadium	<1.00	0.60 J	<10.0	*0.3*
Zinc	<10.0	4.1 J	8.2 J	*1,000*
Mercury	<0.20	<0.20	<0.20	*1.05*
Standard Method 5220D				
COD	28,000	<10,000	<10,000	*NE*
EPA Method 353.2				
Nitrate as N	<100	1,800	<100	*10,000*
EPA Method 353.2				
Nitrite as N	<100	<100	<100	*1,000*
Standard Method 2540D				
Total Suspended Solids	<1000	2,000	11,000	*NE*
EPA Method 353.2				
Nitrate/Nitrite as N	<100	1,800	<100	*NE*
EPA Method 420.1				
Phenolics	<50	<50	<50	*NE*
EPA Method 365.4				
Phosphorus	<100	<100	240	*NE*
EPA Method 1664B				
Oil & Grease	6210	5080	3270	*NE*
EPA Method 351.2				
Total Kjeldahl Nitrogen	<480	<480	<480	*NE*

Results reported in micrograms per liter (µg/L).
NA = Not Applicable.
NE = Not Established.
Bold values indicate analytes detected above the North Carolina groundwater quality standard (15A NCAC 2L.0202).
J = Detected below the Reporting Limit; therefore, result is an estimated concentration.

Prepared by: KC Date: 4/4/2014
Checked by: ZT Date: 4/8/2014

FIGURES

AMEC Environment & Infrastructure, Inc.
4021 Stirrup Creek Drive, Suite 100
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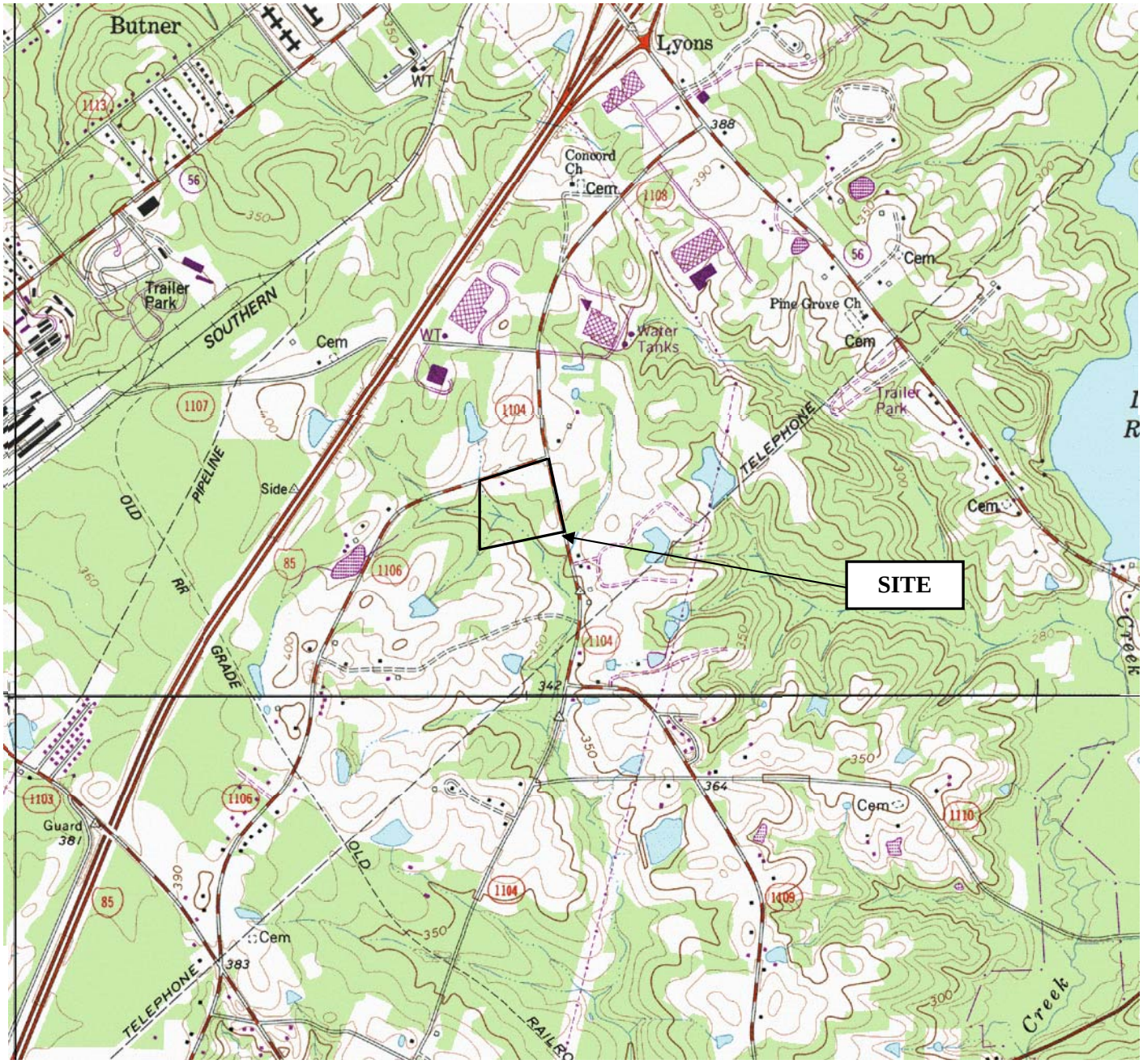
Fax: (919) 381-9901

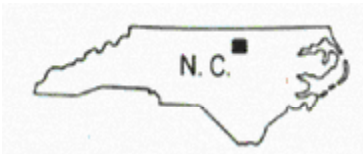


NORTH

STEM, N. C.
NW/4 CREEDMOOR 15' QUADRANGLE
36078-B6-TF-024

1974
PHOTOREVISED 1987
DMA 5256 II NW-SERIES V842

CREEDMOOR, N. C.
SW/4 CREEDMOOR 15' QUADRANGLE
36078-A6-TF-024
PHOTOINSPECTED 1990
1974
PHOTOREVISED 1987
DMA 5256 II SW-SERIES V842



CONTOUR INTERVAL 10 FEET

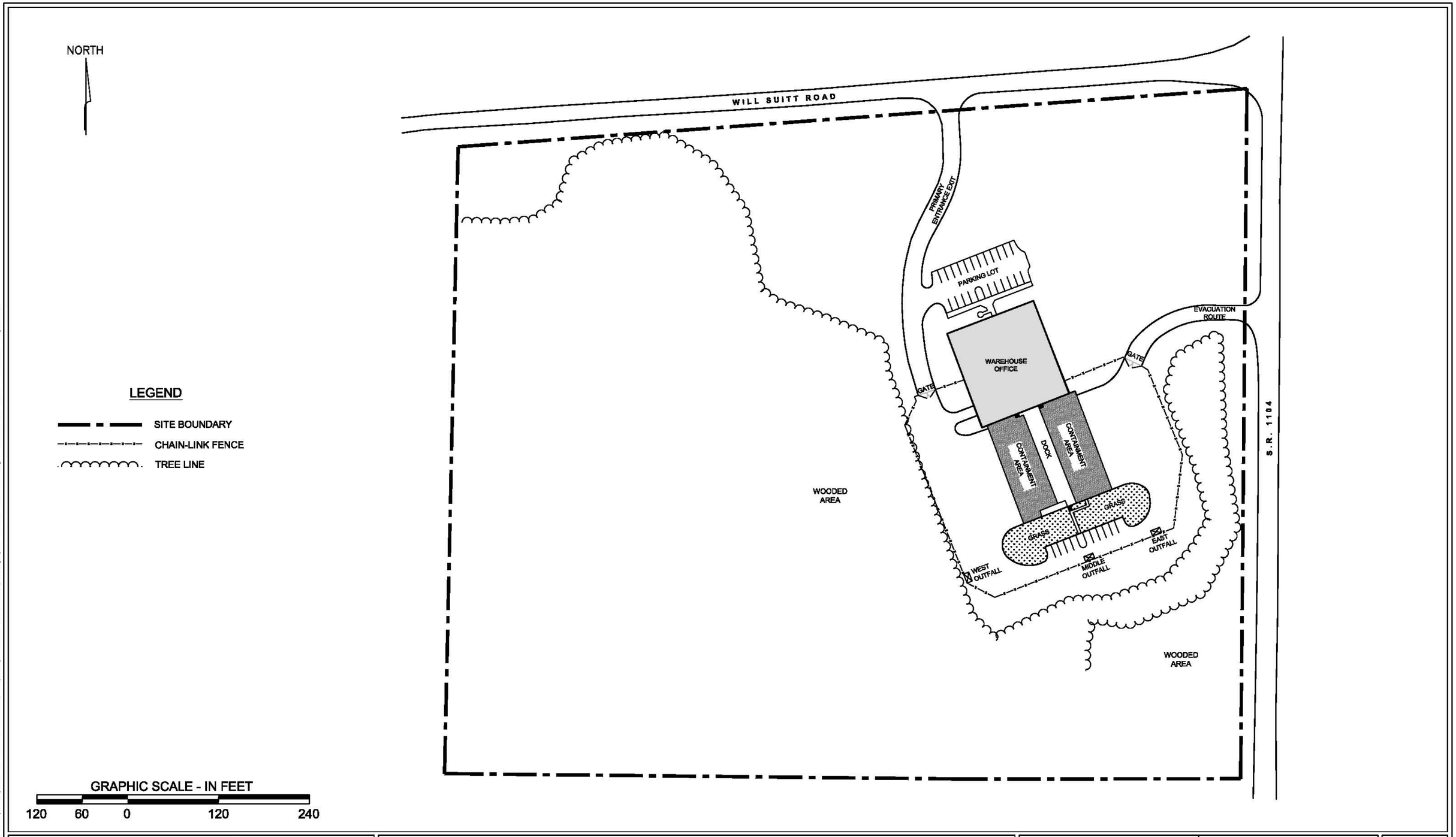
NATIONAL GEODETIC VERTICAL DATUM OF 1929

1000 0 1000 2000

AMEC ENVIRONMENT & INFRASTRUCTURE, INC.
4021 STIRRUP CREEK DRIVE, SUITE 100
DURHAM, NORTH CAROLINA 27703

TOPOGRAPHIC SITE MAP
VEOLIA ES TECHNICAL SOLUTIONS
CREEDMOOR, NORTH CAROLINA

DRAWN: R.R.	DATE: FEBRUARY 2014	DRAWING
ENG CHECK:	SCALE: 1 : 24000	1
APPROVAL:	JOB: 6470-12-1039	



P:\Comm-Ind\Projects\Clients T to Z\Veolia\6470-12-1039 Veolia 2012\8_Reports\Annual GW Event 2012\Drawings\Site Location Plan 2014.dwg Tue, 25 Mar 2014 - 11:15am roys.rahie

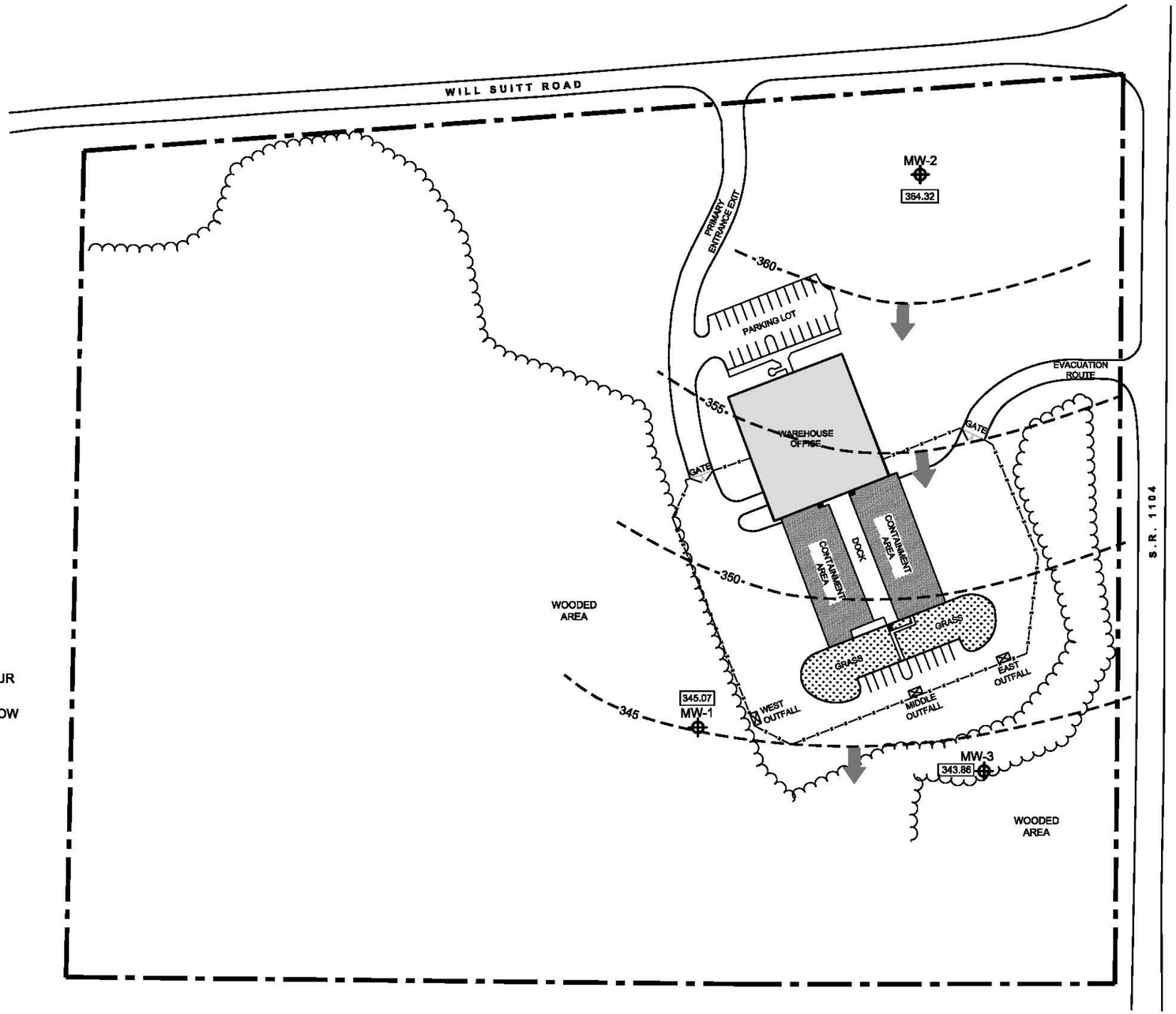
amec

AMEC Environment & Infrastructure, Inc.
4021 STIRRUP CREEK DRIVE, SUITE 100
DURHAM, NORTH CAROLINA

SITE LOCATION MAP
VEOLIA ES TECHNICAL SOLUTIONS
CREEDMOOR, NORTH CAROLINA

DRAWN: R.R.	DATE: FEBRUARY 2014	DRAWING
ENG CHECK:	SCALE: AS SHOWN	2
APPROVAL:	JOB No.: 6470-12-1039	

REFERENCE: SURVEY DATA PROVIDED BY TAYLOR WISEMAN TAYLOR; SITE DRAWING PROVIDED BY VEOLIA; AMEC FIELD NOTES.



NORTH

LEGEND

- SITE BOUNDARY
- CHAIN-LINK FENCE
- TREE LINE
- MW-1 — LOCATION AND ID OF TYPE II MONITORING WELL
- 346.32 — WATER-TABLE ELEVATION CALCULATED FROM MEASUREMENTS COLLECTED FEBRUARY 26, 2014
- 345 — INTERPOLATED WATER-TABLE ELEVATION CONTOUR
- INTERPOLATED DIRECTION OF GROUNDWATER FLOW
- CONTOUR INTERVAL = 5 FEET

GRAPHIC SCALE - IN FEET

120 60 0 120 240

AMEC Environment & Infrastructure, Inc.
4021 STIRRUP CREEK DRIVE, SUITE 100
DURHAM, NORTH CAROLINA

2014 ANNUAL GROUNDWATER MONITORING REPORT
PIEZOMETRIC GROUNDWATER CONTOURS
VEOLIA ES TECHNICAL SOLUTIONS
CREEDMOOR, NORTH CAROLINA

DRAWN: R.R.	DATE: FEBRUARY, 2014	DRAWING	
ENG CHECK:	SCALE: AS SHOWN	3	
APPROVAL:	JOB No.: 6470-12-1039		

REFERENCE: SURVEY DATA PROVIDED BY TAYLOR WISEMAN TAYLOR; SITE DRAWING PROVIDED BY VEOLIA; AMEC FIELD NOTES.

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APPENDIX A

FIELD DATA SHEETS

AMEC Environment & Infrastructure, Inc.
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AMEC Environment & Infrastructure, Inc.
4021 Stirrup Creek Drive, Suite 100
Durham, North Carolina 27703

MONITORING WELL SAMPLING WORKSHEET

MONITORING WELL ID:	**MW-1**	AMEC Project:	**6470-12-1039**
PROJECT:	**Veolia ES Technical Solutions**	SITE: **Creedmoor, NC**	DATE: **2/26/2014**
WELL DEPTH:	**30.29 FT.**	SCREENED INTERVAL: **18-28 FT.**	WELL DIAMETER: **2 inch**
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:	**0**	CASING MATERIAL:	**PVC**
SAMPLING DEVICE:	**Peristaltic Pump**	TUBING TYPE:	**Poly**
MEASURING POINT:	**Top of Casing**	DEPTH TO GROUNDWATER:	**2.06**
SAMPLING PERSONNEL:	**Keron Cumberbatch**		

STEEL GUARD PIPE AROUND CASING:	☒	YES	☐	NO		
LOCKING CAP:	☒	YES	☐	NO		
PROTECTIVE POST/ABUTMENT:	☒	YES	☐	NO		
NONPOTABLE LABEL:	☐	YES	☒	NO		
ID PLATE:	☒	YES	☐	NO		
WELL INTEGRITY SATISFACTORY:	☒	YES	☐	NO		
WELL YIELD:	☒	HIGH	☐	MODERATE	☐	LOW

COMMENTS **Groundwater Flow ~ 300 ml/min**

Groundwater quality parameters measured with YSI 556 MPS (Calibrated at 0945)

TIME (MILITARY)	PH (S.U.)	TEMP (^{o}C)	SP. COND. (mS/cm)	D.O. (mg/L)	O.R.P. (mV)	TURBIDITY (ntu)	Comments
1215	3.99	9.86	0.839	4.26	344.1	Clear	
1220	6.44	10.51	0.863	3.24	227.2	Clear	
1225	6.78	10.73	0.878	3.16	206.7	Clear	
1230	6.86	10.85	0.895	2.9	199.2	Clear	
1235	6.90	11.15	0.908	2.78	192.0	Clear	
1240	6.91	11.35	0.917	2.68	187.7	Clear	
1245							Sample Collected

NOTES

[1]Turbidity of the collected samples was determined by visual inspection.

AMEC Environment & Infrastructure, Inc.
4021 Stirrup Creek Drive, Suite 100
Durham, North Carolina 27703

MONITORING WELL SAMPLING WORKSHEET

MONITORING WELL ID:	**MW-2**	AMEC Project:	**6470-12-1039**
PROJECT:	**Veolia ES Technical Solutions**	SITE: **Creedmoor, NC**	DATE: **2/26/2014**
WELL DEPTH:	**25.86 FT.**	SCREENED INTERVAL: **13.5-23.5 FT.**	WELL DIAMETER: **2 inch**
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:	**0**	CASING MATERIAL:	**PVC**
SAMPLING DEVICE:	**Peristaltic Pump**	TUBING TYPE:	**Poly**
MEASURING POINT:	**Top of Casing**	DEPTH TO GROUNDWATER:	**2.86**
SAMPLING PERSONNEL:	**Keron Cumberbatch**		

STEEL GUARD PIPE AROUND CASING:	☒	YES	☐	NO		
LOCKING CAP:	☒	YES	☐	NO		
PROTECTIVE POST/ABUTMENT:	☒	YES	☐	NO		
NONPOTABLE LABEL:	☐	YES	☒	NO		
ID PLATE:	☒	YES	☐	NO		
WELL INTEGRITY SATISFACTORY:	☒	YES	☐	NO		
WELL YIELD:	☒	HIGH	☐	MODERATE	☐	LOW

COMMENTS **Groundwater Flow ~ 300 ml/min**

Groundwater quality parameters measured with YSI 556 MPS (Calibrated at 0945)

TIME (MILITARY)	PH (S.U.)	TEMP (^oC)	SP. COND. (mS/cm)	D.O. (mg/L)	O.R.P. (mV)	TURBIDITY VISUAL [1]	Comments
1000	4.30	11.48	0.083	3.68	386.4	Clear	
1005	2.77	11.42	0.082	3.19	426.3	Clear	
1010	2.72	11.69	0.082	2.92	407.6	Clear	
1015	3.56	11.81	0.082	2.68	352.6	Clear	
1020	4.07	11.90	0.081	2.09	320.4	Clear	
1025	4.57	12.03	0.080	1.79	289.4	Clear	
1030	4.87	12.04	0.080	1.61	271.1	Clear	
1035	5.06	12.07	0.080	1.39	257.1	Clear	
1040	5.21	12.29	0.079	1.29	246.1	Clear	
1045	5.31	12.34	0.079	1.22	238.1	Clear	
1050	5.35	12.34	0.080	1.18	234.2	Clear	
1055							Sample Collected

NOTES

[1]Turbidity of the collected samples was determined by visual inspection.

AMEC Environment & Infrastructure, Inc.
4021 Stirrup Creek Drive, Suite 100
Durham, North Carolina 27703

MONITORING WELL SAMPLING WORKSHEET

MONITORING WELL ID:	**MW-3**	AMEC Project:	**6470-12-1039**
PROJECT:	**Veolia ES Technical Solutions**	SITE: **Creedmoor, NC**	DATE: **2/26/2014**
WELL DEPTH:	**42.40 FT.**	SCREENED INTERVAL: **29-39 FT.**	WELL DIAMETER: **2 inch**
HEIGHT OF MEASURING POINT ABOVE LAND SURFACE:	**0**	CASING MATERIAL:	**PVC**
SAMPLING DEVICE:	**Peristaltic Pump**	TUBING TYPE:	**Poly**
MEASURING POINT:	**Top of Casing**	DEPTH TO GROUNDWATER:	**16.48**
SAMPLING PERSONNEL:	**Keron Cumberbatch**		

STEEL GUARD PIPE AROUND CASING:	☒	YES	☐	NO		
LOCKING CAP:	☒	YES	☐	NO		
PROTECTIVE POST/ABUTMENT:	☒	YES	☐	NO		
NONPOTABLE LABEL:	☐	YES	☒	NO		
ID PLATE:	☒	YES	☐	NO		
WELL INTEGRITY SATISFACTORY:	☒	YES	☐	NO		
WELL YIELD:	☒	HIGH	☐	MODERATE	☐	LOW

COMMENTS **Groundwater Flow ~ 300 ml/min**

Groundwater quality parameters measured with YSI 556 MPS (Calibrated at 0945)

TIME (MILITARY)	PH (S.U.)	TEMP (^oC)	SP. COND. (mS/cm)	D.O. (mg/L)	O.R.P. (mV)	TURBIDITY VISUAL [1]	Comments
1345	7.23	12.11	0.524	7.40	129.0	Clear	
1350	6.97	12.34	0.561	2.26	125.5	Clear	
1355	6.86	12.99	0.556	2.06	131.1	Clear	
1400	6.83	13.23	0.555	1.55	134.8	Clear	
1405	6.82	13.43	0.554	1.93	135.3	Clear	
1410	6.82	13.52	0.553	2.13	137.6	Clear	
1415	6.81	13.60	0.552	2.16	135.6	Clear	
1420	6.81	13.60	0.551	2.20	136.2	Clear	
1425							Sample Collected

NOTES

[1]Turbidity of the collected samples was determined by visual inspection.

APPENDIX B

LABORATORY ANALYTICAL REPORT

AMEC Environment & Infrastructure, Inc.
4021 Stirrup Creek Drive, Suite 100
Durham, North Carolina 27703

Tel: (919) 381-9900
Fax: (919) 381-9901

www.amec.com

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

Thursday, March 13, 2014
AMEC E&I, Inc. (AM017)
Attn: Keron Cumberbatch
4021 Stirrup Creek Dr., Ste. 100
Durham, NC 27703

RE: Laboratory Results for
Project Number: 6470-12-1039, Project Name/Desc: Veolia
ENCO Workorder(s): C402034

Dear Keron Cumberbatch,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, February 27, 2014.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-1 **Lab ID: C402034-01** **Sampled: 02/26/14 12:45** **Received: 02/27/14 09:20**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 1664B	03/26/14			03/04/14	11:15	03/07/14	11:07
EPA 200.7	08/25/14			02/28/14	09:51	03/03/14	12:46
EPA 200.8	08/25/14			03/03/14	09:06	03/04/14	12:23
EPA 245.1	03/26/14			03/04/14	11:10	03/05/14	14:17
EPA 335.4	03/12/14			03/03/14	12:44	03/04/14	14:49
EPA 351.2	03/26/14			02/28/14	07:55	03/03/14	09:52
EPA 353.2	02/28/14	12:45		02/27/14	12:36	02/27/14	16:11
EPA 353.2	03/26/14			02/28/14	12:57	02/28/14	15:31
EPA 353.2	11/21/16			03/03/14	15:10	03/03/14	15:23
EPA 365.4	03/26/14			02/28/14	07:55	03/03/14	11:22
EPA 420.1	03/26/14			03/06/14	07:45	03/06/14	14:00
EPA 608	03/05/14		04/12/14	03/03/14	07:27	03/05/14	17:26
EPA 608	02/26/15		04/12/14	03/03/14	07:05	03/05/14	17:26
EPA 624	03/12/14			03/04/14	12:30	03/05/14	11:07
EPA 625	03/05/14		04/14/14	03/05/14	06:30	03/09/14	19:08
SM 2540D-1997	03/05/14			03/03/14	08:30	03/03/14	08:30
SM 5210B-2001	02/28/14	12:45		02/27/14	15:46	02/27/14	15:46
SM 5220D-1997	03/26/14			02/27/14	11:40	02/27/14	17:07

Client ID: MW-2 **Lab ID: C402034-02** **Sampled: 02/26/14 10:55** **Received: 02/27/14 09:20**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 1664B	03/26/14			03/04/14	11:15	03/07/14	11:07
EPA 200.7	08/25/14			02/28/14	09:51	03/03/14	12:49
EPA 200.8	08/25/14			03/03/14	09:06	03/04/14	12:27
EPA 245.1	03/26/14			03/04/14	11:10	03/05/14	14:19
EPA 335.4	03/12/14			03/03/14	12:44	03/04/14	14:51
EPA 351.2	03/26/14			02/28/14	07:55	03/03/14	09:54
EPA 353.2	02/28/14	10:55		02/27/14	12:36	02/27/14	16:15
EPA 353.2	03/26/14			02/28/14	12:57	02/28/14	15:32
EPA 353.2	11/21/16			03/03/14	15:10	03/03/14	15:23
EPA 365.4	03/26/14			02/28/14	07:55	03/03/14	11:24
EPA 420.1	03/26/14			03/06/14	07:45	03/06/14	14:00
EPA 608	03/05/14		04/12/14	03/03/14	07:27	03/05/14	17:40
EPA 608	02/26/15		04/12/14	03/03/14	07:05	03/05/14	17:40
EPA 624	03/12/14			03/04/14	12:30	03/05/14	11:36
EPA 625	03/05/14		04/14/14	03/05/14	06:30	03/09/14	19:37
SM 2540D-1997	03/05/14			03/03/14	08:30	03/03/14	08:30
SM 5210B-2001	02/28/14	10:55		02/27/14	15:46	02/27/14	15:46
SM 5220D-1997	03/26/14			02/27/14	11:40	02/27/14	17:07

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-3 **Lab ID: C402034-03** **Sampled: 02/26/14 14:25** **Received: 02/27/14 09:20**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 1664B	03/26/14			03/04/14	11:15	03/07/14	11:07
EPA 200.7	08/25/14			02/28/14	09:51	03/03/14	12:51
EPA 200.8	08/25/14			03/03/14	09:06	03/04/14	12:31
EPA 245.1	03/26/14			03/04/14	11:10	03/05/14	14:21
EPA 335.4	03/12/14			03/03/14	12:44	03/04/14	14:52
EPA 351.2	03/26/14			02/28/14	07:55	03/03/14	09:56
EPA 353.2	02/28/14	14:25		02/27/14	12:36	02/27/14	16:16
EPA 353.2	03/26/14			02/28/14	12:57	02/28/14	15:33
EPA 353.2	11/21/16			03/03/14	15:10	03/03/14	15:23
EPA 365.4	03/26/14			02/28/14	07:55	03/03/14	11:25
EPA 420.1	03/26/14			03/06/14	07:45	03/06/14	14:00
EPA 608	03/05/14		04/12/14	03/03/14	07:27	03/05/14	17:53
EPA 608	02/26/15		04/12/14	03/03/14	07:05	03/05/14	17:53
EPA 624	03/12/14			03/04/14	12:30	03/05/14	12:06
SM 2540D-1997	03/05/14			03/03/14	08:30	03/03/14	08:30
SM 5210B-2001	02/28/14	14:25		02/27/14	15:46	02/27/14	15:46
SM 5220D-1997	03/26/14			02/27/14	11:40	02/27/14	17:07

Client ID: MW-3 **Lab ID: C402034-03RE1** **Sampled: 02/26/14 14:25** **Received: 02/27/14 09:20**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 625	03/05/14		04/14/14	03/05/14	06:30	03/10/14	16:19

Client ID: Trip Blank **Lab ID: C402034-04** **Sampled: 02/26/14 10:55** **Received: 02/27/14 09:20**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 624	03/12/14			03/04/14	12:30	03/05/14	12:35

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SAMPLE DETECTION SUMMARY

Client ID: MW-1 **Lab ID: C402034-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	981		1.00	10.0	ug/L	EPA 200.7	
Chemical Oxygen Demand	28		10	10	mg/L	SM 5220D-1997	
Oil & Grease (HEM-SGT) Non-Polar Material	6.21		1.60	5.00	mg/L	EPA 1664B	

Client ID: MW-2 **Lab ID: C402034-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	84.4		1.00	10.0	ug/L	EPA 200.7	
Nitrate as N	1.8		0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	1.8		0.041	0.10	mg/L	EPA 353.2	
Oil & Grease (HEM-SGT) Non-Polar Material	5.08		1.60	5.00	mg/L	EPA 1664B	
Total Suspended Solids	2.0		1.0	1.0	mg/L	SM 2540D-1997	
Vanadium - Total	0.60	J	0.45	1.00	ug/L	EPA 200.8	
Zinc - Total	4.1	J	3.8	10.0	ug/L	EPA 200.7	

Client ID: MW-3 **Lab ID: C402034-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Barium - Total	873		1.00	10.0	ug/L	EPA 200.7	
Lead - Total	2.5	J	2.1	10.0	ug/L	EPA 200.7	
Oil & Grease (HEM-SGT) Non-Polar Material	3.27	J	1.60	5.00	mg/L	EPA 1664B	
Phosphorus	0.24		0.025	0.10	mg/L	EPA 365.4	
Total Suspended Solids	11		1.0	1.0	mg/L	SM 2540D-1997	
Zinc - Total	8.2	J	3.8	10.0	ug/L	EPA 200.7	

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ANALYTICAL RESULTS

Description: MW-1 | **Lab Sample ID:** C402034-01 | **Received:** 02/27/14 09:20
Matrix: Ground Water | **Sampled:** 02/26/14 12:45 | **Work Order:** C402034
Project: Veolia | **Sampled By:** Keron Cumberbatch

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
1,1,2-Trichloroethane [79-00-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
1,1-Dichloroethane [75-34-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
1,1-Dichloroethene [75-35-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
1,2-Dichlorobenzene [95-50-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
1,2-Dichloroethane [107-06-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
1,2-Dichloropropane [78-87-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
1,3-Dichlorobenzene [541-73-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
1,4-Dichlorobenzene [106-46-7]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
2-Chloroethyl Vinyl Ether [110-75-8]^	5.0	U	ug/L	1	5.0	4C04026	EPA 624	03/05/14 11:07	REF	
Acrolein [107-02-8]^	10	U	ug/L	1	10	4C04026	EPA 624	03/05/14 11:07	REF	
Acrylonitrile [107-13-1]^	10	U	ug/L	1	10	4C04026	EPA 624	03/05/14 11:07	REF	
Benzene [71-43-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Bromodichloromethane [75-27-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Bromoform [75-25-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Bromomethane [74-83-9]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Carbon tetrachloride [56-23-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Chlorobenzene [108-90-7]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Chloroethane [75-00-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Chloroform [67-66-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Chloromethane [74-87-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
cis-1,3-Dichloropropene [10061-01-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Dibromochloromethane [124-48-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Ethylbenzene [100-41-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Methylene chloride [75-09-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Tetrachloroethene [127-18-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Toluene [108-88-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
trans-1,2-Dichloroethene [156-60-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
trans-1,3-Dichloropropene [10061-02-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Trichloroethene [79-01-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Trichlorofluoromethane [75-69-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	
Vinyl chloride [75-01-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:07	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*95 %*	*51-122*	*4C04026*	*EPA 624*	*03/05/14 11:07*	*REF*	
Dibromofluoromethane	*45*	*1*	*50.0*	*91 %*	*68-117*	*4C04026*	*EPA 624*	*03/05/14 11:07*	*REF*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*67-127*	*4C04026*	*EPA 624*	*03/05/14 11:07*	*REF*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
1,2-Dichlorobenzene [95-50-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
1,3-Dichlorobenzene [541-73-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
1,4-Dichlorobenzene [106-46-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
2,4,6-Trichlorophenol [88-06-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
2,4-Dichlorophenol [120-83-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	

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ANALYTICAL RESULTS

Description: MW-1 | **Lab Sample ID:** C402034-01 | **Received:** 02/27/14 09:20
Matrix: Ground Water | **Sampled:** 02/26/14 12:45 | **Work Order:** C402034
Project: Veolia | **Sampled By:** Keron Cumberbatch

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
2,4-Dimethylphenol [105-67-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
2,4-Dinitrophenol [51-28-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
2,4-Dinitrotoluene [121-14-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
2,6-Dinitrotoluene [606-20-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
2-Chloronaphthalene [91-58-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
2-Chlorophenol [95-57-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
2-Nitrophenol [88-75-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
4-Bromophenyl-phenylether [101-55-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
4-Chloro-3-methylphenol [59-50-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
4-Nitrophenol [100-02-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Acenaphthene [83-32-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Acenaphthylene [208-96-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Anthracene [120-12-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Benzidine [92-87-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Benzo(a)anthracene [56-55-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Benzo(a)pyrene [50-32-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Benzo(b)fluoranthene [205-99-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Benzo(g,h,i)perylene [191-24-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Benzo(k)fluoranthene [207-08-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	5.0	U	ug/L	1	5.0	4C05001	EPA 625	03/09/14 19:08	DFM	
Butylbenzylphthalate [85-68-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Chrysene [218-01-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Diethylphthalate [84-66-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Dimethylphthalate [131-11-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Di-n-butylphthalate [84-74-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Di-n-octylphthalate [117-84-0]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Fluoranthene [206-44-0]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Fluorene [86-73-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Hexachlorobenzene [118-74-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Hexachlorobutadiene [87-68-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Hexachlorocyclopentadiene [77-47-4]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Hexachloroethane [67-72-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Isophorone [78-59-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Naphthalene [91-20-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Nitrobenzene [98-95-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
N-Nitrosodimethylamine [62-75-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
N-Nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Pentachlorophenol [87-86-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	

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ANALYTICAL RESULTS

Description: MW-1 | **Lab Sample ID:** C402034-01 | **Received:** 02/27/14 09:20
Matrix: Ground Water | **Sampled:** 02/26/14 12:45 | **Work Order:** C402034
Project: Veolia | **Sampled By:** Keron Cumberbatch

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
Phenanthrene [85-01-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Phenol [108-95-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	
Pyrene [129-00-0]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:08	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*78*	*1*	*100*	*78 %*	*18-157*	*4C05001*	*EPA 625*	*03/09/14 19:08*	*DFM*	
2-Fluorobiphenyl	*35*	*1*	*50.0*	*70 %*	*15-139*	*4C05001*	*EPA 625*	*03/09/14 19:08*	*DFM*	
2-Fluorophenol	*40*	*1*	*100*	*40 %*	*10-104*	*4C05001*	*EPA 625*	*03/09/14 19:08*	*DFM*	
Nitrobenzene-d5	*36*	*1*	*50.0*	*72 %*	*16-140*	*4C05001*	*EPA 625*	*03/09/14 19:08*	*DFM*	
Phenol-d5	*33*	*1*	*100*	*33 %*	*10-83*	*4C05001*	*EPA 625*	*03/09/14 19:08*	*DFM*	
Terphenyl-d14	*39*	*1*	*50.0*	*78 %*	*23-164*	*4C05001*	*EPA 625*	*03/09/14 19:08*	*DFM*	

Semivolatile Organic Compounds by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
4,4'-DDE [72-55-9]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
4,4'-DDT [50-29-3]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Aldrin [309-00-2]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
alpha-BHC [319-84-6]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
beta-BHC [319-85-7]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Chlordane (tech) [12789-03-6]^	0.20	U	ug/L	1	0.20	0.50	4C03002	EPA 608	03/05/14 17:26	MWC	
Chlordane-alpha [5103-71-9]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Chlordane-gamma [5566-34-7]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
delta-BHC [319-86-8]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Dieldrin [60-57-1]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Endosulfan I [959-98-8]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Endosulfan II [33213-65-9]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Endosulfan sulfate [1031-07-8]^	0.03	U	ug/L	1	0.03	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Endrin [72-20-8]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Endrin aldehyde [7421-93-4]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Endrin ketone [53494-70-5]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
gamma-BHC [58-89-9]^	0.03	U	ug/L	1	0.03	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Heptachlor [76-44-8]^	0.03	U	ug/L	1	0.03	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Heptachlor epoxide [1024-57-3]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
Methoxychlor [72-43-5]^	0.02	U	ug/L	1	0.02	0.05	4C03002	EPA 608	03/05/14 17:26	MWC	
PCB-1016 [12674-11-2]	0.19	U	ug/L	1	0.19	0.50	4C03003	EPA 608	03/05/14 17:26	MSZ	
PCB-1221 [11104-28-2]^	0.37	U	ug/L	1	0.37	0.50	4C03003	EPA 608	03/05/14 17:26	MSZ	
PCB-1232 [11141-16-5]^	0.45	U	ug/L	1	0.45	0.50	4C03003	EPA 608	03/05/14 17:26	MSZ	
PCB-1242 [53469-21-9]	0.46	U	ug/L	1	0.46	0.50	4C03003	EPA 608	03/05/14 17:26	MSZ	
PCB-1248 [12672-29-6]^	0.01	U	ug/L	1	0.01	0.50	4C03003	EPA 608	03/05/14 17:26	MSZ	
PCB-1254 [11097-69-1]^	0.37	U	ug/L	1	0.37	0.50	4C03003	EPA 608	03/05/14 17:26	MSZ	
PCB-1260 [11096-82-5]^	0.45	U	ug/L	1	0.45	0.50	4C03003	EPA 608	03/05/14 17:26	MSZ	
Toxaphene [8001-35-2]^	0.22	U	ug/L	1	0.22	1.0	4C03002	EPA 608	03/05/14 17:26	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.86*	*1*	*1.00*	*86 %*	*45-151*	*4C03003*	*EPA 608*	*03/05/14 17:26*	*MSZ*	
2,4,5,6-TCMX	*1.1*	*1*	*1.00*	*112 %*	*44-134*	*4C03002*	*EPA 608*	*03/05/14 17:26*	*MWC*	

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ANALYTICAL RESULTS

Description: MW-1	**Lab Sample ID:** C402034-01	**Received:** 02/27/14 09:20
Matrix: Ground Water	**Sampled:** 02/26/14 12:45	**Work Order:** C402034
Project: Veolia	**Sampled By:** Keron Cumberbatch	

Semivolatile Organic Compounds by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Decachlorobiphenyl	*1.0*	*1*	*1.00*	*100 %*	*42-159*		*4C03003*	*EPA 608*	*03/05/14 17:26*	*MSZ*	
Decachlorobiphenyl	*1.1*	*1*	*1.00*	*108 %*	*37-149*		*4C03002*	*EPA 608*	*03/05/14 17:26*	*MWC*	

Metals by EPA 200 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2]^	5.4	U	ug/L	1	5.4	10.0	4B28011	EPA 200.7	03/03/14 12:46	JDH	
Barium [7440-39-3]^	**981**		ug/L	1	1.00	10.0	4B28011	EPA 200.7	03/03/14 12:46	JDH	
Cadmium [7440-43-9]^	0.360	U	ug/L	1	0.360	1.00	4B28011	EPA 200.7	03/03/14 12:46	JDH	
Chromium [7440-47-3]^	1.4	U	ug/L	1	1.4	10.0	4B28011	EPA 200.7	03/03/14 12:46	JDH	
Copper [7440-50-8]^	1.60	U	ug/L	1	1.60	10.0	4B28011	EPA 200.7	03/03/14 12:46	JDH	
Lead [7439-92-1]^	2.1	U	ug/L	1	2.1	10.0	4B28011	EPA 200.7	03/03/14 12:46	JDH	
Mercury [7439-97-6]^	0.170	U	ug/L	1	0.170	0.200	4C04019	EPA 245.1	03/05/14 14:17	T1D	
Nickel [7440-02-0]^	1.8	U	ug/L	1	1.8	10.0	4B28011	EPA 200.7	03/03/14 12:46	JDH	
Selenium [7782-49-2]^	5.0	U	ug/L	1	5.0	10.0	4B28011	EPA 200.7	03/03/14 12:46	JDH	
Silver [7440-22-4]^	1.9	U	ug/L	1	1.9	10.0	4B28011	EPA 200.7	03/03/14 12:46	JDH	
Thallium [7440-28-0]^	0.110	U	ug/L	1	0.110	1.00	4C03010	EPA 200.8	03/04/14 12:23	VLO	
Tin [7440-31-5]^	2.1	U	ug/L	1	2.1	10.0	4B28011	EPA 200.7	03/03/14 12:46	JDH	
Vanadium [7440-62-2]^	0.45	U	ug/L	1	0.45	1.00	4C03010	EPA 200.8	03/04/14 12:23	VLO	
Zinc [7440-66-6]^	3.8	U	ug/L	1	3.8	10.0	4B28011	EPA 200.7	03/03/14 12:46	JDH	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017]^	2.0	U	mg/L	1	2.0	4B27031	SM 5210B-2001	02/27/14 15:46	JOC	B-07
Chemical Oxygen Demand [ECL-0035]^	**28**		mg/L	1	10	4B27015	SM 5220D-1997	02/27/14 17:07	JOC	
Cyanide (total) [57-12-5]^	0.0050	U	mg/L	1	0.0050	4C03005	EPA 335.4	03/04/14 14:49	c1v	
Nitrate as N [14797-55-8]^	0.10	U	mg/L	1	0.10	4C03030	EPA 353.2	03/03/14 15:23	CV	
Nitrate/Nitrite as N [ECL-0010]^	0.10	U	mg/L	1	0.10	4B28022	EPA 353.2	02/28/14 15:31	AJB	
Nitrite as N [14797-65-0]^	0.10	U	mg/L	1	0.10	4B27024	EPA 353.2	02/27/14 16:11	AJB	
Phosphorus [7723-14-0]^	0.10	U	mg/L	1	0.10	4B28001	EPA 365.4	03/03/14 11:22	c1v	
Total Kjeldahl Nitrogen [ECL-0162]^	0.48	U	mg/L	1	0.48	4B28002	EPA 351.2	03/03/14 09:52	c1v	
Total Suspended Solids [ECL-0169]^	1.0	U	mg/L	1	1.0	4C03004	SM 2540D-1997	03/03/14 08:30	MMR	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
Phenolics [ECL-0123]^	0.05	U	mg/L	1	0.05	4C06008	EPA 420.1	03/06/14 14:00	RMM	

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ANALYTICAL RESULTS

Description:	MW-1	**Lab Sample ID:**	C402034-01	**Received:**	02/27/14 09:20
Matrix:	Ground Water	**Sampled:**	02/26/14 12:45	**Work Order:**	C402034
Project:	Veolia	**Sampled By:**	Keron Cumberbatch		

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM-SGT) Non-Polar Material [ECL-0104]^	**6.21**		mg/L	1	1.60	5.00	4C04002	EPA 1664B	03/07/14 11:07	MJF	

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ANALYTICAL RESULTS

Description: MW-2	**Lab Sample ID:** C402034-02	**Received:** 02/27/14 09:20
Matrix: Ground Water	**Sampled:** 02/26/14 10:55	**Work Order:** C402034
Project: Veolia	**Sampled By:** Keron Cumberbatch	

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
1,1,2-Trichloroethane [79-00-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
1,1-Dichloroethane [75-34-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
1,1-Dichloroethene [75-35-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
1,2-Dichlorobenzene [95-50-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
1,2-Dichloroethane [107-06-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
1,2-Dichloropropane [78-87-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
1,3-Dichlorobenzene [541-73-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
1,4-Dichlorobenzene [106-46-7]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
2-Chloroethyl Vinyl Ether [110-75-8]^	5.0	U	ug/L	1	5.0	4C04026	EPA 624	03/05/14 11:36	REF	
Acrolein [107-02-8]^	10	U	ug/L	1	10	4C04026	EPA 624	03/05/14 11:36	REF	
Acrylonitrile [107-13-1]^	10	U	ug/L	1	10	4C04026	EPA 624	03/05/14 11:36	REF	
Benzene [71-43-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Bromodichloromethane [75-27-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Bromoform [75-25-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Bromomethane [74-83-9]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Carbon tetrachloride [56-23-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Chlorobenzene [108-90-7]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Chloroethane [75-00-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Chloroform [67-66-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Chloromethane [74-87-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
cis-1,3-Dichloropropene [10061-01-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Dibromochloromethane [124-48-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Ethylbenzene [100-41-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Methylene chloride [75-09-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Tetrachloroethene [127-18-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Toluene [108-88-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
trans-1,2-Dichloroethene [156-60-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
trans-1,3-Dichloropropene [10061-02-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Trichloroethene [79-01-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Trichlorofluoromethane [75-69-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	
Vinyl chloride [75-01-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 11:36	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*4C04026*	*EPA 624*	*03/05/14 11:36*	*REF*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*68-117*	*4C04026*	*EPA 624*	*03/05/14 11:36*	*REF*	
Toluene-d8	*49*	*1*	*50.0*	*98 %*	*67-127*	*4C04026*	*EPA 624*	*03/05/14 11:36*	*REF*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
1,2-Dichlorobenzene [95-50-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
1,3-Dichlorobenzene [541-73-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
1,4-Dichlorobenzene [106-46-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
2,4,6-Trichlorophenol [88-06-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
2,4-Dichlorophenol [120-83-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	

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ANALYTICAL RESULTS

Description: MW-2 | **Lab Sample ID:** C402034-02 | **Received:** 02/27/14 09:20
Matrix: Ground Water | **Sampled:** 02/26/14 10:55 | **Work Order:** C402034
Project: Veolia | **Sampled By:** Keron Cumberbatch

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
2,4-Dimethylphenol [105-67-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
2,4-Dinitrophenol [51-28-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
2,4-Dinitrotoluene [121-14-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
2,6-Dinitrotoluene [606-20-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
2-Chloronaphthalene [91-58-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
2-Chlorophenol [95-57-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
2-Nitrophenol [88-75-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
4-Bromophenyl-phenylether [101-55-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
4-Chloro-3-methylphenol [59-50-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
4-Nitrophenol [100-02-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Acenaphthene [83-32-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Acenaphthylene [208-96-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Anthracene [120-12-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Benzidine [92-87-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Benzo(a)anthracene [56-55-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Benzo(a)pyrene [50-32-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Benzo(b)fluoranthene [205-99-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Benzo(g,h,i)perylene [191-24-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Benzo(k)fluoranthene [207-08-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	5.0	U	ug/L	1	5.0	4C05001	EPA 625	03/09/14 19:37	DFM	
Butylbenzylphthalate [85-68-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Chrysene [218-01-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Diethylphthalate [84-66-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Dimethylphthalate [131-11-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Di-n-butylphthalate [84-74-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Di-n-octylphthalate [117-84-0]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Fluoranthene [206-44-0]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Fluorene [86-73-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Hexachlorobenzene [118-74-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Hexachlorobutadiene [87-68-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Hexachlorocyclopentadiene [77-47-4]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Hexachloroethane [67-72-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Isophorone [78-59-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Naphthalene [91-20-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Nitrobenzene [98-95-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
N-Nitrosodimethylamine [62-75-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
N-Nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Pentachlorophenol [87-86-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	

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ANALYTICAL RESULTS

Description: MW-2 | **Lab Sample ID:** C402034-02 | **Received:** 02/27/14 09:20
Matrix: Ground Water | **Sampled:** 02/26/14 10:55 | **Work Order:** C402034
Project: Veolia | **Sampled By:** Keron Cumberbatch

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
Phenanthrene [85-01-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Phenol [108-95-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	
Pyrene [129-00-0]^	10	U	ug/L	1	10	4C05001	EPA 625	03/09/14 19:37	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*62*	*1*	*100*	*62 %*	*18-157*	*4C05001*	*EPA 625*	*03/09/14 19:37*	*DFM*	
2-Fluorobiphenyl	*36*	*1*	*50.0*	*72 %*	*15-139*	*4C05001*	*EPA 625*	*03/09/14 19:37*	*DFM*	
2-Fluorophenol	*42*	*1*	*100*	*42 %*	*10-104*	*4C05001*	*EPA 625*	*03/09/14 19:37*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*75 %*	*16-140*	*4C05001*	*EPA 625*	*03/09/14 19:37*	*DFM*	
Phenol-d5	*35*	*1*	*100*	*35 %*	*10-83*	*4C05001*	*EPA 625*	*03/09/14 19:37*	*DFM*	
Terphenyl-d14	*38*	*1*	*50.0*	*75 %*	*23-164*	*4C05001*	*EPA 625*	*03/09/14 19:37*	*DFM*	

Semivolatile Organic Compounds by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
4,4'-DDE [72-55-9]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
4,4'-DDT [50-29-3]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Aldrin [309-00-2]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
alpha-BHC [319-84-6]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
beta-BHC [319-85-7]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Chlordane (tech) [12789-03-6]^	0.20	U	ug/L	1	0.20	0.50	4C03002	EPA 608	03/05/14 17:40	MWC	
Chlordane-alpha [5103-71-9]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Chlordane-gamma [5566-34-7]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
delta-BHC [319-86-8]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Dieldrin [60-57-1]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Endosulfan I [959-98-8]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Endosulfan II [33213-65-9]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Endosulfan sulfate [1031-07-8]^	0.03	U	ug/L	1	0.03	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Endrin [72-20-8]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Endrin aldehyde [7421-93-4]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Endrin ketone [53494-70-5]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
gamma-BHC [58-89-9]^	0.03	U	ug/L	1	0.03	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Heptachlor [76-44-8]^	0.03	U	ug/L	1	0.03	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Heptachlor epoxide [1024-57-3]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
Methoxychlor [72-43-5]^	0.02	U	ug/L	1	0.02	0.05	4C03002	EPA 608	03/05/14 17:40	MWC	
PCB-1016 [12674-11-2]	0.19	U	ug/L	1	0.19	0.50	4C03003	EPA 608	03/05/14 17:40	MSZ	
PCB-1221 [11104-28-2]^	0.37	U	ug/L	1	0.37	0.50	4C03003	EPA 608	03/05/14 17:40	MSZ	
PCB-1232 [11141-16-5]^	0.45	U	ug/L	1	0.45	0.50	4C03003	EPA 608	03/05/14 17:40	MSZ	
PCB-1242 [53469-21-9]	0.46	U	ug/L	1	0.46	0.50	4C03003	EPA 608	03/05/14 17:40	MSZ	
PCB-1248 [12672-29-6]^	0.01	U	ug/L	1	0.01	0.50	4C03003	EPA 608	03/05/14 17:40	MSZ	
PCB-1254 [11097-69-1]^	0.37	U	ug/L	1	0.37	0.50	4C03003	EPA 608	03/05/14 17:40	MSZ	
PCB-1260 [11096-82-5]^	0.45	U	ug/L	1	0.45	0.50	4C03003	EPA 608	03/05/14 17:40	MSZ	
Toxaphene [8001-35-2]^	0.22	U	ug/L	1	0.22	1.0	4C03002	EPA 608	03/05/14 17:40	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.67*	*1*	*1.00*	*67 %*	*45-151*	*4C03003*	*EPA 608*	*03/05/14 17:40*	*MSZ*	
2,4,5,6-TCMX	*0.94*	*1*	*1.00*	*94 %*	*44-134*	*4C03002*	*EPA 608*	*03/05/14 17:40*	*MWC*	

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ANALYTICAL RESULTS

Description: MW-2 | **Lab Sample ID:** C402034-02 | **Received:** 02/27/14 09:20
Matrix: Ground Water | **Sampled:** 02/26/14 10:55 | **Work Order:** C402034
Project: Veolia | **Sampled By:** Keron Cumberbatch

Semivolatile Organic Compounds by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Decachlorobiphenyl	*0.76*	*1*	*1.00*	*76 %*	*42-159*		*4C03003*	*EPA 608*	*03/05/14 17:40*	*MSZ*	
Decachlorobiphenyl	*0.92*	*1*	*1.00*	*92 %*	*37-149*		*4C03002*	*EPA 608*	*03/05/14 17:40*	*MWC*	

Metals by EPA 200 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2]^	5.4	U	ug/L	1	5.4	10.0	4B28011	EPA 200.7	03/03/14 12:49	JDH	
Barium [7440-39-3]^	**84.4**		ug/L	1	1.00	10.0	4B28011	EPA 200.7	03/03/14 12:49	JDH	
Cadmium [7440-43-9]^	0.360	U	ug/L	1	0.360	1.00	4B28011	EPA 200.7	03/03/14 12:49	JDH	
Chromium [7440-47-3]^	1.4	U	ug/L	1	1.4	10.0	4B28011	EPA 200.7	03/03/14 12:49	JDH	
Copper [7440-50-8]^	1.60	U	ug/L	1	1.60	10.0	4B28011	EPA 200.7	03/03/14 12:49	JDH	
Lead [7439-92-1]^	2.1	U	ug/L	1	2.1	10.0	4B28011	EPA 200.7	03/03/14 12:49	JDH	
Mercury [7439-97-6]^	0.170	U	ug/L	1	0.170	0.200	4C04019	EPA 245.1	03/05/14 14:19	T1D	
Nickel [7440-02-0]^	1.8	U	ug/L	1	1.8	10.0	4B28011	EPA 200.7	03/03/14 12:49	JDH	
Selenium [7782-49-2]^	5.0	U	ug/L	1	5.0	10.0	4B28011	EPA 200.7	03/03/14 12:49	JDH	
Silver [7440-22-4]^	1.9	U	ug/L	1	1.9	10.0	4B28011	EPA 200.7	03/03/14 12:49	JDH	
Thallium [7440-28-0]^	0.110	U	ug/L	1	0.110	1.00	4C03010	EPA 200.8	03/04/14 12:27	VLO	
Tin [7440-31-5]^	2.1	U	ug/L	1	2.1	10.0	4B28011	EPA 200.7	03/03/14 12:49	JDH	
Vanadium [7440-62-2]^	**0.60**	J	ug/L	1	0.45	1.00	4C03010	EPA 200.8	03/04/14 12:27	VLO	
Zinc [7440-66-6]^	**4.1**	J	ug/L	1	3.8	10.0	4B28011	EPA 200.7	03/03/14 12:49	JDH	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017]^	2.0	U	mg/L	1	2.0	4B27031	SM 5210B-2001	02/27/14 15:46	JOC	B-07
Chemical Oxygen Demand [ECL-0035]^	10	U	mg/L	1	10	4B27015	SM 5220D-1997	02/27/14 17:07	JOC	
Cyanide (total) [57-12-5]^	0.0050	U	mg/L	1	0.0050	4C03005	EPA 335.4	03/04/14 14:51	c1v	
Nitrate as N [14797-55-8]^	**1.8**		mg/L	1	0.10	4C03030	EPA 353.2	03/03/14 15:23	CV	
Nitrate/Nitrite as N [ECL-0010]^	**1.8**		mg/L	1	0.10	4B28022	EPA 353.2	02/28/14 15:32	AJB	
Nitrite as N [14797-65-0]^	0.10	U	mg/L	1	0.10	4B27024	EPA 353.2	02/27/14 16:15	AJB	
Phosphorus [7723-14-0]^	0.10	U	mg/L	1	0.10	4B28001	EPA 365.4	03/03/14 11:24	c1v	
Total Kjeldahl Nitrogen [ECL-0162]^	0.48	U	mg/L	1	0.48	4B28002	EPA 351.2	03/03/14 09:54	c1v	
Total Suspended Solids [ECL-0169]^	**2.0**		mg/L	1	1.0	4C03004	SM 2540D-1997	03/03/14 08:30	MMR	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
Phenolics [ECL-0123]^	0.05	U	mg/L	1	0.05	4C06008	EPA 420.1	03/06/14 14:00	RMM	

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ANALYTICAL RESULTS

Description:	MW-2	**Lab Sample ID:**	C402034-02	**Received:**	02/27/14 09:20
Matrix:	Ground Water	**Sampled:**	02/26/14 10:55	**Work Order:**	C402034
Project:	Veolia	**Sampled By:**	Keron Cumberbatch		

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM-SGT) Non-Polar Material [ECL-0104]^	**5.08**		mg/L	1	1.60	5.00	4C04002	EPA 1664B	03/07/14 11:07	MJF	

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ANALYTICAL RESULTS

Description: MW-3 | **Lab Sample ID:** C402034-03 | **Received:** 02/27/14 09:20
Matrix: Ground Water | **Sampled:** 02/26/14 14:25 | **Work Order:** C402034
Project: Veolia | **Sampled By:** Keron Cumberbatch

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
1,1,2-Trichloroethane [79-00-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
1,1-Dichloroethane [75-34-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
1,1-Dichloroethene [75-35-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
1,2-Dichlorobenzene [95-50-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
1,2-Dichloroethane [107-06-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
1,2-Dichloropropane [78-87-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
1,3-Dichlorobenzene [541-73-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
1,4-Dichlorobenzene [106-46-7]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
2-Chloroethyl Vinyl Ether [110-75-8]^	5.0	U	ug/L	1	5.0	4C04026	EPA 624	03/05/14 12:06	REF	
Acrolein [107-02-8]^	10	U	ug/L	1	10	4C04026	EPA 624	03/05/14 12:06	REF	
Acrylonitrile [107-13-1]^	10	U	ug/L	1	10	4C04026	EPA 624	03/05/14 12:06	REF	
Benzene [71-43-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Bromodichloromethane [75-27-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Bromoform [75-25-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Bromomethane [74-83-9]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Carbon tetrachloride [56-23-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Chlorobenzene [108-90-7]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Chloroethane [75-00-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Chloroform [67-66-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Chloromethane [74-87-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
cis-1,3-Dichloropropene [10061-01-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Dibromochloromethane [124-48-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Ethylbenzene [100-41-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Methylene chloride [75-09-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Tetrachloroethene [127-18-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Toluene [108-88-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
trans-1,2-Dichloroethene [156-60-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
trans-1,3-Dichloropropene [10061-02-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Trichloroethene [79-01-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Trichlorofluoromethane [75-69-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	
Vinyl chloride [75-01-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:06	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*4C04026*	*EPA 624*	*03/05/14 12:06*	*REF*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*68-117*	*4C04026*	*EPA 624*	*03/05/14 12:06*	*REF*	
Toluene-d8	*48*	*1*	*50.0*	*97 %*	*67-127*	*4C04026*	*EPA 624*	*03/05/14 12:06*	*REF*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
1,2,4-Trichlorobenzene [120-82-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
1,2-Dichlorobenzene [95-50-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
1,3-Dichlorobenzene [541-73-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
1,4-Dichlorobenzene [106-46-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
2,4,6-Trichlorophenol [88-06-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
2,4-Dichlorophenol [120-83-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	

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ANALYTICAL RESULTS

Description: MW-3 | **Lab Sample ID:** C402034-03 | **Received:** 02/27/14 09:20

Matrix: Ground Water | **Sampled:** 02/26/14 14:25 | **Work Order:** C402034

Project: Veolia | **Sampled By:** Keron Cumberbatch

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
2,4-Dimethylphenol [105-67-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
2,4-Dinitrophenol [51-28-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
2,4-Dinitrotoluene [121-14-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
2,6-Dinitrotoluene [606-20-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
2-Chloronaphthalene [91-58-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
2-Chlorophenol [95-57-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
2-Nitrophenol [88-75-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
4-Bromophenyl-phenylether [101-55-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
4-Chloro-3-methylphenol [59-50-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
4-Nitrophenol [100-02-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Acenaphthene [83-32-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Acenaphthylene [208-96-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Anthracene [120-12-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Benzidine [92-87-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Benzo(a)anthracene [56-55-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Benzo(a)pyrene [50-32-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Benzo(b)fluoranthene [205-99-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Benzo(g,h,i)perylene [191-24-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Benzo(k)fluoranthene [207-08-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	5.0	U	ug/L	1	5.0	4C05001	EPA 625	03/10/14 16:19	DFM	
Butylbenzylphthalate [85-68-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Chrysene [218-01-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Diethylphthalate [84-66-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Dimethylphthalate [131-11-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Di-n-butylphthalate [84-74-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Di-n-octylphthalate [117-84-0]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Fluoranthene [206-44-0]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Fluorene [86-73-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Hexachlorobenzene [118-74-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Hexachlorobutadiene [87-68-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Hexachlorocyclopentadiene [77-47-4]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Hexachloroethane [67-72-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Isophorone [78-59-1]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Naphthalene [91-20-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Nitrobenzene [98-95-3]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
N-Nitrosodimethylamine [62-75-9]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
N-Nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Pentachlorophenol [87-86-5]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	

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ANALYTICAL RESULTS

Description: MW-3 | **Lab Sample ID:** C402034-03 | **Received:** 02/27/14 09:20
Matrix: Ground Water | **Sampled:** 02/26/14 14:25 | **Work Order:** C402034
Project: Veolia | **Sampled By:** Keron Cumberbatch

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
Phenanthrene [85-01-8]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Phenol [108-95-2]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	
Pyrene [129-00-0]^	10	U	ug/L	1	10	4C05001	EPA 625	03/10/14 16:19	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*83*	*1*	*100*	*83 %*	*18-157*	*4C05001*	*EPA 625*	*03/10/14 16:19*	*DFM*	
2-Fluorobiphenyl	*39*	*1*	*50.0*	*77 %*	*15-139*	*4C05001*	*EPA 625*	*03/10/14 16:19*	*DFM*	
2-Fluorophenol	*57*	*1*	*100*	*57 %*	*10-104*	*4C05001*	*EPA 625*	*03/10/14 16:19*	*DFM*	
Nitrobenzene-d5	*39*	*1*	*50.0*	*79 %*	*16-140*	*4C05001*	*EPA 625*	*03/10/14 16:19*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*10-83*	*4C05001*	*EPA 625*	*03/10/14 16:19*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*85 %*	*23-164*	*4C05001*	*EPA 625*	*03/10/14 16:19*	*DFM*	

Semivolatile Organic Compounds by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4,4'-DDD [72-54-8]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
4,4'-DDE [72-55-9]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
4,4'-DDT [50-29-3]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Aldrin [309-00-2]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
alpha-BHC [319-84-6]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
beta-BHC [319-85-7]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Chlordane (tech) [12789-03-6]^	0.20	U	ug/L	1	0.20	0.50	4C03002	EPA 608	03/05/14 17:53	MWC	
Chlordane-alpha [5103-71-9]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Chlordane-gamma [5566-34-7]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
delta-BHC [319-86-8]^	0.05	U	ug/L	1	0.05	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Dieldrin [60-57-1]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Endosulfan I [959-98-8]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Endosulfan II [33213-65-9]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Endosulfan sulfate [1031-07-8]^	0.03	U	ug/L	1	0.03	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Endrin [72-20-8]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Endrin aldehyde [7421-93-4]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Endrin ketone [53494-70-5]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
gamma-BHC [58-89-9]^	0.03	U	ug/L	1	0.03	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Heptachlor [76-44-8]^	0.03	U	ug/L	1	0.03	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Heptachlor epoxide [1024-57-3]^	0.04	U	ug/L	1	0.04	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
Methoxychlor [72-43-5]^	0.02	U	ug/L	1	0.02	0.05	4C03002	EPA 608	03/05/14 17:53	MWC	
PCB-1016 [12674-11-2]	0.19	U	ug/L	1	0.19	0.50	4C03003	EPA 608	03/05/14 17:53	MSZ	
PCB-1221 [11104-28-2]^	0.37	U	ug/L	1	0.37	0.50	4C03003	EPA 608	03/05/14 17:53	MSZ	
PCB-1232 [11141-16-5]^	0.45	U	ug/L	1	0.45	0.50	4C03003	EPA 608	03/05/14 17:53	MSZ	
PCB-1242 [53469-21-9]	0.46	U	ug/L	1	0.46	0.50	4C03003	EPA 608	03/05/14 17:53	MSZ	
PCB-1248 [12672-29-6]^	0.01	U	ug/L	1	0.01	0.50	4C03003	EPA 608	03/05/14 17:53	MSZ	
PCB-1254 [11097-69-1]^	0.37	U	ug/L	1	0.37	0.50	4C03003	EPA 608	03/05/14 17:53	MSZ	
PCB-1260 [11096-82-5]^	0.45	U	ug/L	1	0.45	0.50	4C03003	EPA 608	03/05/14 17:53	MSZ	
Toxaphene [8001-35-2]^	0.22	U	ug/L	1	0.22	1.0	4C03002	EPA 608	03/05/14 17:53	MWC	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,5,6-TCMX	*0.71*	*1*	*1.00*	*71 %*	*45-151*	*4C03003*	*EPA 608*	*03/05/14 17:53*	*MSZ*	
2,4,5,6-TCMX	*0.94*	*1*	*1.00*	*94 %*	*44-134*	*4C03002*	*EPA 608*	*03/05/14 17:53*	*MWC*	

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ANALYTICAL RESULTS

Description: MW-3	**Lab Sample ID:** C402034-03	**Received:** 02/27/14 09:20
Matrix: Ground Water	**Sampled:** 02/26/14 14:25	**Work Order:** C402034
Project: Veolia	**Sampled By:** Keron Cumberbatch	

Semivolatile Organic Compounds by GC

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Decachlorobiphenyl	*0.82*	*1*	*1.00*	*82 %*	*42-159*		*4C03003*	*EPA 608*	*03/05/14 17:53*	*MSZ*	
Decachlorobiphenyl	*0.92*	*1*	*1.00*	*92 %*	*37-149*		*4C03002*	*EPA 608*	*03/05/14 17:53*	*MWC*	

Metals by EPA 200 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Arsenic [7440-38-2]^	5.4	U	ug/L	1	5.4	10.0	4B28011	EPA 200.7	03/03/14 12:51	JDH	
Barium [7440-39-3]^	**873**		ug/L	1	1.00	10.0	4B28011	EPA 200.7	03/03/14 12:51	JDH	
Cadmium [7440-43-9]^	0.360	U	ug/L	1	0.360	1.00	4B28011	EPA 200.7	03/03/14 12:51	JDH	
Chromium [7440-47-3]^	1.4	U	ug/L	1	1.4	10.0	4B28011	EPA 200.7	03/03/14 12:51	JDH	
Copper [7440-50-8]^	1.60	U	ug/L	1	1.60	10.0	4B28011	EPA 200.7	03/03/14 12:51	JDH	
Lead [7439-92-1]^	**2.5**	J	ug/L	1	2.1	10.0	4B28011	EPA 200.7	03/03/14 12:51	JDH	
Mercury [7439-97-6]^	0.170	U	ug/L	1	0.170	0.200	4C04019	EPA 245.1	03/05/14 14:21	T1D	
Nickel [7440-02-0]^	1.8	U	ug/L	1	1.8	10.0	4B28011	EPA 200.7	03/03/14 12:51	JDH	
Selenium [7782-49-2]^	5.0	U	ug/L	1	5.0	10.0	4B28011	EPA 200.7	03/03/14 12:51	JDH	
Silver [7440-22-4]^	1.9	U	ug/L	1	1.9	10.0	4B28011	EPA 200.7	03/03/14 12:51	JDH	
Thallium [7440-28-0]^	0.110	U	ug/L	1	0.110	1.00	4C03010	EPA 200.8	03/04/14 12:31	VLO	
Tin [7440-31-5]^	2.1	U	ug/L	1	2.1	10.0	4B28011	EPA 200.7	03/03/14 12:51	JDH	
Vanadium [7440-62-2]^	0.45	U	ug/L	1	0.45	1.00	4C03010	EPA 200.8	03/04/14 12:31	VLO	
Zinc [7440-66-6]^	**8.2**	J	ug/L	1	3.8	10.0	4B28011	EPA 200.7	03/03/14 12:51	JDH	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017]^	2.0	U	mg/L	1	2.0	4B27031	SM 5210B-2001	02/27/14 15:46	JOC	B-07
Chemical Oxygen Demand [ECL-0035]^	10	U	mg/L	1	10	4B27015	SM 5220D-1997	02/27/14 17:07	JOC	
Cyanide (total) [57-12-5]^	0.0050	U	mg/L	1	0.0050	4C03005	EPA 335.4	03/04/14 14:52	c1v	
Nitrate as N [14797-55-8]^	0.10	U	mg/L	1	0.10	4C03030	EPA 353.2	03/03/14 15:23	CV	
Nitrate/Nitrite as N [ECL-0010]^	0.10	U	mg/L	1	0.10	4B28022	EPA 353.2	02/28/14 15:33	AJB	
Nitrite as N [14797-65-0]^	0.10	U	mg/L	1	0.10	4B27024	EPA 353.2	02/27/14 16:16	AJB	
Phosphorus [7723-14-0]^	**0.24**		mg/L	1	0.10	4B28001	EPA 365.4	03/03/14 11:25	c1v	
Total Kjeldahl Nitrogen [ECL-0162]^	0.48	U	mg/L	1	0.48	4B28002	EPA 351.2	03/03/14 09:56	c1v	
Total Suspended Solids [ECL-0169]^	**11**		mg/L	1	1.0	4C03004	SM 2540D-1997	03/03/14 08:30	MMR	

Classical Chemistry Parameters

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
Phenolics [ECL-0123]^	0.05	U	mg/L	1	0.05	4C06008	EPA 420.1	03/06/14 14:00	RMM	

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ANALYTICAL RESULTS

Description: MW-3 | **Lab Sample ID:** C402034-03 | **Received:** 02/27/14 09:20
Matrix: Ground Water | **Sampled:** 02/26/14 14:25 | **Work Order:** C402034
Project: Veolia | **Sampled By:** Keron Cumberbatch

Classical Chemistry Parameters

^ - ENCO Jacksonville certified analyte [NC 442]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Oil & Grease (HEM-SGT) Non-Polar Material [ECL-0104]^	**3.27**	J	mg/L	1	1.60	5.00	4C04002	EPA 1664B	03/07/14 11:07	MJF	

Description: Trip Blank | **Lab Sample ID:** C402034-04 | **Received:** 02/27/14 09:20
Matrix: Water | **Sampled:** 02/26/14 10:55 | **Work Order:** C402034
Project: Veolia | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
1,1,2-Trichloroethane [79-00-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
1,1-Dichloroethane [75-34-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
1,1-Dichloroethene [75-35-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
1,2-Dichlorobenzene [95-50-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
1,2-Dichloroethane [107-06-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
1,2-Dichloropropane [78-87-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
1,3-Dichlorobenzene [541-73-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
1,4-Dichlorobenzene [106-46-7]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
2-Chloroethyl Vinyl Ether [110-75-8]^	5.0	U	ug/L	1	5.0	4C04026	EPA 624	03/05/14 12:35	REF	
Acrolein [107-02-8]^	10	U	ug/L	1	10	4C04026	EPA 624	03/05/14 12:35	REF	
Acrylonitrile [107-13-1]^	10	U	ug/L	1	10	4C04026	EPA 624	03/05/14 12:35	REF	
Benzene [71-43-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Bromodichloromethane [75-27-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Bromoform [75-25-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Bromomethane [74-83-9]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Carbon tetrachloride [56-23-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Chlorobenzene [108-90-7]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Chloroethane [75-00-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Chloroform [67-66-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Chloromethane [74-87-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
cis-1,3-Dichloropropene [10061-01-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Dibromochloromethane [124-48-1]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Ethylbenzene [100-41-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Methylene chloride [75-09-2]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Tetrachloroethene [127-18-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Toluene [108-88-3]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
trans-1,2-Dichloroethene [156-60-5]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
trans-1,3-Dichloropropene [10061-02-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Trichloroethene [79-01-6]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Trichlorofluoromethane [75-69-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	
Vinyl chloride [75-01-4]^	1.0	U	ug/L	1	1.0	4C04026	EPA 624	03/05/14 12:35	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*51-122*	*4C04026*	*EPA 624*	*03/05/14 12:35*	*REF*	
Dibromofluoromethane	*46*	*1*	*50.0*	*93 %*	*68-117*	*4C04026*	*EPA 624*	*03/05/14 12:35*	*REF*	
Toluene-d8	*48*	*1*	*50.0*	*96 %*	*67-127*	*4C04026*	*EPA 624*	*03/05/14 12:35*	*REF*	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4C04026 - EPA 5030B_MS

Blank (4C04026-BLK1) Prepared: 03/04/2014 12:30 Analyzed: 03/05/2014 03:39

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	1.0	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	1.0	U	1.0	ug/L							
1,1,2-Trichloroethane	1.0	U	1.0	ug/L							
1,1-Dichloroethane	1.0	U	1.0	ug/L							
1,1-Dichloroethene	1.0	U	1.0	ug/L							
1,2-Dichlorobenzene	1.0	U	1.0	ug/L							
1,2-Dichloroethane	1.0	U	1.0	ug/L							
1,2-Dichloropropane	1.0	U	1.0	ug/L							
1,3-Dichlorobenzene	1.0	U	1.0	ug/L							
1,4-Dichlorobenzene	1.0	U	1.0	ug/L							
2-Chloroethyl Vinyl Ether	5.0	U	5.0	ug/L							
Acrolein	10	U	10	ug/L							
Acrylonitrile	10	U	10	ug/L							
Benzene	1.0	U	1.0	ug/L							
Bromodichloromethane	1.0	U	1.0	ug/L							
Bromoform	1.0	U	1.0	ug/L							
Bromomethane	1.0	U	1.0	ug/L							
Carbon tetrachloride	1.0	U	1.0	ug/L							
Chlorobenzene	1.0	U	1.0	ug/L							
Chloroethane	1.0	U	1.0	ug/L							
Chloroform	1.0	U	1.0	ug/L							
Chloromethane	1.0	U	1.0	ug/L							
cis-1,3-Dichloropropene	1.0	U	1.0	ug/L							
Dibromochloromethane	1.0	U	1.0	ug/L							
Ethylbenzene	1.0	U	1.0	ug/L							
Methylene chloride	1.0	U	1.0	ug/L							
Tetrachloroethene	1.0	U	1.0	ug/L							
Toluene	1.0	U	1.0	ug/L							
trans-1,2-Dichloroethene	1.0	U	1.0	ug/L							
trans-1,3-Dichloropropene	1.0	U	1.0	ug/L							
Trichloroethene	1.0	U	1.0	ug/L							
Trichlorofluoromethane	1.0	U	1.0	ug/L							
Vinyl chloride	1.0	U	1.0	ug/L							
1,2-Dichloroethane-d4	*47*			*ug/L*	*50.0*		*94*	*57-131*			
4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*93*	*51-122*			
Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*67-127*			

LCS (4C04026-BS1) Prepared: 03/04/2014 12:30 Analyzed: 03/05/2014 04:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	19		1.0	ug/L	20.0		93	52-162			
1,1,2,2-Tetrachloroethane	19		1.0	ug/L	20.0		94	46-157			
1,1,2-Trichloroethane	21		1.0	ug/L	20.0		103	52-150			
1,1-Dichloroethane	19		1.0	ug/L	20.0		97	59-155			
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	10-234			
1,2-Dichlorobenzene	20		1.0	ug/L	20.0		99	18-190			
1,2-Dichloroethane	19		1.0	ug/L	20.0		96	49-155			
1,2-Dichloropropane	18		1.0	ug/L	20.0		92	10-210			

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4C04026 - EPA 5030B_MS - Continued

LCS (4C04026-BS1) Continued Prepared: 03/04/2014 12:30 Analyzed: 03/05/2014 04:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,3-Dichlorobenzene	19		1.0	ug/L	20.0		96	59-156			
1,4-Dichlorobenzene	18		1.0	ug/L	20.0		88	18-190			
2-Chloroethyl Vinyl Ether	36		5.0	ug/L	40.0		89	10-305			
Acrolein	32		10	ug/L	40.0		81	10-200			
Acrylonitrile	58		10	ug/L	60.0		97	10-200			
Benzene	18		1.0	ug/L	20.0		91	37-151			
Bromodichloromethane	19		1.0	ug/L	20.0		96	35-155			
Bromoform	17		1.0	ug/L	20.0		87	45-169			
Bromomethane	23		1.0	ug/L	20.0		115	10-242			
Carbon tetrachloride	18		1.0	ug/L	20.0		92	17-140			
Chlorobenzene	20		1.0	ug/L	20.0		100	37-160			
Chloroethane	24		1.0	ug/L	20.0		122	14-230			
Chloroform	18		1.0	ug/L	20.0		92	51-138			
Chloromethane	21		1.0	ug/L	20.0		104	10-273			
cis-1,3-Dichloropropene	18		1.0	ug/L	20.0		88	10-227			
Dibromochloromethane	19		1.0	ug/L	20.0		96	53-149			
Ethylbenzene	18		1.0	ug/L	20.0		89	37-162			
Methylene chloride	18		1.0	ug/L	20.0		90	10-221			
Tetrachloroethene	20		1.0	ug/L	20.0		100	64-148			
Toluene	18		1.0	ug/L	20.0		90	47-150			
trans-1,2-Dichloroethene	18		1.0	ug/L	20.0		92	54-156			
trans-1,3-Dichloropropene	20		1.0	ug/L	20.0		98	17-183			
Trichloroethene	19		1.0	ug/L	20.0		95	71-157			
Trichlorofluoromethane	20		1.0	ug/L	20.0		100	17-181			
Vinyl chloride	16		1.0	ug/L	20.0		79	10-251			
1,2-Dichloroethane-d4	*46*			*ug/L*	*50.0*		*92*	*57-131*			
4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*51-122*			
Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*68-117*			
Toluene-d8	*49*			*ug/L*	*50.0*		*97*	*67-127*			

Matrix Spike (4C04026-MS1) Prepared: 03/04/2014 12:30 Analyzed: 03/05/2014 04:38

Source: C402333-10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	15		1.0	ug/L	20.0	1.0 U	75	52-162			
1,1,2,2-Tetrachloroethane	18		1.0	ug/L	20.0	1.0 U	91	46-157			
1,1,2-Trichloroethane	18		1.0	ug/L	20.0	1.0 U	90	52-150			
1,1-Dichloroethane	17		1.0	ug/L	20.0	1.0 U	86	59-155			
1,1-Dichloroethene	15		1.0	ug/L	20.0	1.0 U	77	10-234			
1,2-Dichlorobenzene	16		1.0	ug/L	20.0	1.0 U	79	18-190			
1,2-Dichloroethane	18		1.0	ug/L	20.0	1.0 U	90	49-155			
1,2-Dichloropropane	17		1.0	ug/L	20.0	1.0 U	83	10-210			
1,3-Dichlorobenzene	15		1.0	ug/L	20.0	1.0 U	73	59-156			
1,4-Dichlorobenzene	13		1.0	ug/L	20.0	1.0 U	64	18-190			
2-Chloroethyl Vinyl Ether	32		5.0	ug/L	40.0	5.0 U	80	10-305			
Acrolein	29		10	ug/L	40.0	10 U	72	10-200			
Acrylonitrile	55		10	ug/L	60.0	10 U	92	10-200			
Benzene	16		1.0	ug/L	20.0	1.0 U	78	37-151			
Bromodichloromethane	18		1.0	ug/L	20.0	1.0 U	91	35-155			
Bromoform	16		1.0	ug/L	20.0	1.0 U	79	45-169			

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4C04026 - EPA 5030B_MS - Continued

Matrix Spike (4C04026-MS1) Continued Prepared: 03/04/2014 12:30 Analyzed: 03/05/2014 04:38

Source: C402333-10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bromomethane	22		1.0	ug/L	20.0	1.0 U	108	10-242			
Carbon tetrachloride	13		1.0	ug/L	20.0	1.0 U	65	70-140			QM-07
Chlorobenzene	16		1.0	ug/L	20.0	1.0 U	78	37-160			
Chloroethane	24		1.0	ug/L	20.0	1.0 U	119	14-230			
Chloroform	16		1.0	ug/L	20.0	1.0 U	81	51-138			
Chloromethane	19		1.0	ug/L	20.0	1.0 U	97	10-273			
cis-1,3-Dichloropropene	15		1.0	ug/L	20.0	1.0 U	76	10-227			
Dibromochloromethane	18		1.0	ug/L	20.0	1.0 U	88	53-149			
Ethylbenzene	13		1.0	ug/L	20.0	1.0 U	64	37-162			
Methylene chloride	17		1.0	ug/L	20.0	1.0 U	86	10-221			
Tetrachloroethene	13		1.0	ug/L	20.0	1.0 U	65	64-148			
Toluene	14		1.0	ug/L	20.0	1.0 U	70	47-150			
trans-1,2-Dichloroethene	15		1.0	ug/L	20.0	1.0 U	76	54-156			
trans-1,3-Dichloropropene	17		1.0	ug/L	20.0	1.0 U	87	17-183			
Trichloroethene	15		1.0	ug/L	20.0	1.0 U	73	71-157			
Trichlorofluoromethane	15		1.0	ug/L	20.0	1.0 U	73	17-181			
Vinyl chloride	14		1.0	ug/L	20.0	1.0 U	70	10-251			
1,2-Dichloroethane-d4	*47*			*ug/L*	*50.0*		*93*	*57-131*			
4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*98*	*51-122*			
Dibromofluoromethane	*45*			*ug/L*	*50.0*		*91*	*68-117*			
Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*67-127*			

Matrix Spike Dup (4C04026-MSD1) Prepared: 03/04/2014 12:30 Analyzed: 03/05/2014 05:07

Source: C402333-10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	14		1.0	ug/L	20.0	1.0 U	70	52-162	6	25	
1,1,2,2-Tetrachloroethane	18		1.0	ug/L	20.0	1.0 U	90	46-157	2	25	
1,1,2-Trichloroethane	18		1.0	ug/L	20.0	1.0 U	90	52-150	0.2	25	
1,1-Dichloroethane	17		1.0	ug/L	20.0	1.0 U	83	59-155	4	25	
1,1-Dichloroethene	15		1.0	ug/L	20.0	1.0 U	74	10-234	5	25	
1,2-Dichlorobenzene	15		1.0	ug/L	20.0	1.0 U	75	18-190	5	25	
1,2-Dichloroethane	18		1.0	ug/L	20.0	1.0 U	92	49-155	2	25	
1,2-Dichloropropane	16		1.0	ug/L	20.0	1.0 U	82	10-210	1	25	
1,3-Dichlorobenzene	14		1.0	ug/L	20.0	1.0 U	68	59-156	7	25	
1,4-Dichlorobenzene	13		1.0	ug/L	20.0	1.0 U	65	18-190	2	25	
2-Chloroethyl Vinyl Ether	34		5.0	ug/L	40.0	5.0 U	84	10-305	4	25.9	
Acrolein	31		10	ug/L	40.0	10 U	77	10-200	7	36	
Acrylonitrile	62		10	ug/L	60.0	10 U	103	10-200	11	50	
Benzene	15		1.0	ug/L	20.0	1.0 U	73	37-151	6	25	
Bromodichloromethane	17		1.0	ug/L	20.0	1.0 U	87	35-155	4	25	
Bromoform	18		1.0	ug/L	20.0	1.0 U	89	45-169	11	25	
Bromomethane	19		1.0	ug/L	20.0	1.0 U	97	10-242	11	25	
Carbon tetrachloride	13		1.0	ug/L	20.0	1.0 U	63	70-140	3	25	QM-07
Chlorobenzene	15		1.0	ug/L	20.0	1.0 U	76	37-160	3	25	
Chloroethane	22		1.0	ug/L	20.0	1.0 U	112	14-230	6	25	
Chloroform	16		1.0	ug/L	20.0	1.0 U	80	51-138	0.8	25	
Chloromethane	18		1.0	ug/L	20.0	1.0 U	92	10-273	5	25	
cis-1,3-Dichloropropene	15		1.0	ug/L	20.0	1.0 U	77	10-227	1	25	
Dibromochloromethane	18		1.0	ug/L	20.0	1.0 U	88	53-149	0.2	25	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 4C04026 - EPA 5030B_MS - Continued

Matrix Spike Dup (4C04026-MSD1) Continued Prepared: 03/04/2014 12:30 Analyzed: 03/05/2014 05:07

Source: C402333-10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ethylbenzene	13		1.0	ug/L	20.0	1.0 U	63	37-162	2	25	
Methylene chloride	17		1.0	ug/L	20.0	1.0 U	85	10-221	2	25	
Tetrachloroethene	13		1.0	ug/L	20.0	1.0 U	66	64-148	0.4	25	
Toluene	14		1.0	ug/L	20.0	1.0 U	68	47-150	4	25	
trans-1,2-Dichloroethene	14		1.0	ug/L	20.0	1.0 U	71	54-156	6	25	
trans-1,3-Dichloropropene	18		1.0	ug/L	20.0	1.0 U	91	17-183	4	25	
Trichloroethene	13		1.0	ug/L	20.0	1.0 U	67	71-157	9	25	QM-07
Trichlorofluoromethane	13		1.0	ug/L	20.0	1.0 U	66	17-181	10	25	
Vinyl chloride	13		1.0	ug/L	20.0	1.0 U	65	10-251	8	25	
1,2-Dichloroethane-d4	*48*			*ug/L*	*50.0*		*96*	*57-131*			
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*51-122*			
Dibromofluoromethane	*46*			*ug/L*	*50.0*		*92*	*68-117*			
Toluene-d8	*48*			*ug/L*	*50.0*		*97*	*67-127*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4C05001 - EPA 3510C_MS

Blank (4C05001-BLK1) Prepared: 03/05/2014 06:30 Analyzed: 03/05/2014 11:53

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	10	U	10	ug/L							
1,2-Dichlorobenzene	10	U	10	ug/L							
1,3-Dichlorobenzene	10	U	10	ug/L							
1,4-Dichlorobenzene	10	U	10	ug/L							
2,4,6-Trichlorophenol	10	U	10	ug/L							
2,4-Dichlorophenol	10	U	10	ug/L							
2,4-Dimethylphenol	10	U	10	ug/L							
2,4-Dinitrophenol	10	U	10	ug/L							
2,4-Dinitrotoluene	10	U	10	ug/L							
2,6-Dinitrotoluene	10	U	10	ug/L							
2-Chloronaphthalene	10	U	10	ug/L							
2-Chlorophenol	10	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	10	U	10	ug/L							
2-Nitrophenol	10	U	10	ug/L							
3,3'-Dichlorobenzidine	10	U	10	ug/L							
4-Bromophenyl-phenylether	10	U	10	ug/L							
4-Chloro-3-methylphenol	10	U	10	ug/L							
4-Chlorophenyl-phenylether	10	U	10	ug/L							
4-Nitrophenol	10	U	10	ug/L							
Acenaphthene	10	U	10	ug/L							
Acenaphthylene	10	U	10	ug/L							
Anthracene	10	U	10	ug/L							
Benzidine	10	U	10	ug/L							
Benzo(a)anthracene	10	U	10	ug/L							
Benzo(a)pyrene	10	U	10	ug/L							
Benzo(b)fluoranthene	10	U	10	ug/L							
Benzo(g,h,i)perylene	10	U	10	ug/L							
Benzo(k)fluoranthene	10	U	10	ug/L							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4C05001 - EPA 3510C_MS - Continued

Blank (4C05001-BLK1) Continued Prepared: 03/05/2014 06:30 Analyzed: 03/05/2014 11:53

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-chloroethoxy)methane	10	U	10	ug/L							
Bis(2-chloroethyl)ether	10	U	10	ug/L							
Bis(2-chloroisopropyl)ether	10	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	5.0	U	5.0	ug/L							
Butylbenzylphthalate	10	U	10	ug/L							
Chrysene	10	U	10	ug/L							
Dibenzo(a,h)anthracene	10	U	10	ug/L							
Diethylphthalate	10	U	10	ug/L							
Dimethylphthalate	10	U	10	ug/L							
Di-n-butylphthalate	10	U	10	ug/L							
Di-n-octylphthalate	10	U	10	ug/L							
Fluoranthene	10	U	10	ug/L							
Fluorene	10	U	10	ug/L							
Hexachlorobenzene	10	U	10	ug/L							
Hexachlorobutadiene	10	U	10	ug/L							
Hexachlorocyclopentadiene	10	U	10	ug/L							
Hexachloroethane	10	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	10	U	10	ug/L							
Isophorone	10	U	10	ug/L							
Naphthalene	10	U	10	ug/L							
Nitrobenzene	10	U	10	ug/L							
N-Nitrosodimethylamine	10	U	10	ug/L							
N-Nitroso-di-n-propylamine	10	U	10	ug/L							
N-Nitrosodiphenylamine/Diphenylamine	10	U	10	ug/L							
Pentachlorophenol	10	U	10	ug/L							
Phenanthrene	10	U	10	ug/L							
Phenol	10	U	10	ug/L							
Pyrene	10	U	10	ug/L							
2,4,6-Tribromophenol	*61*			*ug/L*	*100*		*61*	*18-157*			
2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*81*	*15-139*			
2-Fluorophenol	*54*			*ug/L*	*100*		*54*	*10-104*			
Nitrobenzene-d5	*41*			*ug/L*	*50.0*		*81*	*16-140*			
Phenol-d5	*47*			*ug/L*	*100*		*47*	*10-83*			
Terphenyl-d14	*38*			*ug/L*	*50.0*		*75*	*23-164*			

LCS (4C05001-BS1) Prepared: 03/05/2014 06:30 Analyzed: 03/05/2014 12:23

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	32		10	ug/L	50.0		63	44-142			
1,2-Dichlorobenzene	31		10	ug/L	50.0		62	32-129			
1,3-Dichlorobenzene	29		10	ug/L	50.0		58	10-172			
1,4-Dichlorobenzene	30		10	ug/L	50.0		60	20-124			
2,4,6-Trichlorophenol	35		10	ug/L	50.0		70	61-119			
2,4-Dichlorophenol	39		10	ug/L	50.0		78	49-118			
2,4-Dimethylphenol	40		10	ug/L	50.0		79	42-111			
2,4-Dinitrophenol	29		10	ug/L	50.0		58	1-149			
2,4-Dinitrotoluene	37		10	ug/L	50.0		74	39-139			
2,6-Dinitrotoluene	38		10	ug/L	50.0		76	50-158			
2-Chloronaphthalene	38		10	ug/L	50.0		75	60-118			

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4C05001 - EPA 3510C_MS - Continued

LCS (4C05001-BS1) Continued Prepared: 03/05/2014 06:30 Analyzed: 03/05/2014 12:23

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	37		10	ug/L	50.0		73	23-134			
2-Methyl-4,6-dinitrophenol	33		10	ug/L	50.0		65	33-160			
2-Nitrophenol	39		10	ug/L	50.0		77	36-113			
3,3'-Dichlorobenzidine	40		10	ug/L	50.0		79	10-262			
4-Bromophenyl-phenylether	40		10	ug/L	50.0		80	53-127			
4-Chloro-3-methylphenol	38		10	ug/L	50.0		77	25-147			
4-Chlorophenyl-phenylether	38		10	ug/L	50.0		76	25-158			
4-Nitrophenol	24		10	ug/L	50.0		49	33-105			
Acenaphthene	40		10	ug/L	50.0		79	47-145			
Acenaphthylene	40		10	ug/L	50.0		79	33-145			
Anthracene	40		10	ug/L	50.0		80	27-133			
Benzidine	12		10	ug/L	50.0		23	10-136			
Benzo(a)anthracene	41		10	ug/L	50.0		81	33-143			
Benzo(a)pyrene	39		10	ug/L	50.0		79	17-163			
Benzo(b)fluoranthene	38		10	ug/L	50.0		76	24-159			
Benzo(g,h,i)perylene	34		10	ug/L	50.0		68	10-219			
Benzo(k)fluoranthene	43		10	ug/L	50.0		86	11-162			
Bis(2-chloroethoxy)methane	42		10	ug/L	50.0		84	33-184			
Bis(2-chloroethyl)ether	41		10	ug/L	50.0		81	12-158			
Bis(2-chloroisopropyl)ether	37		10	ug/L	50.0		75	36-166			
Bis(2-ethylhexyl)phthalate	48		5.0	ug/L	50.0		95	10-158			
Butylbenzylphthalate	36		10	ug/L	50.0		71	64-152			
Chrysene	42		10	ug/L	50.0		84	17-168			
Dibenzo(a,h)anthracene	36		10	ug/L	50.0		72	10-227			
Diethylphthalate	38		10	ug/L	50.0		77	62-127			
Dimethylphthalate	37		10	ug/L	50.0		75	10-114			
Di-n-butylphthalate	45		10	ug/L	50.0		90	10-118			
Di-n-octylphthalate	46		10	ug/L	50.0		91	10-146			
Fluoranthene	38		10	ug/L	50.0		76	26-137			
Fluorene	39		10	ug/L	50.0		78	59-121			
Hexachlorobenzene	39		10	ug/L	50.0		77	10-152			
Hexachlorobutadiene	30		10	ug/L	50.0		60	24-116			
Hexachlorocyclopentadiene	29		10	ug/L	50.0		59	10-99			
Hexachloroethane	29		10	ug/L	50.0		59	12-82			
Indeno(1,2,3-cd)pyrene	36		10	ug/L	50.0		72	10-171			
Isophorone	41		10	ug/L	50.0		82	21-196			
Naphthalene	36		10	ug/L	50.0		72	21-133			
Nitrobenzene	39		10	ug/L	50.0		78	35-180			
N-Nitrosodimethylamine	33		10	ug/L	50.0		67	24-94			
N-Nitroso-di-n-propylamine	43		10	ug/L	50.0		87	10-230			
Pentachlorophenol	33		10	ug/L	50.0		66	51-135			
Phenanthrene	42		10	ug/L	50.0		83	54-120			
Phenol	26		10	ug/L	50.0		52	19-78			
Pyrene	35		10	ug/L	50.0		69	65-134			
2,4,6-Tribromophenol	*69*			*ug/L*	*100*		*69*	*18-157*			
2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*75*	*15-139*			
2-Fluorophenol	*54*			*ug/L*	*100*		*54*	*10-104*			
Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*77*	*16-140*			
Phenol-d5	*47*			*ug/L*	*100*		*47*	*10-83*			

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4C05001 - EPA 3510C_MS - Continued

LCS (4C05001-BS1) Continued Prepared: 03/05/2014 06:30 Analyzed: 03/05/2014 12:23

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Terphenyl-d14	*35*			*ug/L*	*50.0*		*71*	*23-164*			

Matrix Spike (4C05001-MS1) Prepared: 03/05/2014 06:30 Analyzed: 03/05/2014 12:53

Source: C402333-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	35		10	ug/L	50.0	10 U	71	44-142			
1,2-Dichlorobenzene	33		10	ug/L	50.0	10 U	65	32-129			
1,3-Dichlorobenzene	33		10	ug/L	50.0	10 U	66	10-172			
1,4-Dichlorobenzene	33		10	ug/L	50.0	10 U	66	20-124			
2,4,6-Trichlorophenol	38		10	ug/L	50.0	10 U	77	61-119			
2,4-Dichlorophenol	41		10	ug/L	50.0	10 U	83	49-118			
2,4-Dimethylphenol	40		10	ug/L	50.0	10 U	80	42-111			
2,4-Dinitrophenol	35		10	ug/L	50.0	10 U	71	11-149			
2,4-Dinitrotoluene	41		10	ug/L	50.0	10 U	81	39-139			
2,6-Dinitrotoluene	43		10	ug/L	50.0	10 U	85	50-158			
2-Chloronaphthalene	40		10	ug/L	50.0	10 U	80	60-118			
2-Chlorophenol	41		10	ug/L	50.0	10 U	82	23-134			
2-Methyl-4,6-dinitrophenol	39		10	ug/L	50.0	10 U	78	33-160			
2-Nitrophenol	41		10	ug/L	50.0	10 U	82	36-113			
3,3'-Dichlorobenzidine	39		10	ug/L	50.0	10 U	77	10-262			
4-Bromophenyl-phenylether	42		10	ug/L	50.0	10 U	84	53-127			
4-Chloro-3-methylphenol	40		10	ug/L	50.0	10 U	81	25-147			
4-Chlorophenyl-phenylether	41		10	ug/L	50.0	10 U	81	25-158			
4-Nitrophenol	27		10	ug/L	50.0	10 U	54	33-105			
Acenaphthene	40		10	ug/L	50.0	10 U	81	47-145			
Acenaphthylene	41		10	ug/L	50.0	10 U	82	33-145			
Anthracene	41		10	ug/L	50.0	10 U	82	27-133			
Benzidine	14		10	ug/L	50.0	10 U	29	10-136			
Benzo(a)anthracene	40		10	ug/L	50.0	10 U	81	33-143			
Benzo(a)pyrene	39		10	ug/L	50.0	10 U	77	17-163			
Benzo(b)fluoranthene	34		10	ug/L	50.0	10 U	69	24-159			
Benzo(g,h,i)perylene	35		10	ug/L	50.0	10 U	70	10-219			
Benzo(k)fluoranthene	37		10	ug/L	50.0	10 U	73	11-162			
Bis(2-chloroethoxy)methane	42		10	ug/L	50.0	10 U	85	33-184			
Bis(2-chloroethyl)ether	45		10	ug/L	50.0	10 U	89	12-158			
Bis(2-chloroisopropyl)ether	40		10	ug/L	50.0	10 U	79	36-166			
Bis(2-ethylhexyl)phthalate	46		5.0	ug/L	50.0	5.0 U	92	10-158			
Butylbenzylphthalate	38		10	ug/L	50.0	10 U	76	10-152			
Chrysene	41		10	ug/L	50.0	10 U	81	17-168			
Dibenzo(a,h)anthracene	36		10	ug/L	50.0	10 U	72	10-227			
Diethylphthalate	42		10	ug/L	50.0	10 U	84	62-127			
Dimethylphthalate	41		10	ug/L	50.0	10 U	82	10-114			
Di-n-butylphthalate	45		10	ug/L	50.0	10 U	90	10-118			
Di-n-octylphthalate	44		10	ug/L	50.0	10 U	89	10-146			
Fluoranthene	39		10	ug/L	50.0	10 U	77	26-137			
Fluorene	40		10	ug/L	50.0	10 U	80	59-121			
Hexachlorobenzene	42		10	ug/L	50.0	10 U	84	10-152			
Hexachlorobutadiene	33		10	ug/L	50.0	10 U	66	24-116			
Hexachlorocyclopentadiene	33		10	ug/L	50.0	10 U	67	10-99			

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4C05001 - EPA 3510C_MS - Continued

Matrix Spike (4C05001-MS1) Continued Prepared: 03/05/2014 06:30 Analyzed: 03/05/2014 12:53

Source: C402333-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Hexachloroethane	31		10	ug/L	50.0	10 U	61	12-82			
Indeno(1,2,3-cd)pyrene	36		10	ug/L	50.0	10 U	71	10-171			
Isophorone	42		10	ug/L	50.0	10 U	84	21-196			
Naphthalene	37		10	ug/L	50.0	10 U	74	21-133			
Nitrobenzene	40		10	ug/L	50.0	10 U	81	35-180			
N-Nitrosodimethylamine	35		10	ug/L	50.0	10 U	70	24-94			
N-Nitroso-di-n-propylamine	42		10	ug/L	50.0	10 U	84	10-230			
Pentachlorophenol	37		10	ug/L	50.0	10 U	73	51-135			
Phenanthrene	42		10	ug/L	50.0	10 U	83	54-120			
Phenol	27		10	ug/L	50.0	10 U	54	19-78			
Pyrene	38		10	ug/L	50.0	10 U	75	52-115			
2,4,6-Tribromophenol	*77*			*ug/L*	*100*		*77*	*18-157*			
2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*79*	*15-139*			
2-Fluorophenol	*55*			*ug/L*	*100*		*55*	*10-104*			
Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*79*	*16-140*			
Phenol-d5	*48*			*ug/L*	*100*		*48*	*10-83*			
Terphenyl-d14	*37*			*ug/L*	*50.0*		*74*	*23-164*			

Matrix Spike Dup (4C05001-MSD1) Prepared: 03/05/2014 06:30 Analyzed: 03/05/2014 13:24

Source: C402333-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2,4-Trichlorobenzene	32		10	ug/L	50.0	10 U	63	44-142	11	28.1	
1,2-Dichlorobenzene	32		10	ug/L	50.0	10 U	65	32-129	0.6	30.9	
1,3-Dichlorobenzene	31		10	ug/L	50.0	10 U	62	10-172	6	41.7	
1,4-Dichlorobenzene	33		10	ug/L	50.0	10 U	66	20-124	0.09	32.1	
2,4,6-Trichlorophenol	35		10	ug/L	50.0	10 U	69	61-119	10	25	
2,4-Dichlorophenol	39		10	ug/L	50.0	10 U	78	49-118	6	25	
2,4-Dimethylphenol	40		10	ug/L	50.0	10 U	80	42-111	0.6	26	
2,4-Dinitrophenol	30		10	ug/L	50.0	10 U	59	11-149	18	50	
2,4-Dinitrotoluene	36		10	ug/L	50.0	10 U	72	39-139	12	25	
2,6-Dinitrotoluene	36		10	ug/L	50.0	10 U	72	50-158	16	29.6	
2-Chloronaphthalene	41		10	ug/L	50.0	10 U	81	60-118	1	25	
2-Chlorophenol	38		10	ug/L	50.0	10 U	76	23-134	8	28.7	
2-Methyl-4,6-dinitrophenol	29		10	ug/L	50.0	10 U	58	33-160	29	25	QM-11
2-Nitrophenol	37		10	ug/L	50.0	10 U	74	36-113	10	50	
3,3'-Dichlorobenzidine	45		10	ug/L	50.0	10 U	90	10-262	15	71.4	
4-Bromophenyl-phenylether	42		10	ug/L	50.0	10 U	84	53-127	0.5	25	
4-Chloro-3-methylphenol	39		10	ug/L	50.0	10 U	79	25-147	3	37.2	
4-Chlorophenyl-phenylether	44		10	ug/L	50.0	10 U	87	25-158	7	33.4	
4-Nitrophenol	26		10	ug/L	50.0	10 U	52	33-105	4	27	
Acenaphthene	43		10	ug/L	50.0	10 U	87	47-145	7	27.6	
Acenaphthylene	43		10	ug/L	50.0	10 U	85	33-145	4	40.2	
Anthracene	47		10	ug/L	50.0	10 U	93	27-133	13	32	
Benzidine	7.8	U	10	ug/L	50.0	10 U	16	10-136	59	50	QM-11
Benzo(a)anthracene	42		10	ug/L	50.0	10 U	83	33-143	3	27.6	
Benzo(a)pyrene	41		10	ug/L	50.0	10 U	83	17-163	7	39	
Benzo(b)fluoranthene	31		10	ug/L	50.0	10 U	63	24-159	10	38.8	
Benzo(g,h,i)perylene	41		10	ug/L	50.0	10 U	82	10-219	16	58.9	
Benzo(k)fluoranthene	36		10	ug/L	50.0	10 U	72	11-162	2	32.3	

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 4C05001 - EPA 3510C_MS - Continued

Matrix Spike Dup (4C05001-MSD1) Continued Prepared: 03/05/2014 06:30 Analyzed: 03/05/2014 13:24

Source: C402333-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-chloroethoxy)methane	44		10	ug/L	50.0	10 U	87	33-184	3	34.5	
Bis(2-chloroethyl)ether	43		10	ug/L	50.0	10 U	86	12-158	4	55	
Bis(2-chloroisopropyl)ether	39		10	ug/L	50.0	10 U	78	36-166	2	46.3	
Bis(2-ethylhexyl)phthalate	54		5.0	ug/L	50.0	5.0 U	109	10-158	16	41.1	
Butylbenzylphthalate	43		10	ug/L	50.0	10 U	86	10-152	12	25	
Chrysene	42		10	ug/L	50.0	10 U	85	17-168	5	48.3	
Dibenzo(a,h)anthracene	42		10	ug/L	50.0	10 U	84	10-227	16	70	
Diethylphthalate	41		10	ug/L	50.0	10 U	81	62-127	3	11	
Dimethylphthalate	38		10	ug/L	50.0	10 U	76	10-114	8	26.5	
Di-n-butylphthalate	52		10	ug/L	50.0	10 U	104	10-118	15	25	
Di-n-octylphthalate	46		10	ug/L	50.0	10 U	92	10-146	3	31.4	
Fluoranthene	43		10	ug/L	50.0	10 U	87	26-137	11	32.8	
Fluorene	45		10	ug/L	50.0	10 U	90	59-121	12	25	
Hexachlorobenzene	40		10	ug/L	50.0	10 U	81	10-152	4	25	
Hexachlorobutadiene	30		10	ug/L	50.0	10 U	59	24-116	11	26.3	
Hexachlorocyclopentadiene	29		10	ug/L	50.0	10 U	57	10-99	15	50	
Hexachloroethane	31		10	ug/L	50.0	10 U	61	12-82	0.1	50	
Indeno(1,2,3-cd)pyrene	42		10	ug/L	50.0	10 U	84	10-171	17	44.6	
Isophorone	43		10	ug/L	50.0	10 U	86	21-196	3	63.3	
Naphthalene	40		10	ug/L	50.0	10 U	79	21-133	7	30.1	
Nitrobenzene	41		10	ug/L	50.0	10 U	82	35-180	2	39.3	
N-Nitrosodimethylamine	41		10	ug/L	50.0	10 U	81	24-94	15	36	
N-Nitroso-di-n-propylamine	46		10	ug/L	50.0	10 U	93	10-230	11	55.4	
Pentachlorophenol	28		10	ug/L	50.0	10 U	56	51-135	26	25	QM-11
Phenanthrene	48		10	ug/L	50.0	10 U	96	54-120	14	25	
Phenol	26		10	ug/L	50.0	10 U	53	19-78	3	25	
Pyrene	43		10	ug/L	50.0	10 U	85	52-115	13	25	
2,4,6-Tribromophenol	*69*			*ug/L*	*100*		*69*	*18-157*			
2-Fluorobiphenyl	*40*			*ug/L*	*50.0*		*81*	*15-139*			
2-Fluorophenol	*56*			*ug/L*	*100*		*56*	*10-104*			
Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*78*	*16-140*			
Phenol-d5	*47*			*ug/L*	*100*		*47*	*10-83*			
Terphenyl-d14	*41*			*ug/L*	*50.0*		*83*	*23-164*			

Semivolatile Organic Compounds by GC - Quality Control

Batch 4C03002 - EPA 3510C

Blank (4C03002-BLK1) Prepared: 03/03/2014 06:34 Analyzed: 03/05/2014 14:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDD	0.04	U	0.05	ug/L							
4,4'-DDE	0.05	U	0.05	ug/L							
4,4'-DDT	0.05	U	0.05	ug/L							
Aldrin	0.04	U	0.05	ug/L							
alpha-BHC	0.04	U	0.05	ug/L							
beta-BHC	0.04	U	0.05	ug/L							
Chlordane (tech)	0.20	U	0.50	ug/L							
Chlordane-alpha	0.05	U	0.05	ug/L							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GC - Quality Control

Batch 4C03002 - EPA 3510C - Continued

Blank (4C03002-BLK1) Continued Prepared: 03/03/2014 06:34 Analyzed: 03/05/2014 14:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlordane-gamma	0.04	U	0.05	ug/L							
delta-BHC	0.05	U	0.05	ug/L							
Dieldrin	0.04	U	0.05	ug/L							
Endosulfan I	0.04	U	0.05	ug/L							
Endosulfan II	0.04	U	0.05	ug/L							
Endosulfan sulfate	0.03	U	0.05	ug/L							
Endrin	0.04	U	0.05	ug/L							
Endrin aldehyde	0.04	U	0.05	ug/L							
Endrin ketone	0.04	U	0.05	ug/L							
gamma-BHC	0.03	U	0.05	ug/L							
Heptachlor	0.03	U	0.05	ug/L							
Heptachlor epoxide	0.04	U	0.05	ug/L							
Methoxychlor	0.02	U	0.05	ug/L							
Toxaphene	0.22	U	1.0	ug/L							
2,4,5,6-TCMX	*0.85*			*ug/L*	*1.00*		*85*	*44-134*			
Decachlorobiphenyl	*0.89*			*ug/L*	*1.00*		*89*	*37-149*			

LCS (4C03002-BS1) Prepared: 03/03/2014 06:34 Analyzed: 03/05/2014 14:21

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.77		0.05	ug/L	1.00		77	37-160			
Aldrin	0.89		0.05	ug/L	1.00		89	42-122			
Dieldrin	0.88		0.05	ug/L	1.00		88	36-146			
Endrin	0.83		0.05	ug/L	1.00		83	30-147			
gamma-BHC	0.85		0.05	ug/L	1.00		85	19-140			
Heptachlor	0.76		0.05	ug/L	1.00		76	45-122			
2,4,5,6-TCMX	*0.81*			*ug/L*	*1.00*		*81*	*44-134*			
Decachlorobiphenyl	*0.90*			*ug/L*	*1.00*		*90*	*37-149*			

Matrix Spike (4C03002-MS1) Prepared: 03/03/2014 06:34 Analyzed: 03/05/2014 14:34

Source: C402145-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.84		0.05	ug/L	1.00	0.05 U	84	35-160			
Aldrin	0.92		0.05	ug/L	1.00	0.04 U	92	42-122			
Dieldrin	0.95		0.05	ug/L	1.00	0.04 U	95	36-146			
Endrin	0.92		0.05	ug/L	1.00	0.04 U	92	30-147			
gamma-BHC	0.92		0.05	ug/L	1.00	0.03 U	92	19-140			
Heptachlor	0.82		0.05	ug/L	1.00	0.03 U	82	45-122			
2,4,5,6-TCMX	*0.79*			*ug/L*	*1.00*		*79*	*44-134*			
Decachlorobiphenyl	*0.93*			*ug/L*	*1.00*		*93*	*37-149*			

Matrix Spike Dup (4C03002-MSD1) Prepared: 03/03/2014 06:34 Analyzed: 03/05/2014 14:47

Source: C402145-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4,4'-DDT	0.77		0.05	ug/L	1.00	0.05 U	77	35-160	8	25	
Aldrin	0.89		0.05	ug/L	1.00	0.04 U	89	42-122	4	25	
Dieldrin	0.88		0.05	ug/L	1.00	0.04 U	88	36-146	7	25	

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GC - Quality Control

Batch 4C03002 - EPA 3510C - Continued

Matrix Spike Dup (4C03002-MSD1) Continued Prepared: 03/03/2014 06:34 Analyzed: 03/05/2014 14:47

Source: C402145-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Endrin	0.83		0.05	ug/L	1.00	0.04 U	83	30-147	9	25	
gamma-BHC	0.86		0.05	ug/L	1.00	0.03 U	86	19-140	8	25	
Heptachlor	0.78		0.05	ug/L	1.00	0.03 U	78	45-122	6	32	
2,4,5,6-TCMX	*0.76*			*ug/L*	*1.00*		*76*	*44-134*			
Decachlorobiphenyl	*0.87*			*ug/L*	*1.00*		*87*	*37-149*			

Batch 4C03003 - EPA 3510C

Blank (4C03003-BLK1) Prepared: 03/03/2014 07:05 Analyzed: 03/05/2014 14:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1016	0.19	U	0.50	ug/L							
PCB-1221	0.37	U	0.50	ug/L							
PCB-1232	0.45	U	0.50	ug/L							
PCB-1242	0.46	U	0.50	ug/L							
PCB-1248	0.01	U	0.50	ug/L							
PCB-1254	0.37	U	0.50	ug/L							
PCB-1260	0.45	U	0.50	ug/L							
2,4,5,6-TCMX	*0.78*			*ug/L*	*1.00*		*78*	*45-151*			
Decachlorobiphenyl	*0.89*			*ug/L*	*1.00*		*89*	*42-159*			

LCS (4C03003-BS1) Prepared: 03/03/2014 07:05 Analyzed: 03/05/2014 15:01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1260	11		0.50	ug/L	10.0		106	8-127			
2,4,5,6-TCMX	*0.99*			*ug/L*	*1.00*		*99*	*45-151*			
Decachlorobiphenyl	*0.98*			*ug/L*	*1.00*		*98*	*42-159*			

Matrix Spike (4C03003-MS1) Prepared: 03/03/2014 07:05 Analyzed: 03/05/2014 15:14

Source: C402145-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1260	9.3		0.50	ug/L	10.0	0.45 U	93	8-127			
2,4,5,6-TCMX	*0.90*			*ug/L*	*1.00*		*90*	*45-151*			
Decachlorobiphenyl	*0.91*			*ug/L*	*1.00*		*91*	*42-159*			

Matrix Spike Dup (4C03003-MSD1) Prepared: 03/03/2014 07:05 Analyzed: 03/05/2014 15:27

Source: C402145-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
PCB-1260	9.4		0.50	ug/L	10.0	0.45 U	94	8-127	0.2	25	
2,4,5,6-TCMX	*0.92*			*ug/L*	*1.00*		*92*	*45-151*			
Decachlorobiphenyl	*0.91*			*ug/L*	*1.00*		*91*	*42-159*			

Metals by EPA 200 Series Methods - Quality Control

Batch 4B28011 - EPA 3005A

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QUALITY CONTROL DATA

Metals by EPA 200 Series Methods - Quality Control

Batch 4B28011 - EPA 3005A - Continued

Blank (4B28011-BLK1) Prepared: 02/28/2014 09:51 Analyzed: 03/03/2014 12:01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	5.4	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.4	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	2.1	U	10.0	ug/L							
Nickel	1.8	U	10.0	ug/L							
Selenium	5.0	U	10.0	ug/L							
Silver	1.9	U	10.0	ug/L							
Tin	2.1	U	10.0	ug/L							
Zinc	3.8	U	10.0	ug/L							

LCS (4B28011-BS1) Prepared: 02/28/2014 09:51 Analyzed: 03/03/2014 12:05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	202		10.0	ug/L	200		101	85-115			
Barium	204		10.0	ug/L	200		102	85-115			
Cadmium	20.2		1.00	ug/L	20.0		101	85-115			
Chromium	202		10.0	ug/L	200		101	85-115			
Copper	200		10.0	ug/L	200		100	85-115			
Lead	201		10.0	ug/L	200		101	85-115			
Nickel	203		10.0	ug/L	200		102	85-115			
Selenium	201		10.0	ug/L	200		101	85-115			
Silver	208		10.0	ug/L	200		104	85-115			
Tin	199		10.0	ug/L	200		100	85-115			
Zinc	202		10.0	ug/L	200		101	85-115			

Matrix Spike (4B28011-MS1) Prepared: 02/28/2014 09:51 Analyzed: 03/03/2014 12:15

Source: C310413-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	218		10.0	ug/L	200	5.4 U	109	70-130			
Barium	260		10.0	ug/L	200	39.5	110	70-130			
Cadmium	21.7		1.00	ug/L	20.0	0.360 U	109	70-130			
Chromium	210		10.0	ug/L	200	1.4 U	105	70-130			
Copper	223		10.0	ug/L	200	12.3	105	70-130			
Lead	210		10.0	ug/L	200	2.1 U	105	70-130			
Nickel	221		10.0	ug/L	200	3.0	109	70-130			
Selenium	210		10.0	ug/L	200	5.0 U	105	70-130			
Silver	216		10.0	ug/L	200	1.9 U	108	70-130			
Tin	210		10.0	ug/L	200	2.1 U	105	70-130			
Zinc	244		10.0	ug/L	200	22.4	111	70-130			

Matrix Spike Dup (4B28011-MSD1) Prepared: 02/28/2014 09:51 Analyzed: 03/03/2014 12:17

Source: C310413-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	215		10.0	ug/L	200	5.4 U	108	70-130	1	30	
Barium	259		10.0	ug/L	200	39.5	110	70-130	0.5	30	
Cadmium	21.7		1.00	ug/L	20.0	0.360 U	109	70-130	0.01	30	

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QUALITY CONTROL DATA

Metals by EPA 200 Series Methods - Quality Control

Batch 4B28011 - EPA 3005A - Continued

Matrix Spike Dup (4B28011-MSD1) Continued Prepared: 02/28/2014 09:51 Analyzed: 03/03/2014 12:17

Source: C310413-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	211		10.0	ug/L	200	1.4 U	106	70-130	0.3	30	
Copper	223		10.0	ug/L	200	12.3	105	70-130	0.06	30	
Lead	211		10.0	ug/L	200	2.1 U	106	70-130	0.7	30	
Nickel	219		10.0	ug/L	200	3.0	108	70-130	0.7	30	
Selenium	210		10.0	ug/L	200	5.0 U	105	70-130	0.2	30	
Silver	217		10.0	ug/L	200	1.9 U	109	70-130	0.5	30	
Tin	210		10.0	ug/L	200	2.1 U	105	70-130	0.4	30	
Zinc	242		10.0	ug/L	200	22.4	110	70-130	0.8	30	

Post Spike (4B28011-PS1) Prepared: 02/28/2014 09:51 Analyzed: 03/03/2014 12:20

Source: C310413-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.2		0.01	mg/L	0.200	0.00004	101	80-120			
Barium	0.24		0.01	mg/L	0.200	0.04	102	80-120			
Cadmium	0.020		0.001	mg/L	0.0200	0.0001	101	80-120			
Chromium	0.2		0.01	mg/L	0.200	0.0005	100	80-120			
Copper	0.21		0.01	mg/L	0.200	0.01	100	80-120			
Lead	0.2		0.01	mg/L	0.200	0.001	98	80-120			
Nickel	0.2		0.01	mg/L	0.200	0.003	102	80-120			
Selenium	0.2		0.01	mg/L	0.200	-0.002	99	80-120			
Silver	0.2		0.01	mg/L	0.200	0.0004	102	80-120			
Tin	0.2		0.01	mg/L	0.200	-0.0004	98	80-120			
Zinc	0.2		0.01	mg/L	0.200	0.02	103	80-120			

Batch 4C03010 - EPA 3005A

Blank (4C03010-BLK1) Prepared: 03/03/2014 09:06 Analyzed: 03/04/2014 11:10

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	0.110	U	1.00	ug/L							
Vanadium	0.45	U	1.00	ug/L							

LCS (4C03010-BS1) Prepared: 03/03/2014 09:06 Analyzed: 03/04/2014 11:14

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	190		1.00	ug/L	200		95	85-115			
Vanadium	179		1.00	ug/L	200		90	85-115			

Matrix Spike (4C03010-MS1) Prepared: 03/03/2014 09:06 Analyzed: 03/04/2014 11:22

Source: C315410-02

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	196		1.00	ug/L	200	0.110 U	98	70-130			
Vanadium	194		1.00	ug/L	200	0.73	97	70-130			

Matrix Spike Dup (4C03010-MSD1) Prepared: 03/03/2014 09:06 Analyzed: 03/04/2014 11:26

Source: C315410-02

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	171		1.00	ug/L	200	0.110 U	85	70-130	14	30	

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QUALITY CONTROL DATA

Metals by EPA 200 Series Methods - Quality Control

Batch 4C03010 - EPA 3005A - Continued

Matrix Spike Dup (4C03010-MSD1) Continued Prepared: 03/03/2014 09:06 Analyzed: 03/04/2014 11:26

Source: C315410-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vanadium	168		1.00	ug/L	200	0.73	83	70-130	15	30	

Post Spike (4C03010-PS1) Prepared: 03/03/2014 09:06 Analyzed: 03/04/2014 11:30

Source: C315410-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thallium	0.201		0.001	mg/L	0.200	0.00003	100	75-125			
Vanadium	0.20		0.001	mg/L	0.200	0.0007	100	75-125			

Batch 4C04019 - EPA 245.1

Blank (4C04019-BLK1) Prepared: 03/04/2014 11:10 Analyzed: 03/05/2014 13:52

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (4C04019-BS1) Prepared: 03/04/2014 11:10 Analyzed: 03/05/2014 13:54

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.98		0.200	ug/L	5.00		100	85-115			

Matrix Spike (4C04019-MS1) Prepared: 03/04/2014 11:10 Analyzed: 03/05/2014 13:58

Source: C402298-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.37		0.200	ug/L	5.00	0.512	77	70-130			

Matrix Spike Dup (4C04019-MSD1) Prepared: 03/04/2014 11:10 Analyzed: 03/05/2014 14:00

Source: C402298-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.32		0.200	ug/L	5.00	0.512	76	70-130	1	30	

Post Spike (4C04019-PS1) Prepared: 03/04/2014 11:10 Analyzed: 03/05/2014 14:03

Source: C402298-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.36		0.200	ug/L	5.00	0.512	77	75-125			

Classical Chemistry Parameters - Quality Control

Batch 4B27015 - Same

Blank (4B27015-BLK1) Prepared: 02/27/2014 11:40 Analyzed: 02/27/2014 17:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	10	U	10	mg/L							

LCS (4B27015-BS1) Prepared: 02/27/2014 11:40 Analyzed: 02/27/2014 17:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	480		10	mg/L	500		97	90-110			

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 4B27015 - Same - Continued

Matrix Spike (4B27015-MS1) Prepared: 02/27/2014 11:40 Analyzed: 02/27/2014 17:07

Source: C402034-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520		10	mg/L	500	28	99	90-110			

Matrix Spike Dup (4B27015-MSD1) Prepared: 02/27/2014 11:40 Analyzed: 02/27/2014 17:07

Source: C402034-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520		10	mg/L	500	28	98	90-110	1	10	

Batch 4B27024 - NO PREP

Blank (4B27024-BLK1) Prepared: 02/27/2014 12:36 Analyzed: 02/27/2014 16:09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.10	U	0.10	mg/L							

LCS (4B27024-BS1) Prepared: 02/27/2014 12:36 Analyzed: 02/27/2014 16:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.96		0.10	mg/L	1.00		96	90-110			

Matrix Spike (4B27024-MS1) Prepared: 02/27/2014 12:36 Analyzed: 02/27/2014 16:12

Source: C402034-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00	0.10 U	103	90-110			

Matrix Spike Dup (4B27024-MSD1) Prepared: 02/27/2014 12:36 Analyzed: 02/27/2014 16:13

Source: C402034-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00	0.10 U	102	90-110	1	10	

Batch 4B27031 - NO PREP

Blank (4B27031-BLK1) Prepared & Analyzed: 02/27/2014 15:46

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L							

LCS (4B27031-BS1) Prepared & Analyzed: 02/27/2014 15:46

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	150		2.0	mg/L	198		77	85-115			B-07

Duplicate (4B27031-DUP1) Prepared & Analyzed: 02/27/2014 15:46

Source: C401794-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2.0	U	2.0	mg/L		2.0 U				30	B-07

Batch 4B28001 - Same

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 4B28001 - Same - Continued

Blank (4B28001-BLK1) Prepared: 02/28/2014 07:55 Analyzed: 03/03/2014 10:57

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	0.10	U	0.10	mg/L							

LCS (4B28001-BS1) Prepared: 02/28/2014 07:55 Analyzed: 03/03/2014 10:59

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.6		0.10	mg/L	1.60		98	80-120			

Matrix Spike (4B28001-MS1) Prepared: 02/28/2014 07:55 Analyzed: 03/03/2014 11:02

Source: C400548-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	3.9	D	0.20	mg/L	0.640	3.2	96	80-120			

Matrix Spike Dup (4B28001-MSD1) Prepared: 02/28/2014 07:55 Analyzed: 03/03/2014 11:04

Source: C400548-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	3.9	D	0.20	mg/L	0.640	3.2	107	80-120	2	25	

Batch 4B28002 - Same

Blank (4B28002-BLK1) Prepared: 02/28/2014 07:55 Analyzed: 03/03/2014 09:14

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	0.48	U	0.48	mg/L							

LCS (4B28002-BS1) Prepared: 02/28/2014 07:55 Analyzed: 03/03/2014 09:16

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	12		0.48	mg/L	12.0		100	90-110			

Matrix Spike (4B28002-MS1) Prepared: 02/28/2014 07:55 Analyzed: 03/03/2014 09:21

Source: C400548-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	13		0.48	mg/L	4.79	7.8	104	90-110			

Matrix Spike Dup (4B28002-MSD1) Prepared: 02/28/2014 07:55 Analyzed: 03/03/2014 09:23

Source: C400548-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Kjeldahl Nitrogen	13		0.48	mg/L	4.79	7.8	107	90-110	1	10	

Batch 4B28022 - NO PREP

Blank (4B28022-BLK1) Prepared: 02/28/2014 12:57 Analyzed: 02/28/2014 15:21

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.10	U	0.10	mg/L							

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QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 4B28022 - NO PREP - Continued

LCS (4B28022-BS1) Prepared: 02/28/2014 12:57 Analyzed: 02/28/2014 15:18

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		106	90-110			

Matrix Spike (4B28022-MS1) Prepared: 02/28/2014 12:57 Analyzed: 02/28/2014 15:29

Source: C401812-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	69		10	mg/L	50.0	17	103	90-110			

Matrix Spike Dup (4B28022-MSD1) Prepared: 02/28/2014 12:57 Analyzed: 02/28/2014 15:30

Source: C401812-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	69		10	mg/L	50.0	17	103	90-110	0.5	10	

Batch 4C03004 - NO PREP

Blank (4C03004-BLK1) Prepared & Analyzed: 03/03/2014 08:30

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1.0	U	1.0	mg/L							

LCS (4C03004-BS1) Prepared & Analyzed: 03/03/2014 08:30

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	94		1.0	mg/L	100		94	80-120			

Duplicate (4C03004-DUP1) Prepared & Analyzed: 03/03/2014 08:30

Source: C402365-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	140		1.0	mg/L		120			11	10	QM-12

Duplicate (4C03004-DUP2) Prepared & Analyzed: 03/03/2014 08:30

Source: C402365-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1800		1.0	mg/L		1900			6	10	

Batch 4C03005 - Same

Blank (4C03005-BLK1) Prepared: 03/03/2014 10:03 Analyzed: 03/04/2014 14:16

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.0050	U	0.0050	mg/L							

LCS (4C03005-BS1) Prepared: 03/03/2014 10:03 Analyzed: 03/04/2014 14:18

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.0050	mg/L	0.150		98	90-110			

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QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 4C03005 - Same - Continued

Matrix Spike (4C03005-MS1) Prepared: 03/03/2014 10:03 Analyzed: 03/04/2014 14:22

Source: C401784-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.14		0.0050	mg/L	0.150	0.0050 U	95	90-110			

Matrix Spike Dup (4C03005-MSD1) Prepared: 03/03/2014 10:03 Analyzed: 03/04/2014 14:24

Source: C401784-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyanide (total)	0.15		0.0050	mg/L	0.150	0.0050 U	97	90-110	2	10	

Classical Chemistry Parameters - Quality Control

Batch 4C06008 - NO PREP

Blank (4C06008-BLK1) Prepared: 03/06/2014 07:45 Analyzed: 03/06/2014 14:00

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenolics	0.05	U	0.05	mg/L							

LCS (4C06008-BS1) Prepared: 03/06/2014 07:45 Analyzed: 03/06/2014 14:00

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenolics	0.53		0.05	mg/L	0.500		107	78-110			

Matrix Spike (4C06008-MS1) Prepared: 03/06/2014 07:45 Analyzed: 03/06/2014 14:00

Source: A400924-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenolics	0.10		0.05	mg/L	0.500	0.05 U	19	78-110			QM-07

Matrix Spike Dup (4C06008-MSD1) Prepared: 03/06/2014 07:45 Analyzed: 03/06/2014 14:00

Source: A400924-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenolics	0.12		0.05	mg/L	0.500	0.05 U	25	78-110	26	10	QM-07

Classical Chemistry Parameters - Quality Control

Batch 4C04002 - EPA 1664A

Blank (4C04002-BLK1) Prepared: 03/04/2014 11:15 Analyzed: 03/07/2014 11:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM-SGT) Non-Polar Material	1.60	U	5.00	mg/L							

LCS (4C04002-BS1) Prepared: 03/04/2014 11:15 Analyzed: 03/07/2014 11:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM-SGT) Non-Polar Material	22.2		5.00	mg/L	21.2		105	64-132			

LCS Dup (4C04002-BSD1) Prepared: 03/04/2014 11:15 Analyzed: 03/07/2014 11:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

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QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 4C04002 - EPA 1664A - Continued

LCS Dup (4C04002-BSD1) Continued Prepared: 03/04/2014 11:15 Analyzed: 03/07/2014 11:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM-SGT) Non-Polar Material	26.4		5.00	mg/L	21.2		125	64-132	17	34	

Matrix Spike (4C04002-MS1) Prepared: 03/04/2014 11:15 Analyzed: 03/07/2014 11:07

Source: B401013-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Oil & Grease (HEM-SGT) Non-Polar Material	70.5		5.00	mg/L	21.1	37.2	157	64-132			QM-02

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
B-07	LCS exceeded control limits for this test. The test can not be repeated due to method constraints. The result should be considered an estimated value.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-12	Precision between duplicate samples was outside acceptance limits.

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: AMEC E&I, Inc. (AM017)	Project Number: 6470-12-1039
Address: 4021 Stirrup Creek Dr., Ste. 100	Project Name/Desc: Veolia
City/ST/Zip: Durham, NC 27703	PO # / Billing Info:
Tel: (919) 381-9900 Fax: (919) 381-9360	Reporting Contact: Keron Cumberbatch
Sampler(s) Name, Affiliation (Print): KERON CUMBERBATCH, TECH PROF II	Billing Contact: Keron Cumberbatch
Sampler(s) Signature: [signature]	Site Location / Time Zone: CREEDMOR, NC

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C402034

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	NOX 353.2,P,TKN 351.2	O&G 1664B SGT	Phenols 420.1	TSS SM2540D							Sample Comments
	MW-1	2/26/14	1245	G	GW	15	X	X	X	X							
	MW-2	↓	1055	↓	GW	15	X	X	X	X							
	MW-3	↓	1425	↓	GW	15	X	X	X	X							
	Trip Blank				WA	2											

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	2/27/14	[signature]	2/27/14 920
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
				[signature]	2-27-14 9:50
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-202 2.5c C-404

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
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4810 Executive Park Court, Suite 111
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(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

www.encolabs.com

Client Name: AMEC E&I, Inc. (AM017)	Project Number: 6470-12-1039
Address: 4021 Stirrup Creek Dr., Ste. 100	Project Name/Desc: Veolia
City/ST/Zip: Durham, NC 27703	PO # / Billing Info:
Tel: (919) 381-9900 Fax: (919) 381-9360	Reporting Contact: Keron Cumberbatch
Sampler(s) Name, Affiliation (Print): KERON CUMBERBATCH, TECH PROF II	Billing Contact: Keron Cumberbatch
Sampler(s) Signature: [signature]	Site Location / Time Zone: CREEDMOR, NC

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

X Standard

___ Expedited

Due ___/___/___

Lab Workorder: C402034

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	608 PCB,625	608 Pest	624	Ag,As,Ba,Cd,Cr,Cu,Ni,Pb,Se,Sn,Tl,V,Zn	BOD SM5210B	COD SM5220D	Cyanide Total 335.4	Hg	Nitrate Calc 353.2	Nitrite as N 353.2	Sample Comments
	MW-1	2/26/14	1245	G	GW	15	X	X	X	X	X	X	X	X	X	X	
	MW-2	↓	1055	↓	GW	15	X	X	X	X	X	X	X	X	X	X	
	MW-3		1425		GW	15	X	X	X	X	X	X	X	X	X	X	
	Trip Blank				WA	2			X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
RAY	2/21	[signature]	2/27/14	[signature]	2/27/14 920
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Cooler #'s & Temps on Receipt: C-402 2.5 C-404

Condition Upon Receipt: ✓ Acceptable ___ Unacceptable

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments)

Preservation: **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

APPENDIX C

HISTORIC ANALYTICAL SUMMARY TABLES

AMEC Environment & Infrastructure, Inc.
4021 Stirrup Creek Drive, Suite 100
Durham, North Carolina 27703

Tel: (919) 381-9900
Fax: (919) 381-9901

www.amec.com

Summary of Historic Detected Parameters in Monitoring Well MW-1
2014 Annual Groundwater-Sampling Event
Veolia ES Technical Solutions
Creedmor, North Carolina
AMEC Project 6470-12-1039

Sample Location: MW-1	Parameters																Groundwater		
Sample Date	Biochemical Oxygen Demand	Chemical Oxygen Demand	Total Kjeldahl Nitrogen (TKN)	Nitrite as N	Nitrate/Nitrite as N	Nitrate as N	Cyanide	Phenolics	Oil and Grease	Phosphorus	Carbon Disulfide	Trichloroethene	Di-n-butylphthalate	Naphthalene	TICs	Total Suspended Solids	Top of Casing Elevation (ft msl)	Depth to Water (ft.)	Water-Table Elevation (ft msl)
Current 15A NCAC 2L Standard (ug/L)	*NE*	*NE*	*NE*	*1,000*	*NE*	*10,000*	*70*	*NE*	*NE*	*NE*	*700*	*3*	*700*	*6*	*NE*	*NE*	*NA*	*NA*	*NA*
02-Feb-94	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	1 J*	ND	ND	N/A	44 E	ND	347.13	NR	NA
25-Feb-95	ND	11,300	ND	10	N/A	5,740	ND	ND	ND	80	NT	ND	ND	N/A	NT	43,000	347.13	NR	NA
05-Mar-96	ND	5,000	ND	ND	N/A	4,520	ND	ND	ND	ND	NT	ND	ND	N/A	NT	513,000	347.13	NR	NA
06-Feb-97	ND	53,000	1,100	ND	N/A	4,440	ND	ND	ND	70	NT	ND	ND	N/A	NT	106,000	347.13	NR	NA
21-Feb-98	ND	ND	ND	ND	N/A	ND	ND	ND	ND	ND	NT	ND	ND	N/A	NT	27,700	347.13	NR	NA
9-Feb-99	ND	ND	ND	ND	N/A	ND	ND	ND	1,800	ND	NT	ND	4.6	N/A	NT	262,400	347.13	NR	NA
7-Feb-00	ND	34,000	ND	ND	N/A	ND	ND	ND	3,000	82	NT	ND	ND	N/A	NT	32,000	347.13	NR	NA
13-Feb-01	ND	32,000	ND	ND	N/A	ND	ND	ND	1,000	810	NT	ND	ND	N/A	NT	73,000	347.13	2.50	344.63
4-Feb-02	ND	ND	620	ND	N/A	ND	ND	ND	19,000	160	NT	ND	ND	N/A	NT	14,000	347.13	2.64	344.49
21-Mar-02	NT	NT	NT	NT	N/A	NT	NT	NT	ND	NT	NT	NT	NT	N/A	NT	NT	347.13	NR	NA
6-Feb-03	ND	25,000	ND	ND	N/A	ND	ND	ND	ND	100	NT	ND	ND	N/A	NT	80,000	347.13	2.38	344.75
24-Feb-04	ND	32,000	ND	ND	N/A	ND	ND	ND	ND	ND	NT	11	ND	N/A	NT	110,000	347.13	NR	NA
7-Feb-05	ND	32,000	ND	ND	N/A	ND	ND	ND	ND	ND	NT	ND	ND	N/A	NT	20,000	347.13	NR	NA
9-Feb-06	ND	ND	ND	ND	N/A	2,500	3.9	ND	2,900	240	NT	ND	ND	N/A	NT	260,000	347.13	NR	NA
13-Feb-07	ND	34,000	140	ND	N/A	30 J	ND	ND	ND	ND	NT	ND	ND	N/A	NT	5,000	347.13	2.07	345.06
22-Feb-08	ND	28,000	270	ND	N/A	25 J	ND	ND	ND	ND	NT	ND	ND	N/A	NT	16,000	347.13	2.97	344.16
10-Feb-09	ND	48,000	220 J	11 J	N/A	ND	ND	ND	ND	ND	NT	ND	ND	N/A	NT	2,700	347.13	2.42	344.71
19-Feb-10	ND	31,000	310 J	16 JB	N/A	ND	ND	40 J	ND	ND	NT	ND	ND	N/A	NT	2,600	347.13	1.88	345.25
3-Feb-11	ND	38,000	610	ND	N/A	ND	ND	ND	ND	ND	NT	ND	ND	N/A	NT	17,000	347.13	2.58	344.55
22-Feb-12	ND	38,000	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	2,800	347.13	2.08	345.05
4-Feb-13	ND	43,000	510	ND	ND	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	2,800	347.13	2.46	344.67
26-Feb-14	ND	28,000	ND	ND	ND	ND	ND	ND	6,210	ND	NT	ND	ND	ND	NT	ND	347.13	2.06	345.07

Concentrations reported in ug/L

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J* = Reported as a nontargeted peak at an estimated concentration

J = Detected below the Reporting Limit; therefore, result is an estimated concentration

B= The analyte was detected in the associated method blank

Prepared by: KC Date: 4/4/14

Checked by: ZT Date: 4/8/14

Summary of Historic Detected Metal Parameters in Monitoring Well MW-1
2014 Annual Groundwater-Sampling Event
Veolia ES Technical Solutions
Creedmor, North Carolina
AMEC Prooject: 6470-12-1039

Sample Location: MW-1	Parameters																	Groundwater		
Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc	Top of Casing Elevation (ft msl)	Depth to Water (ft.)	Water-Table Elevation (ft msl)
Current 15A NCAC 2L Standard (ug/L)	*NE*	*10*	*700*	*NE*	*2*	*10*	*NE*	*1,000*	*15*	*1*	*100*	*20*	*20*	*0.2*	*2,000*	*0.3*	*1,000*	*NA*	*NA*	*NA*
02-Feb-94	ND	ND	ND	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	NT	140	347.13	NR	NA
25-Feb-95	ND	ND	76	NT	ND	ND	NT	ND	ND	ND	6	ND	ND	ND	NT	NT	81	347.13	NR	NA
05-Mar-96	ND	ND	206	NT	1	8	NT	ND	17	ND	ND	ND	ND	ND	NT	NT	14	347.13	NR	NA
06-Feb-97	62	ND	153	NT	2	5	NT	ND	11	ND	ND	ND	ND	3	NT	NT	ND	347.13	NR	NA
21-Feb-98	ND	ND	66	NT	5	ND	NT	40	19	ND	ND	ND	8	ND	NT	NT	240	347.13	NR	NA
9-Feb-99	ND	ND	1,070	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	NT	160	347.13	NR	NA
7-Feb-00	NT	ND	1,000	NT	ND	ND	NT	ND	ND	ND	ND	5.7	ND	ND	41	NT	10	347.13	NR	NA
13-Feb-01	NT	ND	1,100	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	26	347.13	2.50	344.63
4-Feb-02	ND	ND	1,000	NT	ND	ND	ND	ND	9.6	ND	18	ND	ND	ND	NT	NT	ND	347.13	2.64	344.49
21-Mar-02	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	347.13	NR	NA
6-Feb-03	5.9	ND	1,000	ND	ND	ND	ND	ND	5.2	ND	ND	ND	ND	ND	ND	ND	ND	347.13	2.38	344.75
24-Feb-04	ND	ND	990	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	347.13	NR	NA
7-Feb-05	NT	ND	1,000	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	347.13	NR	NA
9-Feb-06	NT	ND	300	NT	ND	16	NT	ND	12	ND	ND	ND	ND	ND	ND	18	ND	347.13	NR	NA
13-Feb-07	NT	ND	1,080	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	ND	1.4 J	347.13	2.07	345.06
22-Feb-08	NT	ND	1,220	ND	0.60 J	ND	NT	ND	ND	ND	5.0 J	ND	ND	7.3 JB	ND	ND	4.8 JB	347.13	2.97	344.16
10-Feb-09	NT	ND	1,080	NT	1.83	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.2 J	347.13	2.42	344.71
19-Feb-10	NT	ND	1,140	NT	0.432 J	ND	NT	ND	ND	ND	ND	ND	2.17 J	ND	5.11 J	ND	4.92 J	347.13	1.88	345.25
3-Feb-11	NT	ND	1,190	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.1	347.13	2.58	344.55
22-Feb-12	NT	ND	1,070	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	347.13	2.08	345.05
4-Feb-13	NT	ND	1,000	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	347.13	2.46	344.67
26-Feb-14	NT	ND	981	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	347.13	2.06	345.07

Concentrations reported in ug/L

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NT = Not Tested for this compound

ND = Compound not detected

NR = Not reported

J* = Reported as a nontargeted peak at an estimated concentration
J = Detected below the Reporting Limit; therefore, result is an estimated concentration
B= The analyte was detected in the associated method blank

Prepared by: KC Date: 4/4/14

Checked by: ZT Date: 4/8/14

Summary of Historic Detected Parameters in Monitoring Well MW-2
2014 Annual Groundwater-Sampling Event
Veolia ES Technical Solutions
Creedmor, North Carolina
AMEC Project: 6470-12-1039

Sample Location: MW-2	Parameters																Groundwater		
Sample Date	Biochemical Oxygen Demand	Chemical Oxygen Demand	Total Kjeldahl Nitrogen (TKN)	Nitrite as N	Nitrate/Nitrite as N	Nitrate as N	Cyanide	Phenolics	Oil and Grease	Phosphorous	Carbon Disulfide	Trichloroethene	Di-n-butylphthalate	Naphthalene	TICs	Total Suspended Solids	Top of Casing Elevation (ft msl)	Depth to Water (ft.)	Water-Table Elevation (ft msl)
Current 15A NCAC 2L Standard (ug/L)	*NE*	*NE*	*NE*	*1,000*	*NE*	*10,000*	*70*	*NE*	*NE*	*NE*	*700*	*3*	*700*	*6*	*NE*	*NE*	*NA*	*NA*	*NA*
23-Feb-94	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A	ND	ND	20 E	ND	367.18	NR	NA
25-Feb-95	ND	32,100	ND	ND	ND	ND	ND	ND	1,400	40	N/A	N/A	ND	ND	NT	82,000	367.18	NR	NA
05-Mar-96	ND	28,000	ND	ND	ND	400	ND	ND	1,400	200	N/A	N/A	ND	ND	NT	420,000	367.18	NR	NA
06-Feb-97	ND	53,000	ND	ND	ND	ND	ND	8	ND	30	N/A	N/A	ND	ND	NT	14,000	367.18	NR	NA
21-Feb-98	ND	25,600	ND	ND	ND	3,690	ND	12	ND	ND	N/A	N/A	ND	ND	NT	75,300	367.18	NR	NA
9-Feb-99	2,700	23,900	ND	ND	ND	3,560	ND	ND	2,900	ND	N/A	N/A	5	ND	NT	65,500	367.18	NR	NA
7-Feb-00	ND	ND	ND	ND	ND	3,200	ND	ND	3,000	200	N/A	N/A	ND	ND	NT	120,000	367.18	NR	NA
13-Feb-01	ND	ND	ND	ND	ND	2,800	ND	ND	ND	720	N/A	N/A	ND	ND	NT	53,000	367.18	3.97	363.21
4-Feb-02	ND	ND	ND	ND	ND	2,900	ND	ND	6,900	170	N/A	N/A	ND	ND	NT	32,000	367.18	3.54	363.64
21-Mar-02	NT	NT	NT	NT	ND	NT	NT	NT	6,600	NT	N/A	N/A	NT	NT	NT	NT	367.18	NR	NA
6-Feb-03	ND	ND	ND	ND	ND	2,800	ND	ND	ND	150	N/A	N/A	ND	ND	NT	48,000	367.18	3.54	363.64
24-Feb-04	ND	ND	ND	ND	ND	2,800	ND	ND	ND	ND	N/A	N/A	ND	ND	NT	32,000	367.18	NR	NA
7-Feb-05	ND	ND	ND	ND	ND	2,700	ND	ND	ND	ND	N/A	N/A	ND	ND	NT	36,000	367.18	NR	NA
9-Feb-06	ND	38,000	ND	ND	ND	1,700	4	ND	4,000	ND	N/A	N/A	ND	ND	NT	250,000	367.18	NR	NA
13-Feb-07	ND	13,000	90	ND	ND	2,360	ND	ND	ND	68	N/A	N/A	ND	4 J	NT	170,000	367.18	3.72	363.46
22-Feb-08	ND	24,000	ND	ND	ND	2,000	ND	ND	ND	40	N/A	N/A	ND	7 J	NT	59,000	367.18	3.76	363.42
10-Feb-09	ND	21,000	150 J	13 J	2,200	2,200	ND	ND	ND	ND	N/A	N/A	ND	6 J	NT	13,000	367.18	3.73	363.45
19-Feb-10	ND	12,000	ND	15 JB	1,900	1,900	ND	ND	ND	36 J	N/A	N/A	ND	2 J	NT	61,000	367.18	3.05	364.13
3-Feb-11	ND	19,000	ND	ND	1,900	1,800	ND	ND	ND	ND	N/A	N/A	ND	ND	NT	58,000	367.18	3.28	363.90
22-Feb-12	ND	12,000	ND	ND	2,000	2,000	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	367.18	2.86	364.32
4-Feb-13	ND	15,000	ND	ND	2,200	2,200	ND	ND	ND	ND	ND	ND	ND	ND	NT	8,000	367.18	3.21	363.97
26-Feb-14	ND	ND	ND	ND	1,800	1,800	ND	ND	5,080	ND	ND	ND	ND	ND	NT	2,000	367.18	2.86	364.32

Concentrations reported in ug/L

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N/A = Data not available

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B= The analyte was detected in the associated method blank

Prepared by: KC Date: 4/4/14

Checked by: ZT Date: 4/8/14

Summary of Historic Detected Parameters in Monitoring Well MW-2
2014 Annual Groundwater-Sampling Event
Veolia ES Technical Solutions
Creedmor, North Carolina
AMEC Project 6470-12-1039

Sample Location: MW-2	Parameters																	Groundwater		
Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc	Top of Casing Elevation (ft msl)	Depth to Water (ft.)	Water-Table Elevation (ft msl)
Current 15A NCAC 2L Standard (ug/L)	*NE*	*10*	*700*	*NE*	*2*	*10*	*NE*	*1,000*	*15*	*1*	*100*	*20*	*20*	*0.2*	*2,000*	*0.3*	*1,000*	*NA*	*NA*	*NA*
23-Feb-94	ND	ND	ND	6.0	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	NT	94	367.18	NR	#N/A
25-Feb-95	ND	ND	1048	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	NT	118	367.18	NR	#N/A
05-Mar-96	ND	ND	12	NT	1	6	NT	5	14	ND	ND	ND	ND	ND	NT	NT	77	367.18	NR	#N/A
06-Feb-97	73	ND	925	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	NT	NT	ND	367.18	NR	#N/A
21-Feb-98	ND	ND	940	NT	2	ND	NT	32	ND	0.8	310	ND	ND	ND	NT	NT	ND	367.18	NR	#N/A
9-Feb-99	ND	ND	34	NT	ND	ND	NT	25	ND	ND	ND	ND	ND	ND	NT	NT	ND	367.18	NR	#N/A
7-Feb-00	NT	ND	150	NT	ND	ND	NT	ND	ND	ND	ND	6.7	ND	ND	ND	NT	34	367.18	NR	#N/A
13-Feb-01	NT	ND	110	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	17	367.18	3.97	363.21
4-Feb-02	ND	10	100	ND	ND	ND	ND	ND	10	ND	21	ND	ND	12	NT	NT	14	367.18	3.54	363.64
21-Mar-02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	367.18	NR	#N/A
6-Feb-03	ND	ND	110	ND	ND	ND	ND	ND	6.1	ND	ND	ND	ND	ND	ND	ND	ND	367.18	3.54	363.64
24-Feb-04	ND	ND	92	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	367.18	NR	#N/A
7-Feb-05	NT	ND	100	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND	367.18	NR	#N/A
9-Feb-06	NT	ND	1300	NT	ND	16	NT	ND	7.2	ND	ND	ND	ND	ND	ND	19	ND	367.18	NR	#N/A
13-Feb-07	NT	ND	153	NT	ND	ND	NT	ND	ND	ND	3.1 J	ND	ND	4.9 J	NT	2.2 J	17	367.18	3.72	363.46
22-Feb-08	NT	3.1 J	101	NT	ND	9.5 J	NT	1.40 J	ND	ND	7.3 J	ND	ND	9.1 JB	ND	2.2 J	9.3 JB	367.18	3.76	363.42
10-Feb-09	NT	ND	78.9	NT	ND	ND	NT	1.35 J	ND	ND	ND	ND	ND	ND	ND	0.9 J	3.5 J	367.18	3.73	363.45
19-Feb-10	NT	6.89 J	110	NT	ND	ND	NT	ND	2.82 J	ND	ND	ND	ND	ND	ND	2.52 J	8.13 J	367.18	3.05	364.13
3-Feb-11	NT	ND	198	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	51.2	367.18	3.28	363.90
22-Feb-12	NT	ND	77.6	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	367.18	2.86	364.32
4-Feb-13	NT	ND	85.7	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	367.18	3.21	363.97
26-Feb-14	NT	ND	84.4	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	0.6 J	4.1 J	367.18	2.86	364.32

Concentrations reported in ug/L

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ND = Compound not detected

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Prepared by: KC Date: 4/4/14

Checked by: ZT Date: 4/8/14

Summary of Historic Detected Parameters in Monitoring Well MW-3
2014 Annual Groundwater-Sampling Event
Veolia ES Technical Solutions
Creedmor, North Carolina
AMEC Project: 6470-12-1039

Sample Location: MW-3	Parameters																Groundwater		
Sample Date	Biochemical Oxygen Demand	Chemical Oxygen Demand	Total Kjeldahl Nitrogen (TKN)	Nitrite as N	Nitrate/Nitrite as N	Nitrate as N	Cyanide	Phenolics	Oil and Grease	Phosphorus	Carbon Disulfide	Trichlorethene	Di-n-butylphthalate	Naphthalene	TICs	Total Suspended Solids	Top of Casing Elevation (ft)	Depth to Water (ft.)	Water-Table Elevation (ft.)
Current 15A NCAC 2L Standard (ug/L)	*NE*	*NE*	*NE*	*1,000*	*NE*	*10,000*	*70*	*NE*	*NE*	*NE*	*700*	*3*	*700*	*6*	*NE*	*NE*	*NA*	*NA*	*NA*
13-Feb-07	ND	24,000	150	ND	ND	310	ND	ND	ND	37	N/A	N/A	N/A	N/A	N/A	79,000	360.34	15.45	344.89
22-Feb-08	ND	110,000	340	ND	ND	22 J	ND	ND	ND	50	N/A	N/A	N/A	N/A	N/A	360,000	360.34	17.82	342.52
10-Feb-09	ND	46,000	150 J	11 J	18 J	ND	ND	ND	ND	140	N/A	N/A	N/A	N/A	N/A	73,000	360.34	16.56	343.78
19-Feb-10	ND	27,000	310 J	6 JB	37 J	31 J	ND	ND	ND	95 J	N/A	N/A	N/A	N/A	N/A	27,000	360.34	16.20	344.14
3-Feb-11	ND	34,000	ND	ND	ND	ND	ND	ND	ND	190	N/A	N/A	N/A	N/A	N/A	700,000	360.34	16.20	344.14
22-Feb-12	ND	21,000	ND	ND	ND	ND	ND	ND	ND	110	ND	ND	ND	ND	ND	2,000	360.34	16.41	343.93
4-Feb-13	ND	26,000	ND	ND	ND	ND	ND	ND	ND	120	ND	ND	ND	ND	ND	1,600	360.34	16.74	343.60
26-Feb-14	ND	ND	ND	ND	ND	ND	ND	ND	3,270 J	240	ND	ND	ND	ND	ND	11,000	360.34	16.48	343.86

Monitoring well MW-3 installed February 6, 2007

Concentrations reported in ug/L

NA = Not Applicable

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J = Detected but below the reporting limit; therefore, result is an estimated concentration

Prepared by: KC Date: 4/4/14

Checked by: ZT Date: 4/8/14

Summary of Historic Detected Parameters in Monitoring Well MW-3
2014 Annual Groundwater-Sampling Event
Veolia ES Technical Solutions
Creedmor, North Carolina
AMEC Project: 6470-12-1039

Sample Location: MW-3	Parameters																	Groundwater		
Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Tin	Vanadium	Zinc	Top of Casing Elevation (ft)	Depth to Water (ft.)	Water-Table Elevation (ft.)
Current 15A NCAC 2L Standard (ug/L)	*NE*	*10*	*700*	*NE*	*2*	*10*	*NE*	*1,000*	*15*	*1*	*100*	*20*	*20*	*0.2*	*2000*	*0.3*	*1,000*	*NA*	*NA*	*NA*
13-Feb-07	NT	ND	804	NT	ND	ND	NT	1.6 J	ND	ND	3.8 J	ND	ND	5.6 J	N/A	ND	9.9 J	360.34	15.45	344.89
22-Feb-08	NT	ND	931	NT	ND	ND	NT	6.50 J	ND	ND	3.7 J	ND	ND	10.4 JB	N/A	ND	9.2 JB	360.34	17.82	342.52
10-Feb-09	NT	ND	870	NT	0.61 J	1.2 J	NT	1.40 J	2.4 J	ND	1.8 J	ND	ND	ND	N/A	2.6 J	10.5	360.34	16.56	343.78
19-Feb-10	NT	2.91 J	871	NT	0.56 J	ND	NT	ND	2.28 J	ND	ND	ND	ND	ND	N/A	ND	8.42 J	360.34	16.20	344.14
3-Feb-11	NT	ND	901	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	16.4	N/A	ND	79.6	360.34	16.20	344.14
22-Feb-12	NT	ND	840	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	360.34	16.41	343.93
4-Feb-13	NT	ND	842	NT	ND	ND	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	360.34	16.74	343.60
26-Feb-14	NT	ND	873	NT	ND	ND	NT	ND	2.5 J	ND	ND	ND	ND	ND	ND	ND	8.2 J	360.34	16.48	343.86

Monitoring well MW-3 installed February 6, 2007

Concentrations reported in ug/L

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J = Detected but below the reporting limit; therefore, result is an estimated concentration

B = The analyte was detected in the associated method blank

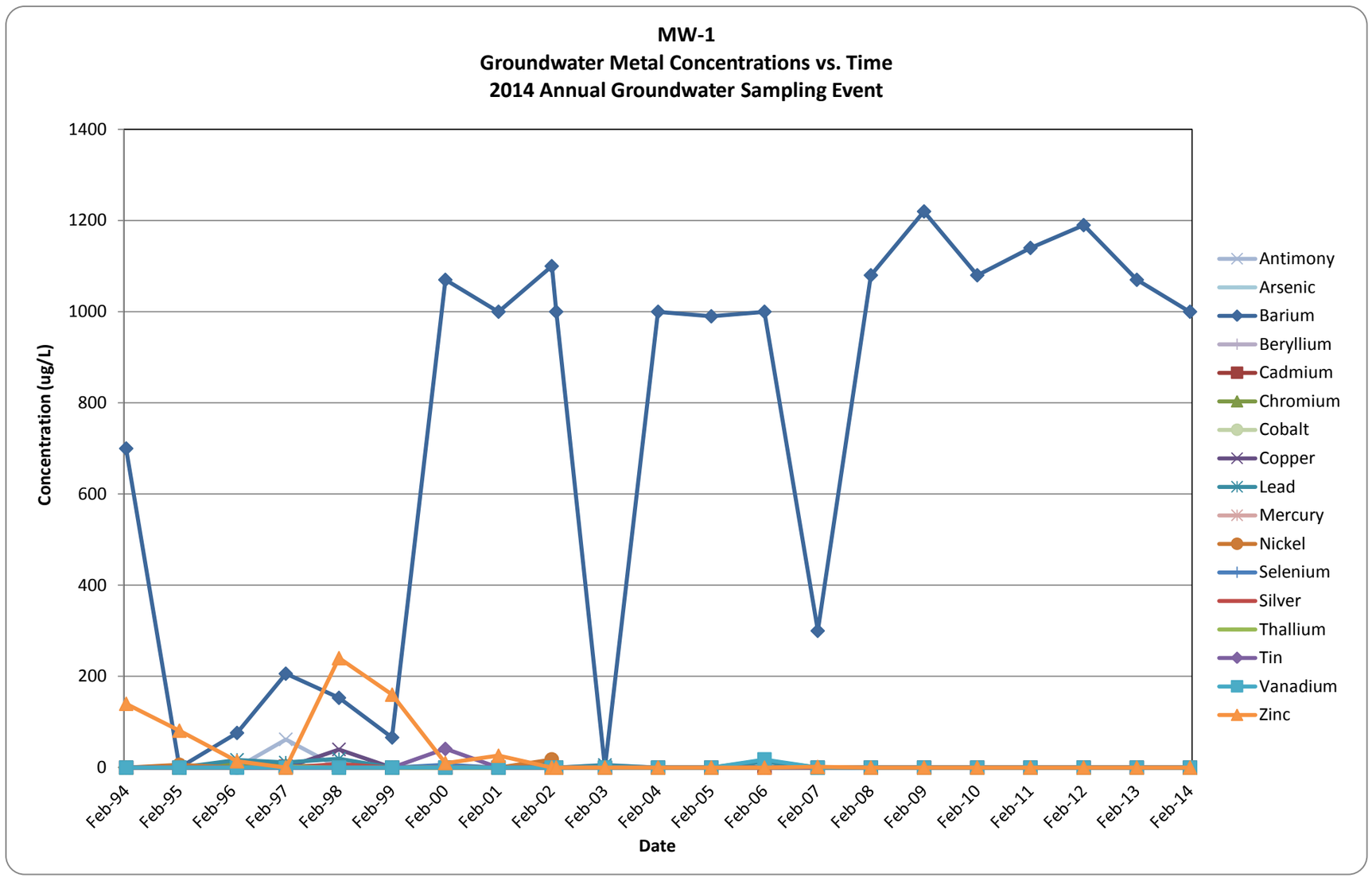
Prepared by: KC Date: 4/4/14

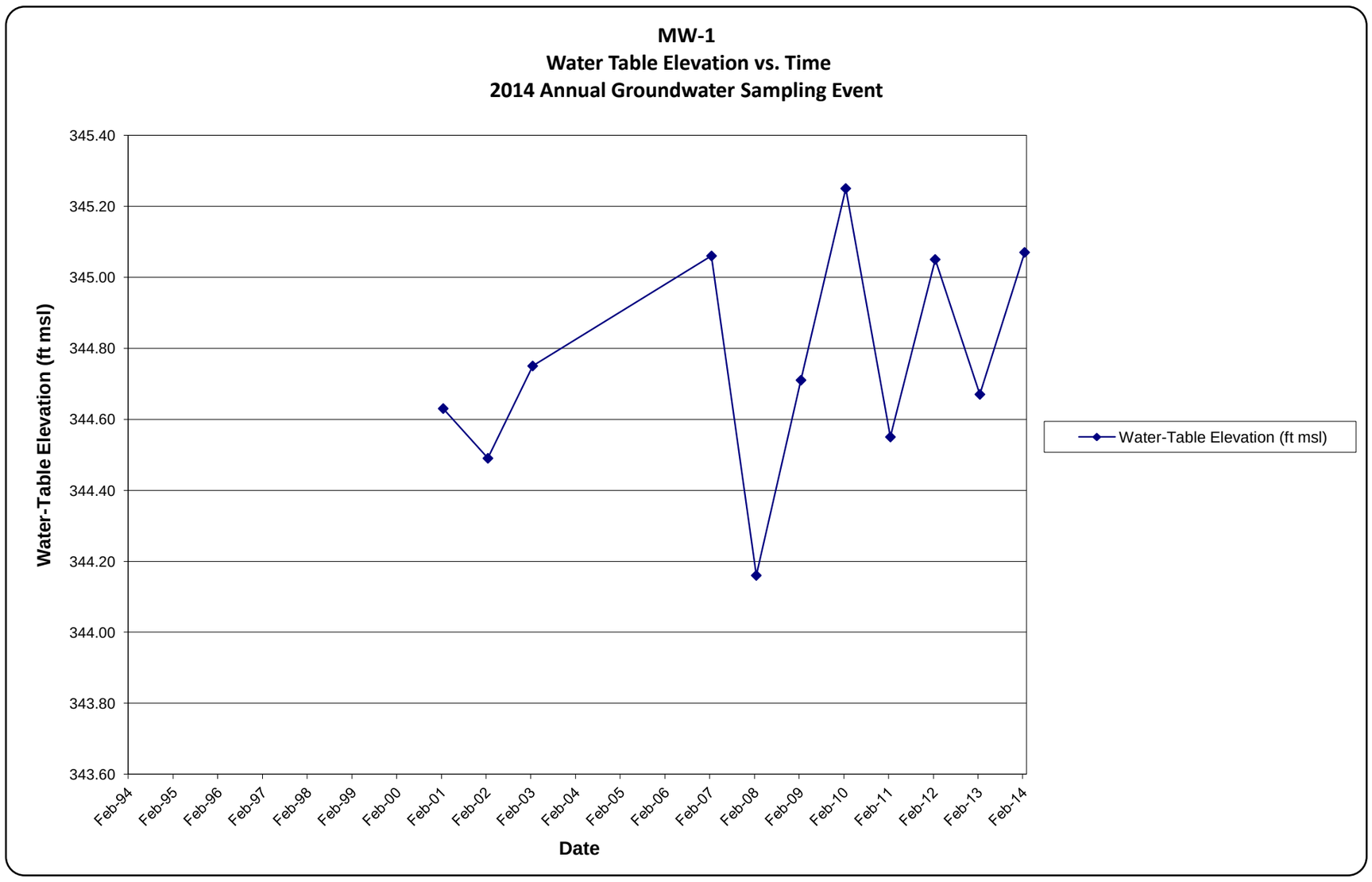
Checked by: ZT Date: 4/8/14

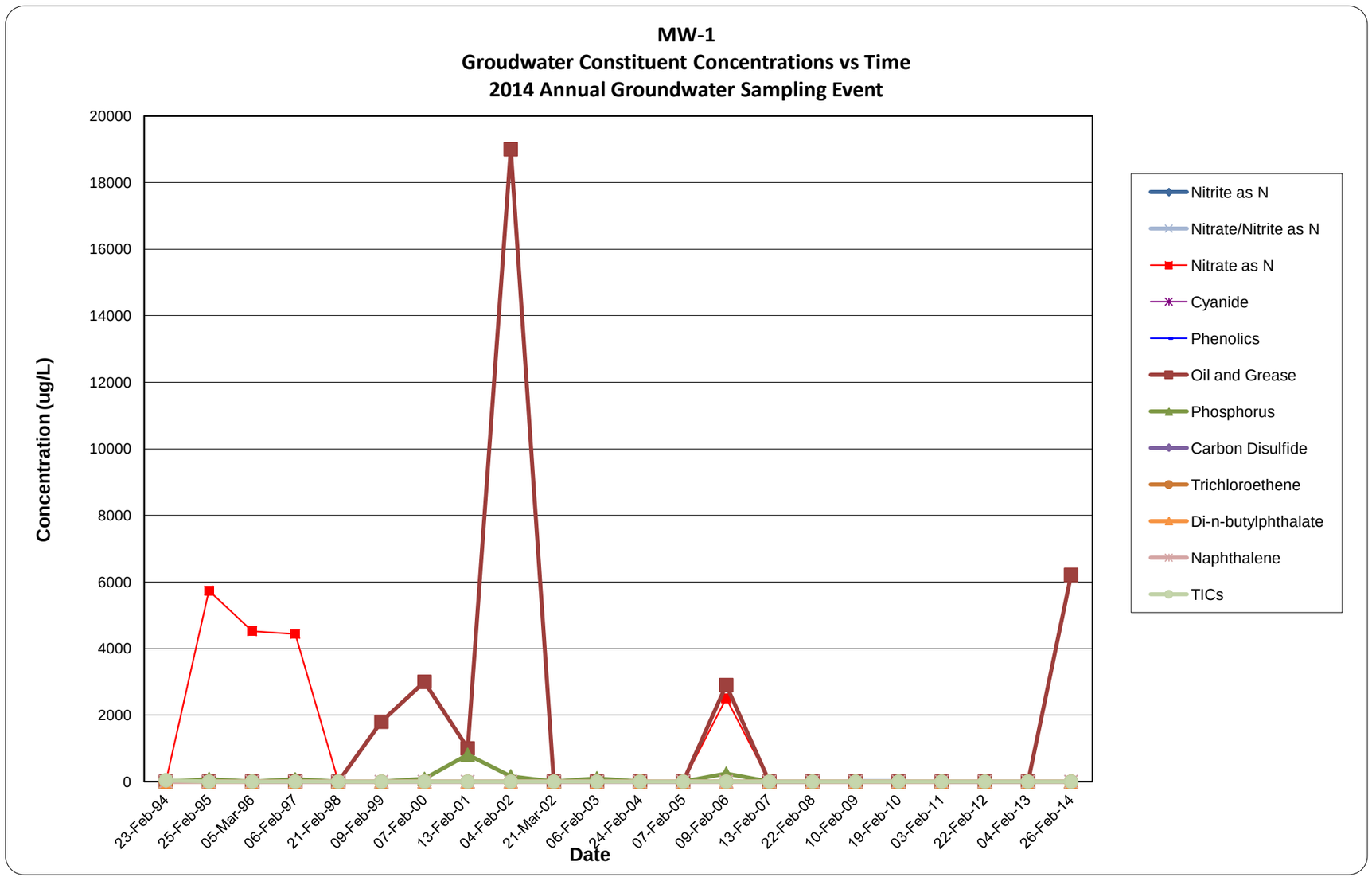
APPENDIX D

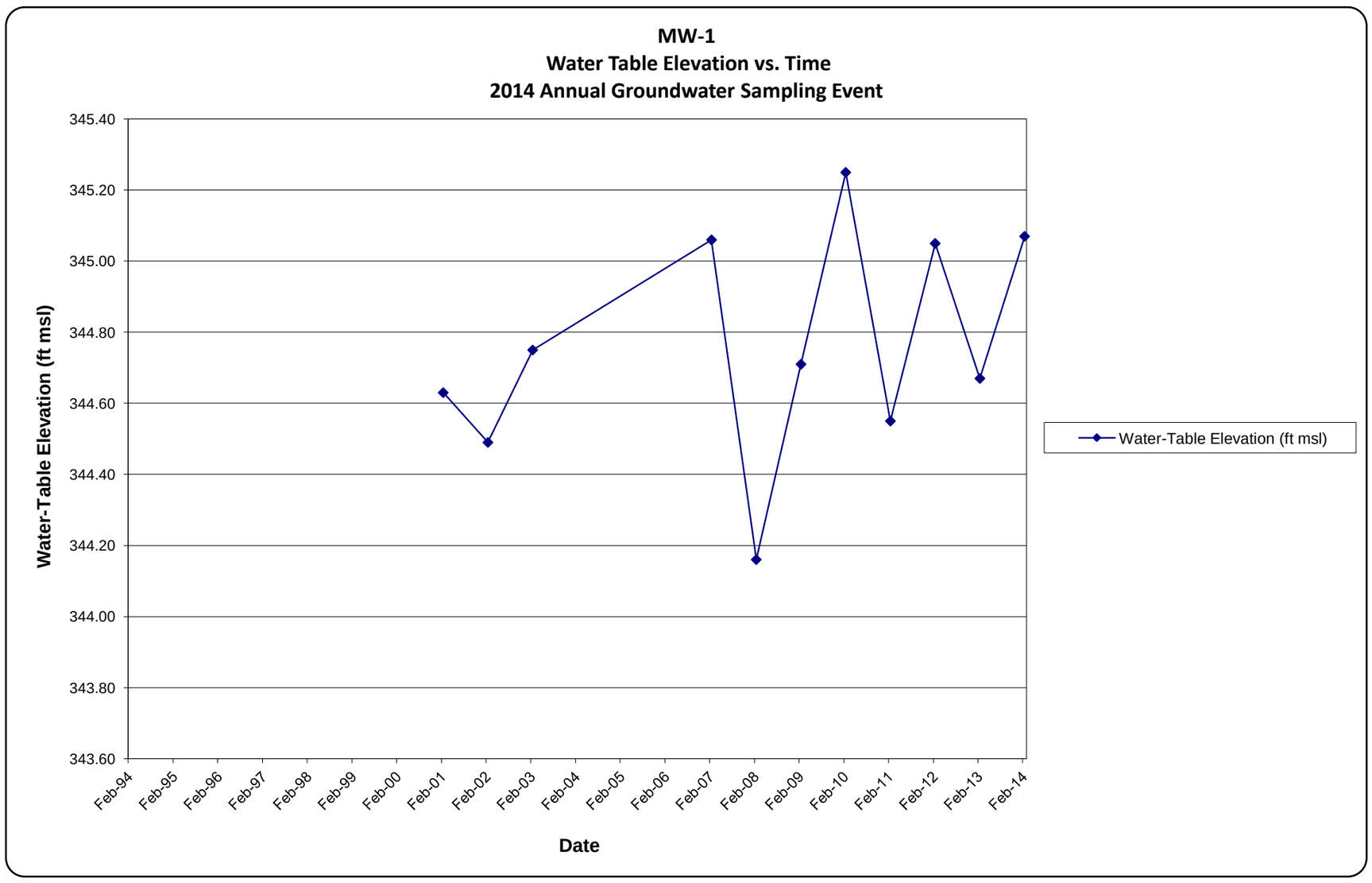
CONCENTRATION TREND PLOTS

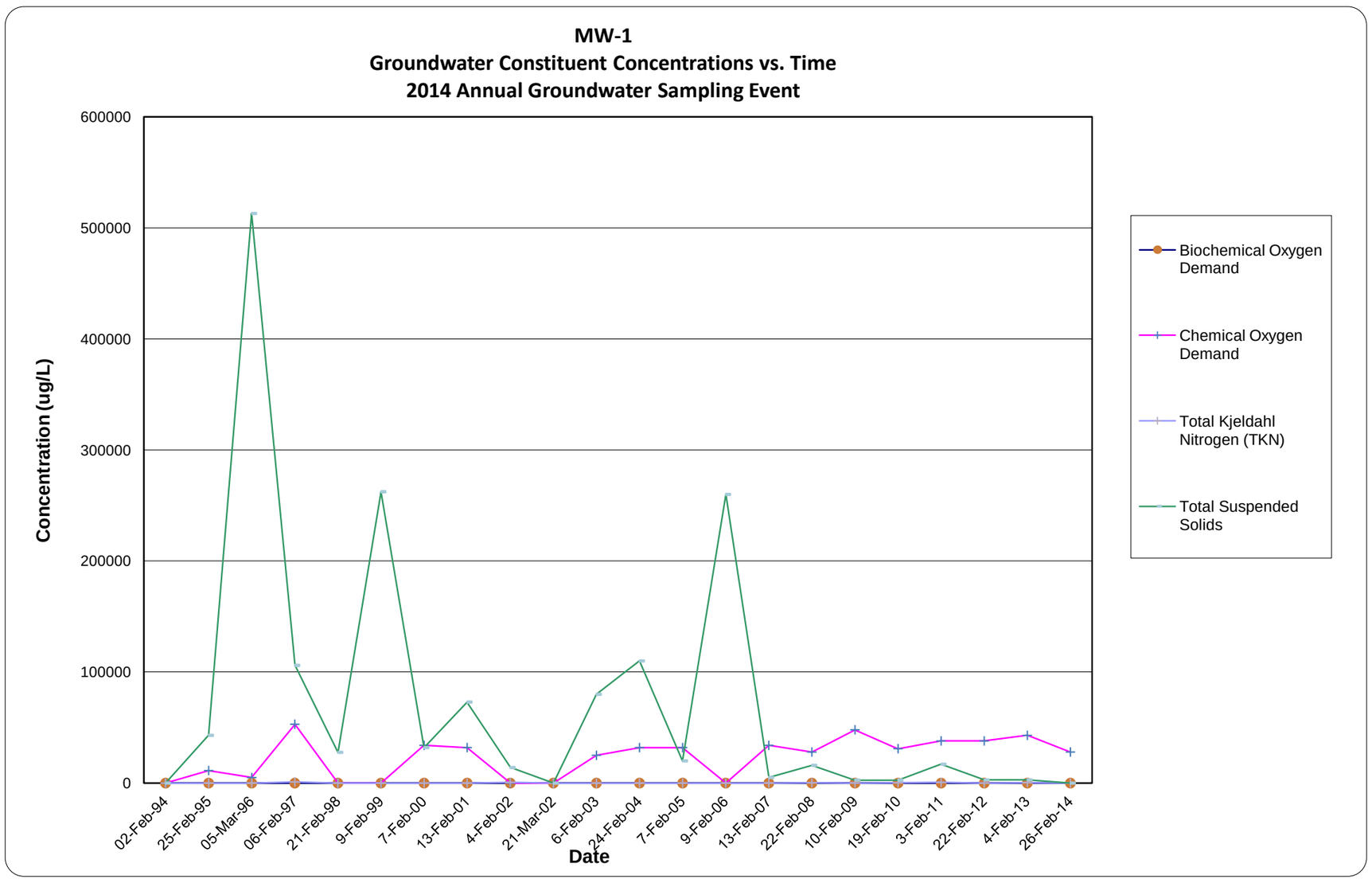
AMEC Environment & Infrastructure, Inc.
4021 Stirrup Creek Drive, Suite 100
Durham, North Carolina 27703
www.amec.com
Tel: (919) 381-9900
Fax: (919) 381-9901

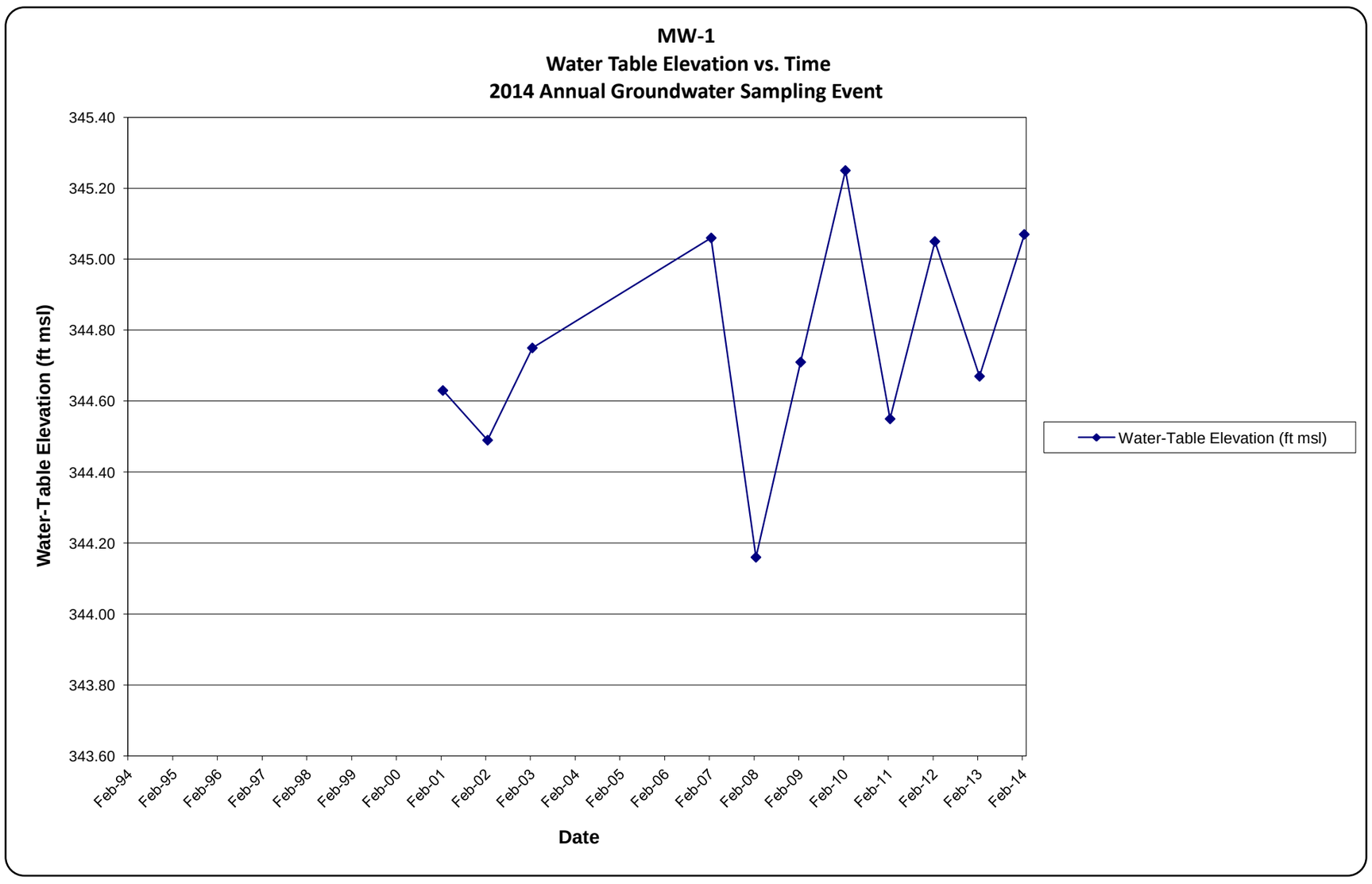

MW-1
Groundwater Metal Concentrations vs. Time
2014 Annual Groundwater Sampling Event
Concentration (ug/L)
1400
1200
1000
800
600
400
200
0
Feb-94
Feb-95
Feb-96
Feb-97
Feb-98
Feb-99
Feb-00
Feb-01
Feb-02
Feb-03
Feb-04
Feb-05
Feb-06
Feb-07
Feb-08
Feb-09
Feb-10
Feb-11
Feb-12
Feb-13
Feb-14
Date
Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Cobalt
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Tin
Vanadium
Zinc

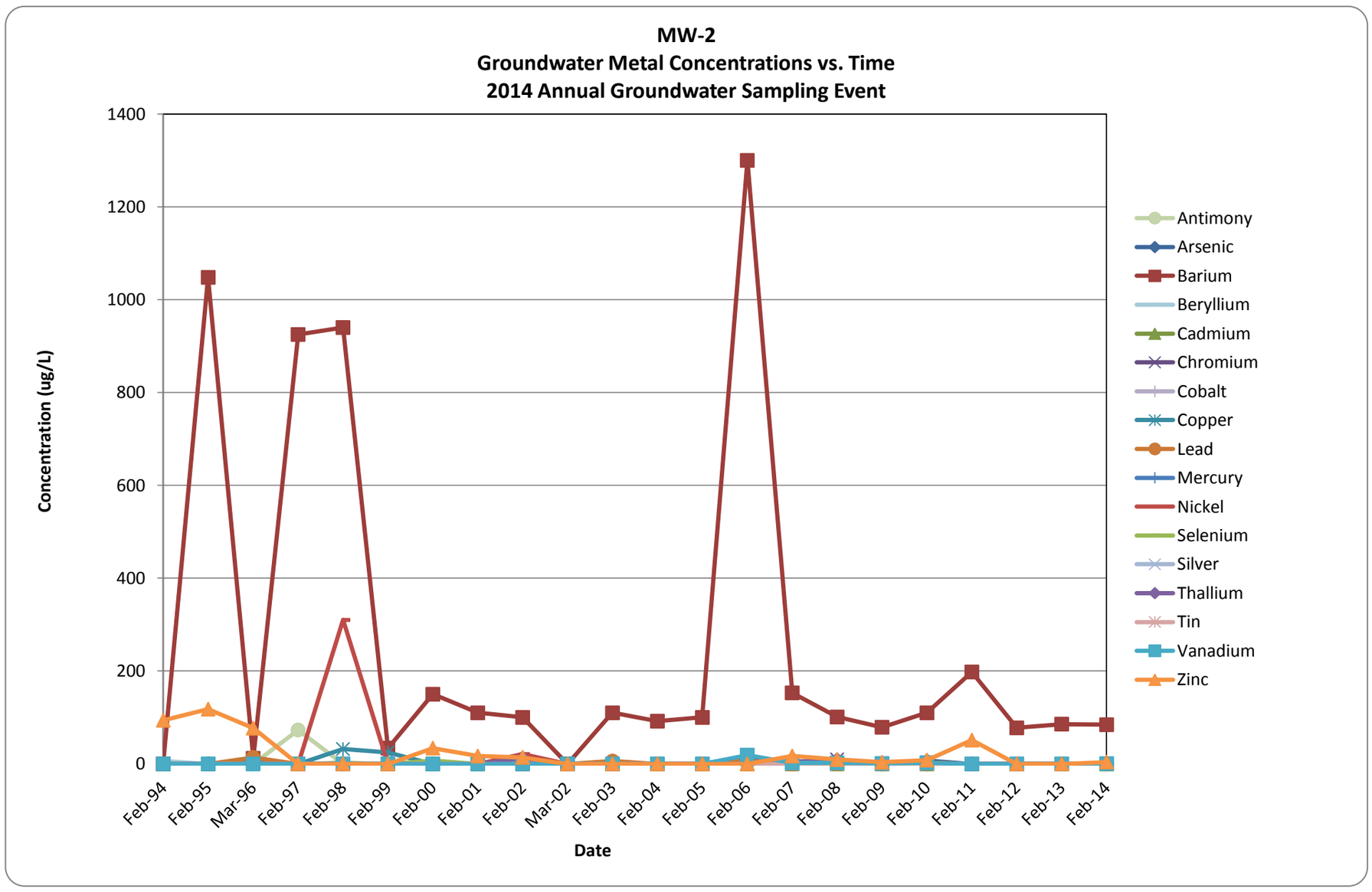

MW-1
Water Table Elevation vs. Time
2014 Annual Groundwater Sampling Event
Water-Table Elevation (ft msl)
345.40
345.20
345.00
344.80
344.60
344.40
344.20
344.00
343.80
343.60
Feb-94
Feb-95
Feb-96
Feb-97
Feb-98
Feb-99
Feb-00
Feb-01
Feb-02
Feb-03
Feb-04
Feb-05
Feb-06
Feb-07
Feb-08
Feb-09
Feb-10
Feb-11
Feb-12
Feb-13
Feb-14
Date
Water-Table Elevation (ft msl)

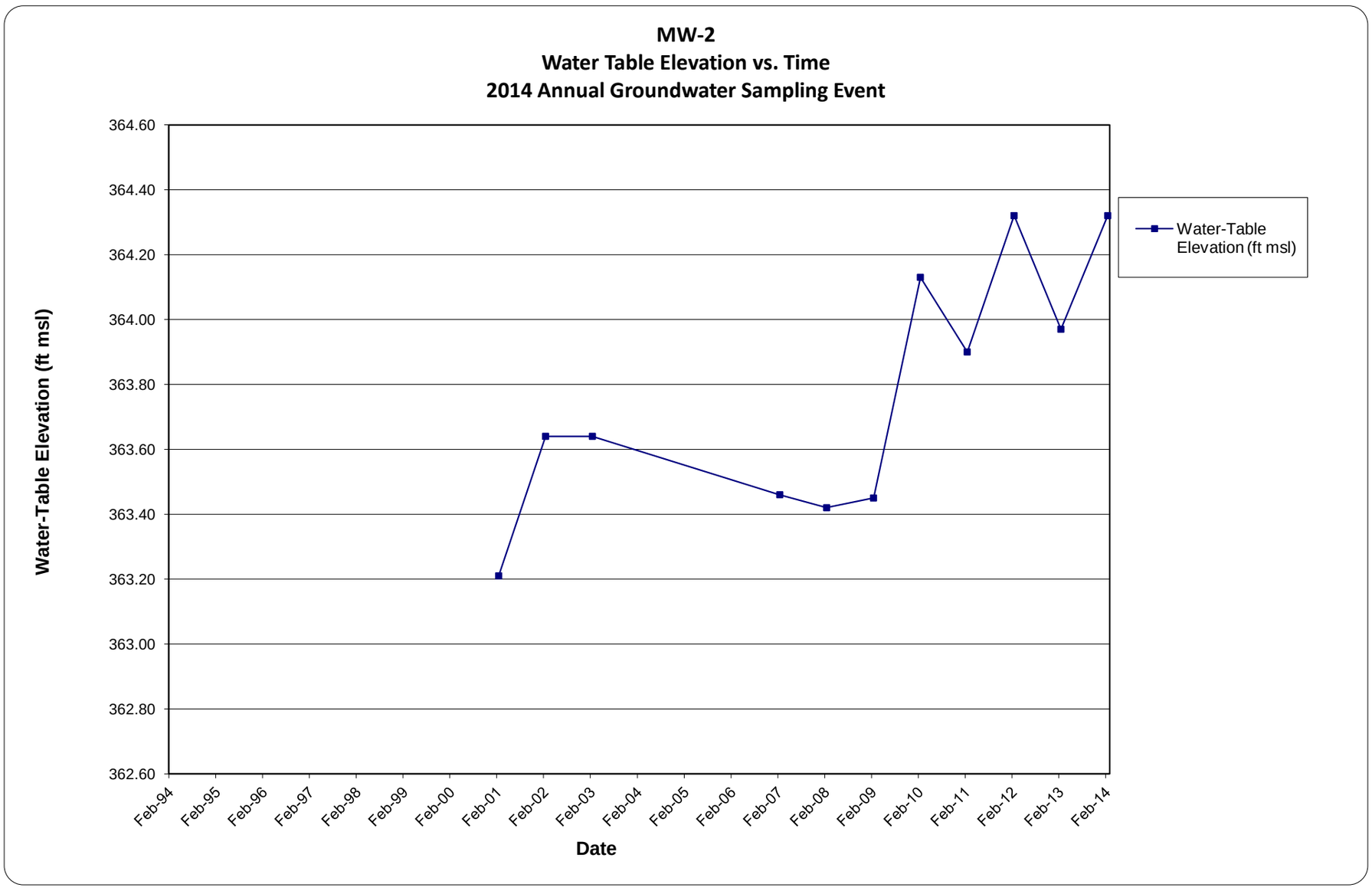

MW-1
Groudwater Constituent Concentrations vs Time
2014 Annual Groundwater Sampling Event
Concentration (ug/L)
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
23-Feb-94
25-Feb-95
05-Mar-96
06-Feb-97
21-Feb-98
09-Feb-99
07-Feb-00
13-Feb-01
04-Feb-02
21-Mar-02
06-Feb-03
24-Feb-04
07-Feb-05
09-Feb-06
13-Feb-07
22-Feb-08
10-Feb-09
19-Feb-10
03-Feb-11
22-Feb-12
04-Feb-13
26-Feb-14
Date
Nitrite as N
Nitrate/Nitrite as N
Nitrate as N
Cyanide
Phenolics
Oil and Grease
Phosphorus
Carbon Disulfide
Trichloroethene
Di-n-butylphthalate
Naphthalene
TICs

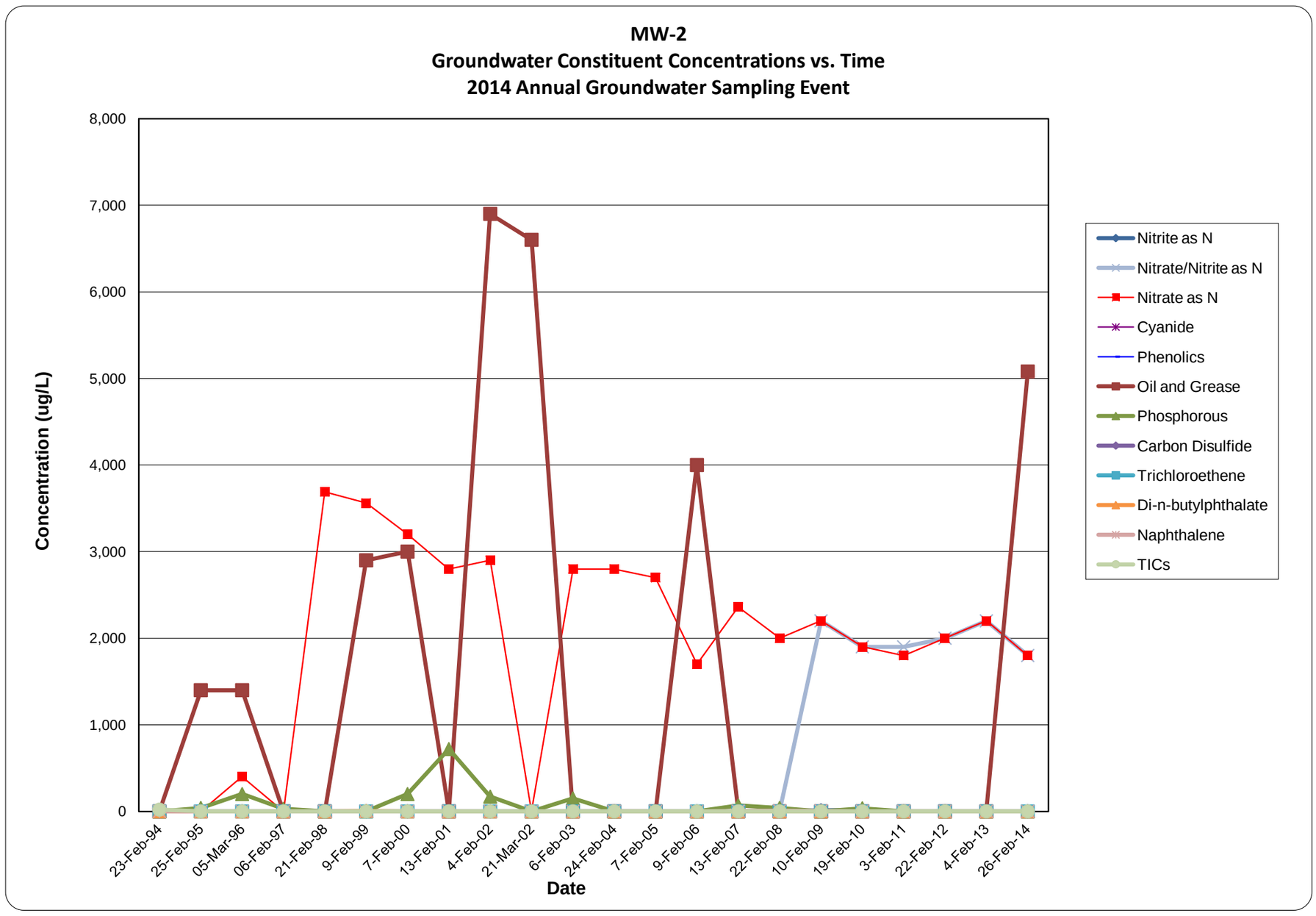

MW-1
Water Table Elevation vs. Time
2014 Annual Groundwater Sampling Event
Water-Table Elevation (ft msl)
345.40
345.20
345.00
344.80
344.60
344.40
344.20
344.00
343.80
343.60
Feb-94
Feb-95
Feb-96
Feb-97
Feb-98
Feb-99
Feb-00
Feb-01
Feb-02
Feb-03
Feb-04
Feb-05
Feb-06
Feb-07
Feb-08
Feb-09
Feb-10
Feb-11
Feb-12
Feb-13
Feb-14
Date
Water-Table Elevation (ft msl)

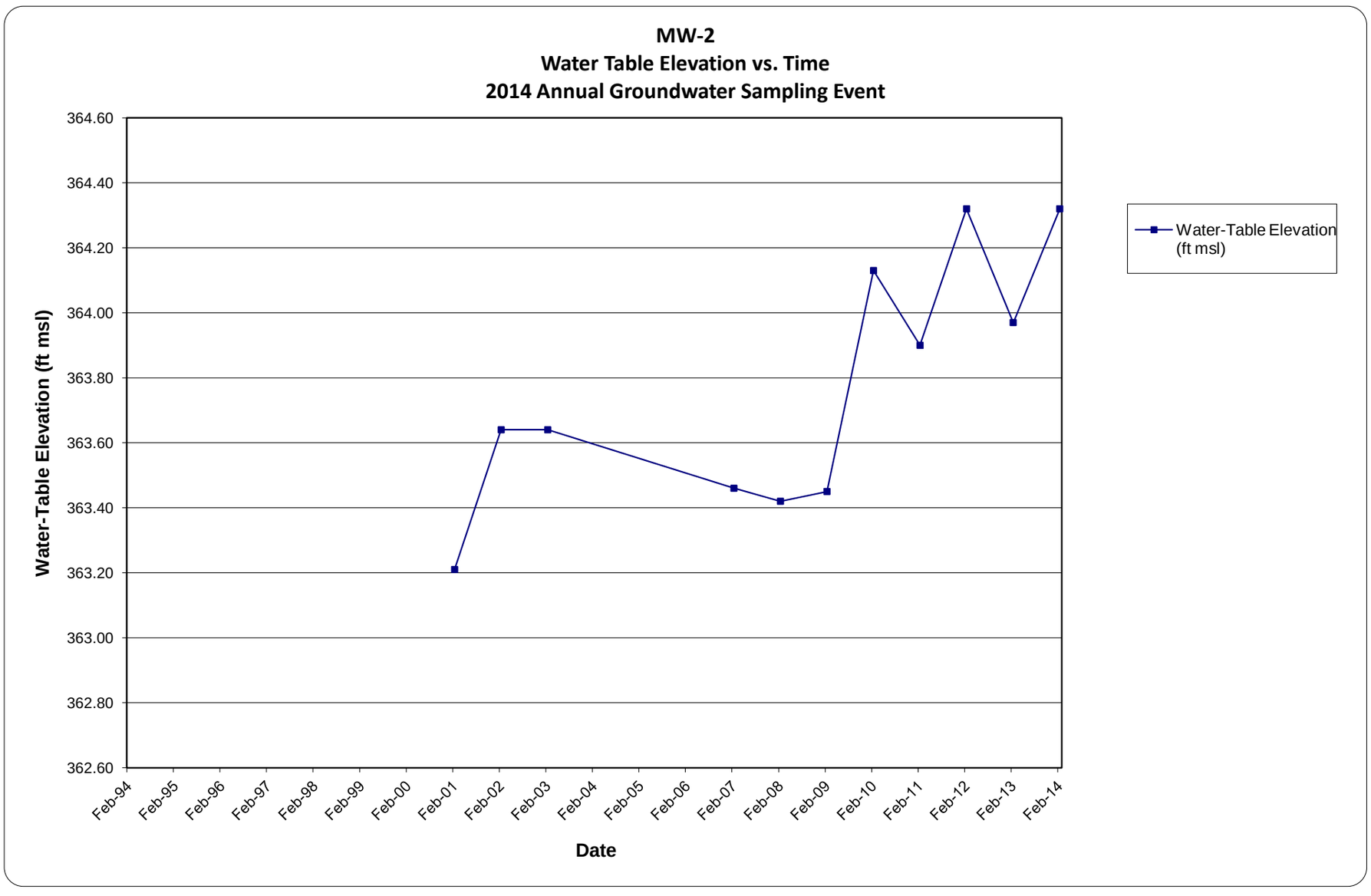

MW-1
Groundwater Constituent Concentrations vs. Time
2014 Annual Groundwater Sampling Event
Concentration (ug/L)
600000
500000
400000
300000
200000
100000
0
02-Feb-94
25-Feb-95
05-Mar-96
06-Feb-97
21-Feb-98
9-Feb-99
7-Feb-00
13-Feb-01
4-Feb-02
21-Mar-02
6-Feb-03
24-Feb-04
7-Feb-05
9-Feb-06
13-Feb-07
22-Feb-08
10-Feb-09
19-Feb-10
3-Feb-11
22-Feb-12
4-Feb-13
26-Feb-14
Date
Biochemical Oxygen Demand
Chemical Oxygen Demand
Total Kjeldahl Nitrogen (TKN)
Total Suspended Solids

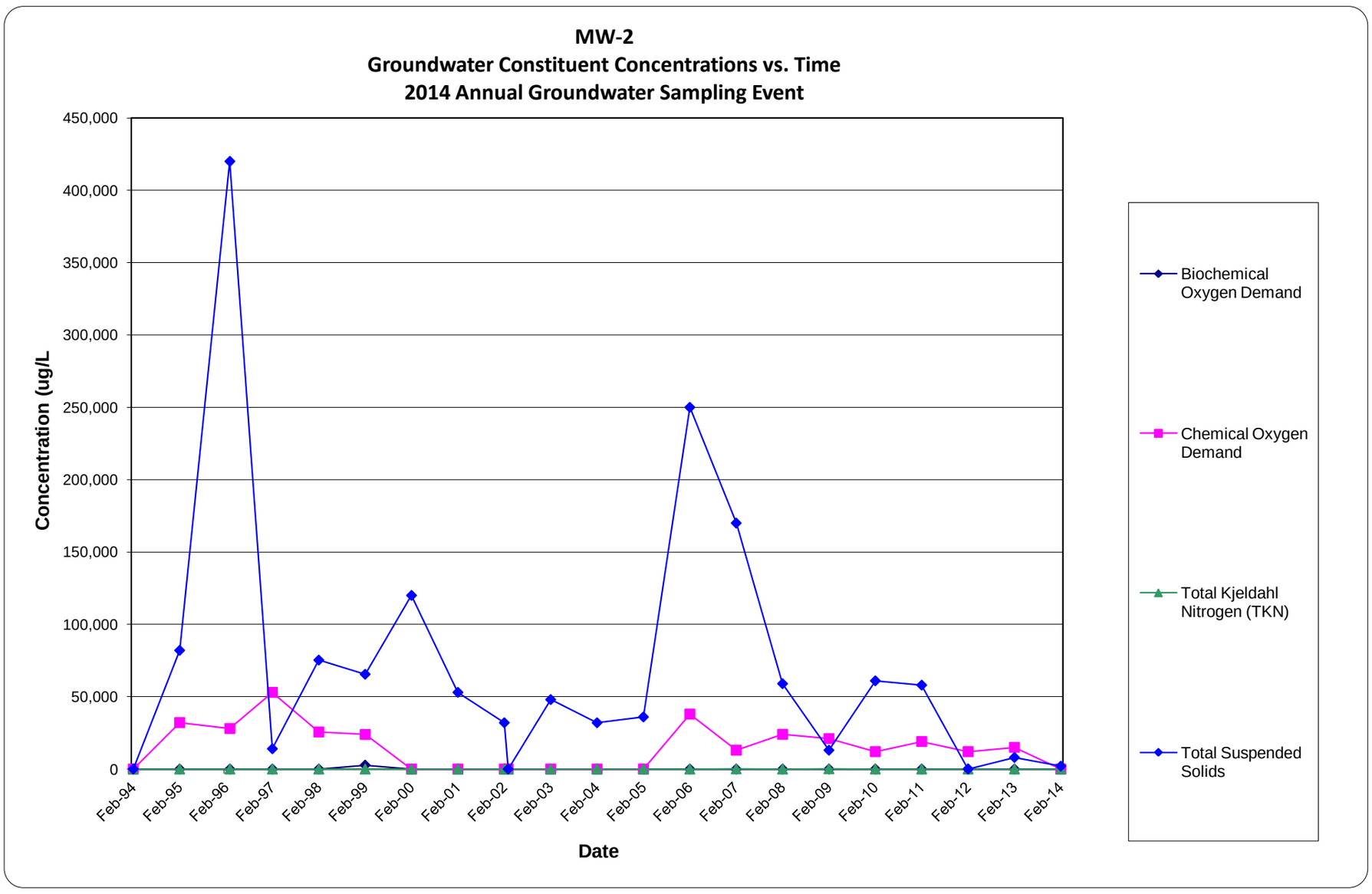

MW-1
Water Table Elevation vs. Time
2014 Annual Groundwater Sampling Event
Water-Table Elevation (ft msl)
345.40
345.20
345.00
344.80
344.60
344.40
344.20
344.00
343.80
343.60
Feb-94
Feb-95
Feb-96
Feb-97
Feb-98
Feb-99
Feb-00
Feb-01
Feb-02
Feb-03
Feb-04
Feb-05
Feb-06
Feb-07
Feb-08
Feb-09
Feb-10
Feb-11
Feb-12
Feb-13
Feb-14
Date
Water-Table Elevation (ft msl)

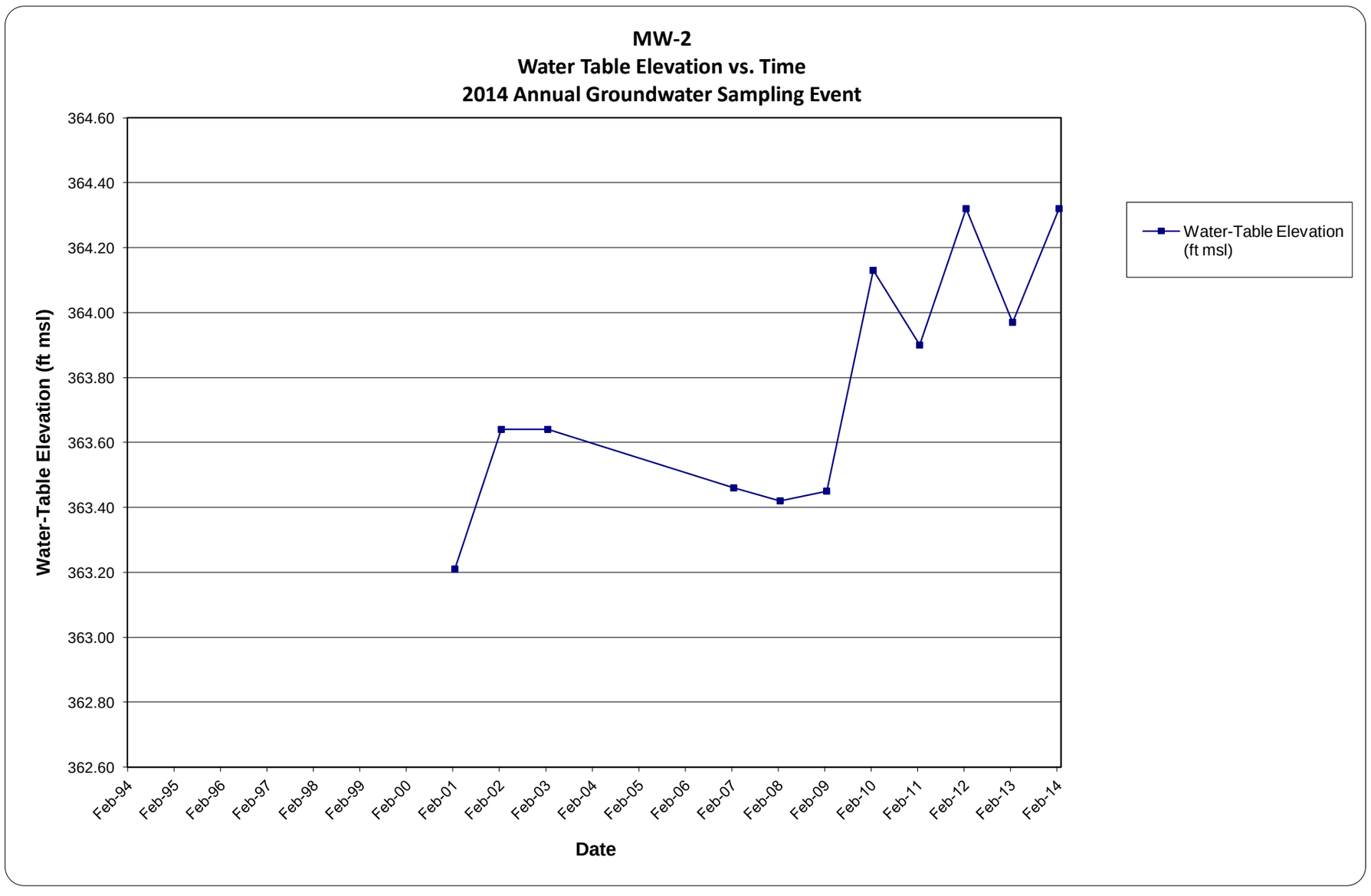

MW-2
Groundwater Metal Concentrations vs. Time
2014 Annual Groundwater Sampling Event
Concentration (ug/L)
1400
1200
1000
800
600
400
200
0
Feb-94
Feb-95
Mar-96
Feb-97
Feb-98
Feb-99
Feb-00
Feb-01
Feb-02
Mar-02
Feb-03
Feb-04
Feb-05
Feb-06
Feb-07
Feb-08
Feb-09
Feb-10
Feb-11
Feb-12
Feb-13
Feb-14
Date
Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Cobalt
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Tin
Vanadium
Zinc

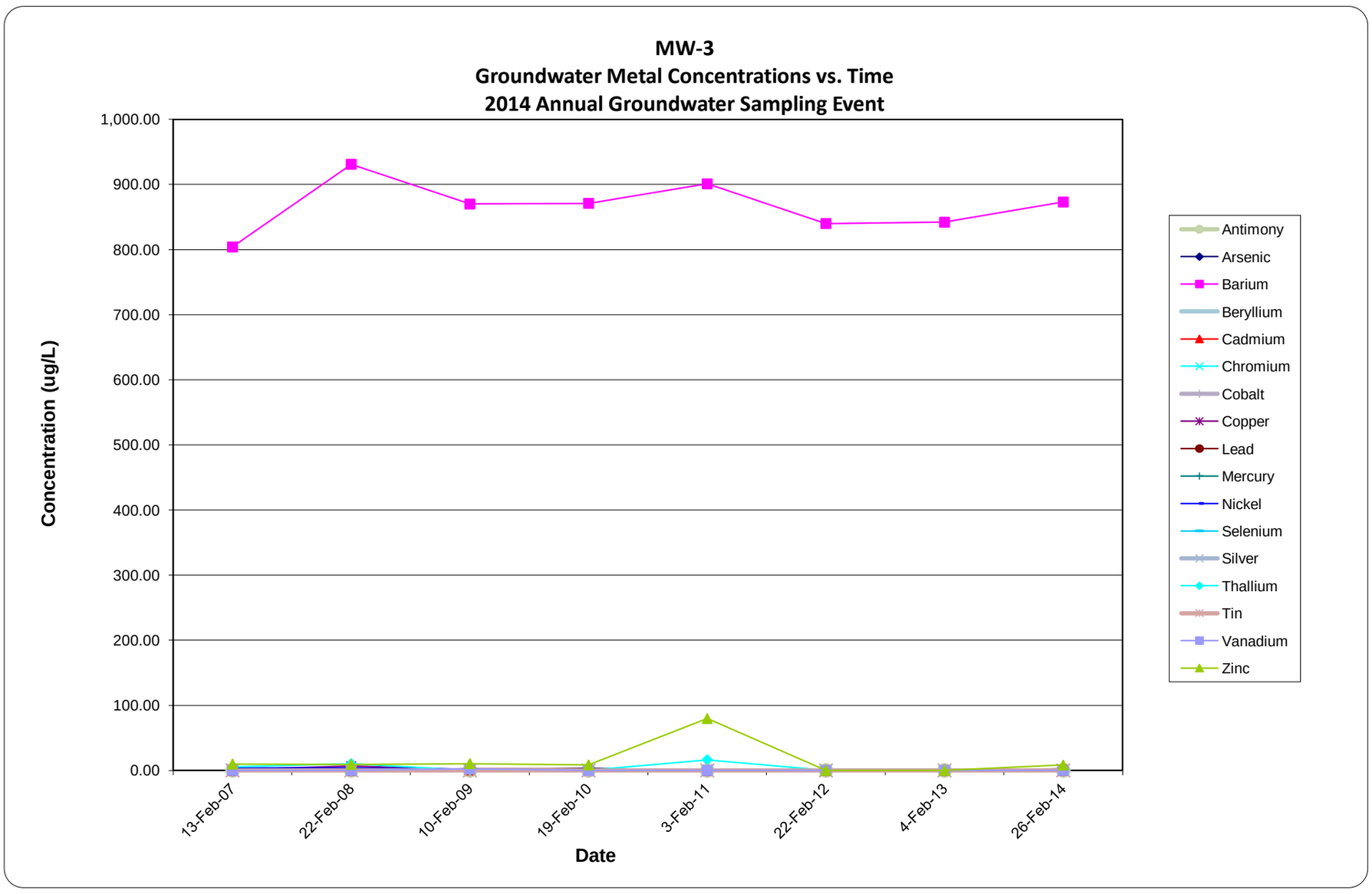

MW-2
Water Table Elevation vs. Time
2014 Annual Groundwater Sampling Event
Water-Table Elevation (ft msl)
364.60
364.40
364.20
364.00
363.80
363.60
363.40
363.20
363.00
362.80
362.60
Feb-94
Feb-95
Feb-96
Feb-97
Feb-98
Feb-99
Feb-00
Feb-01
Feb-02
Feb-03
Feb-04
Feb-05
Feb-06
Feb-07
Feb-08
Feb-09
Feb-10
Feb-11
Feb-12
Feb-13
Feb-14
Date
Water-Table Elevation (ft msl)

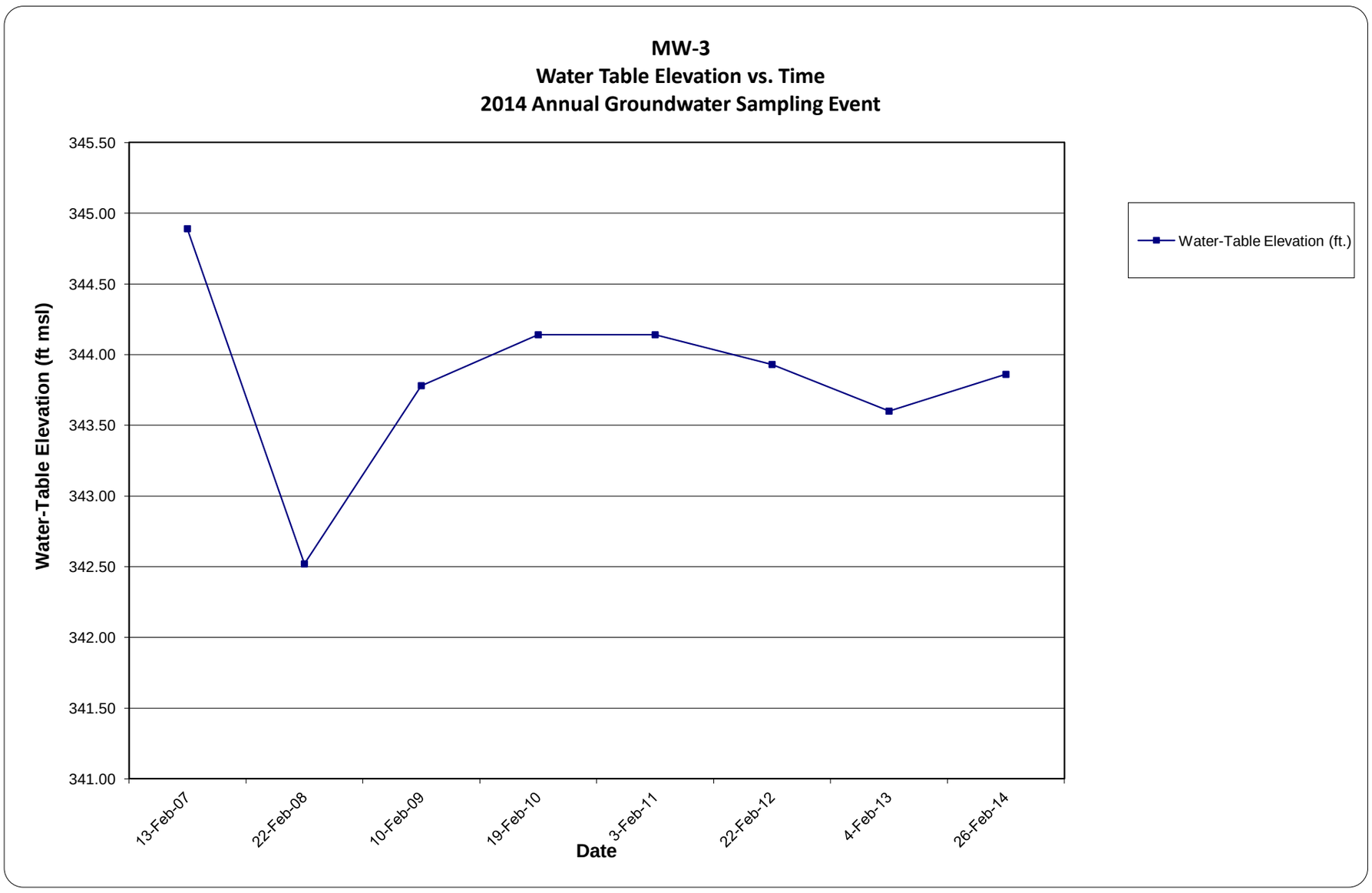

MW-2
Groundwater Constituent Concentrations vs. Time
2014 Annual Groundwater Sampling Event
Concentration (ug/L)
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
23-Feb-94
25-Feb-95
05-Mar-96
06-Feb-97
21-Feb-98
9-Feb-99
7-Feb-00
13-Feb-01
4-Feb-02
21-Mar-02
6-Feb-03
24-Feb-04
7-Feb-05
9-Feb-06
13-Feb-07
22-Feb-08
10-Feb-09
19-Feb-10
3-Feb-11
22-Feb-12
4-Feb-13
26-Feb-14
Date
Nitrite as N
Nitrate/Nitrite as N
Nitrate as N
Cyanide
Phenolics
Oil and Grease
Phosphorous
Carbon Disulfide
Trichloroethene
Di-n-butylphthalate
Naphthalene
TICs

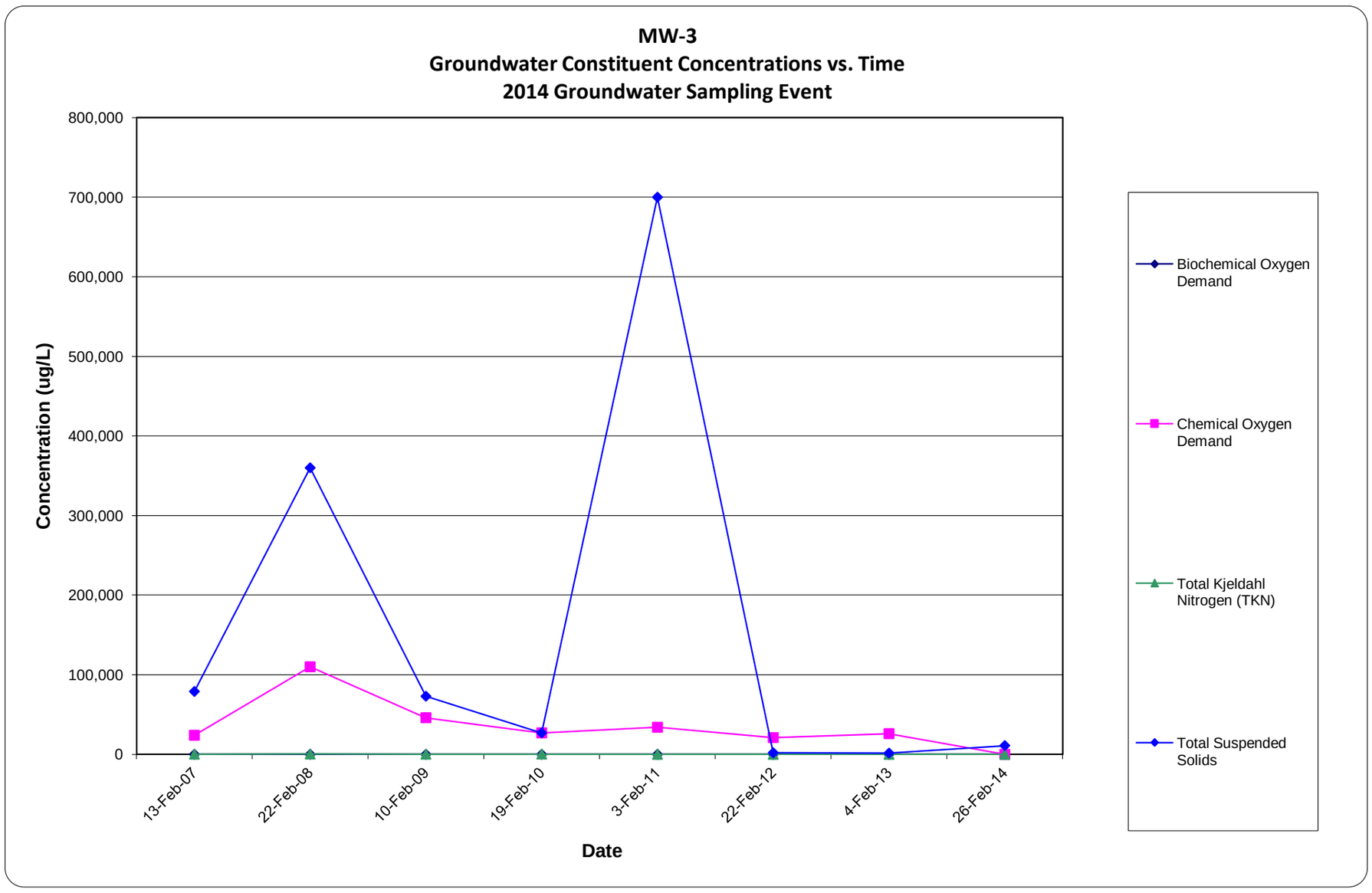

MW-2
Water Table Elevation vs. Time
2014 Annual Groundwater Sampling Event
Water-Table Elevation (ft msl)
364.60
364.40
364.20
364.00
363.80
363.60
363.40
363.20
363.00
362.80
362.60
Feb-94
Feb-95
Feb-96
Feb-97
Feb-98
Feb-99
Feb-00
Feb-01
Feb-02
Feb-03
Feb-04
Feb-05
Feb-06
Feb-07
Feb-08
Feb-09
Feb-10
Feb-11
Feb-12
Feb-13
Feb-14
Date
Water-Table Elevation (ft msl)

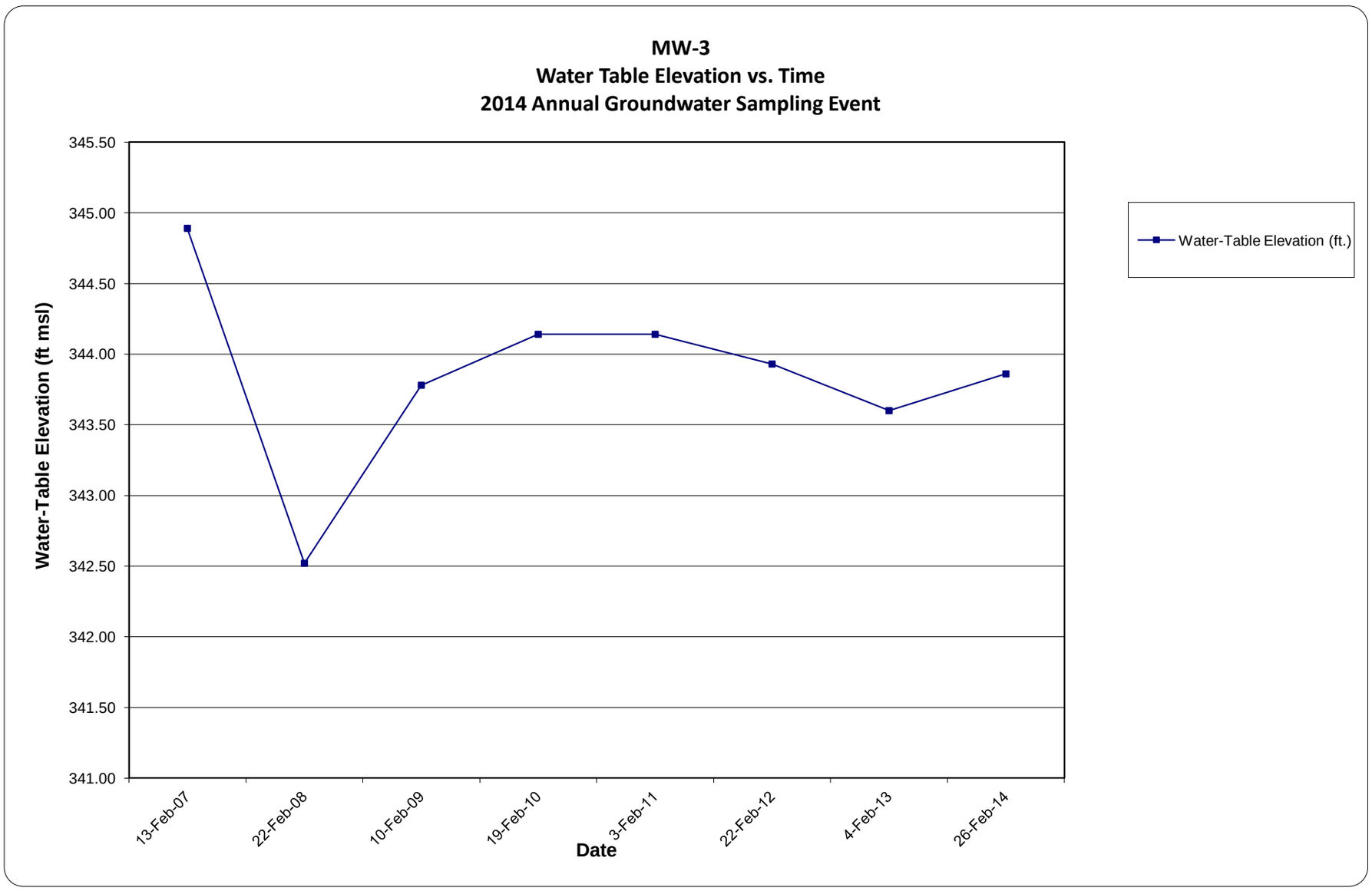

MW-2
Groundwater Constituent Concentrations vs. Time
2014 Annual Groundwater Sampling Event
Concentration (ug/L
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
Feb-94
Feb-95
Feb-96
Feb-97
Feb-98
Feb-99
Feb-00
Feb-01
Feb-02
Feb-03
Feb-04
Feb-05
Feb-06
Feb-07
Feb-08
Feb-09
Feb-10
Feb-11
Feb-12
Feb-13
Feb-14
Date
Biochemical Oxygen Demand
Chemical Oxygen Demand
Total Kjeldahl Nitrogen (TKN)
Total Suspended Solids

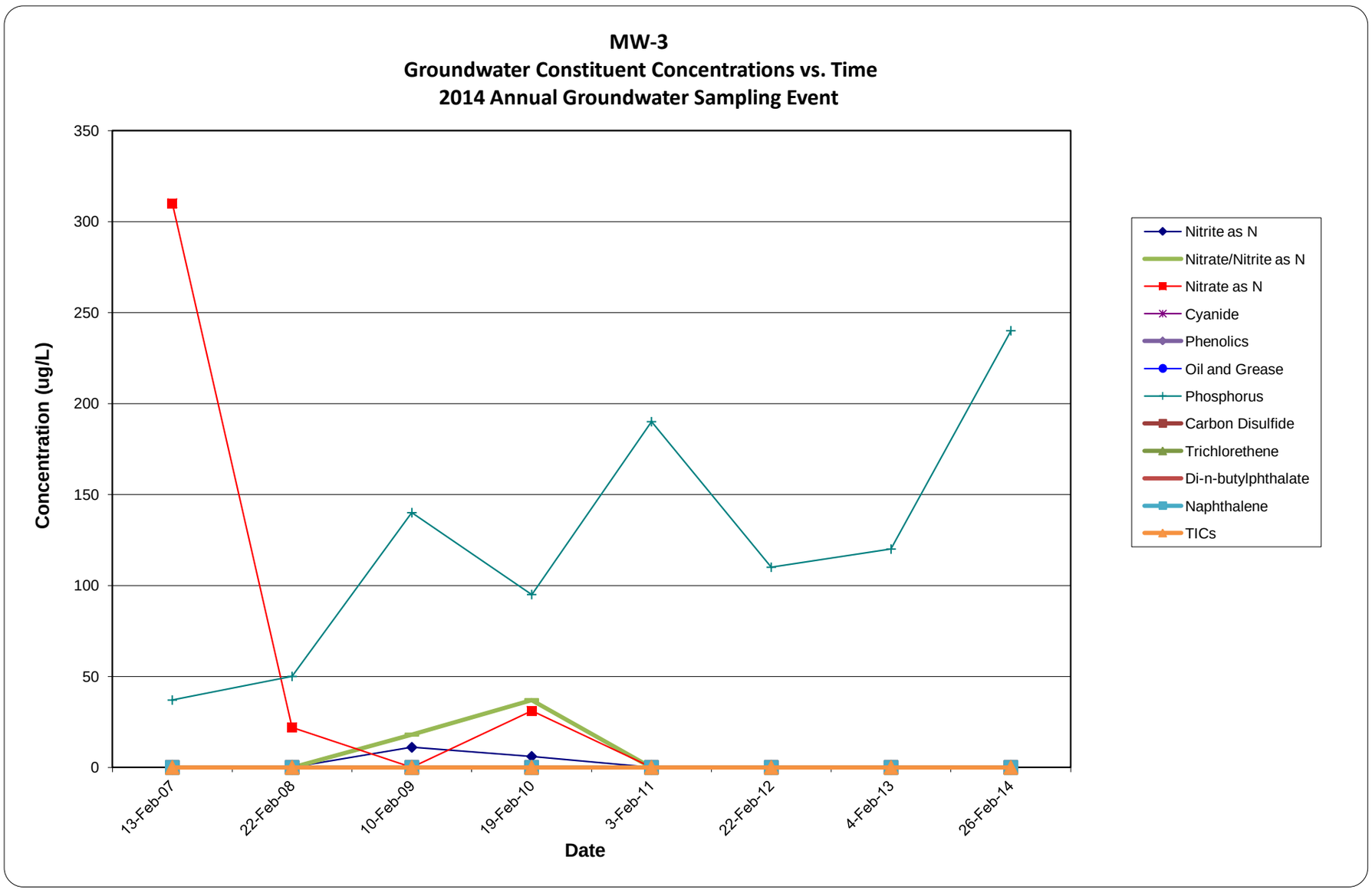

MW-2
Water Table Elevation vs. Time
2014 Annual Groundwater Sampling Event
Water-Table Elevation (ft msl)
364.60
364.40
364.20
364.00
363.80
363.60
363.40
363.20
363.00
362.80
362.60
Feb-94
Feb-95
Feb-96
Feb-97
Feb-98
Feb-99
Feb-00
Feb-01
Feb-02
Feb-03
Feb-04
Feb-05
Feb-06
Feb-07
Feb-08
Feb-09
Feb-10
Feb-11
Feb-12
Feb-13
Feb-14
Date
Water-Table Elevation (ft msl)

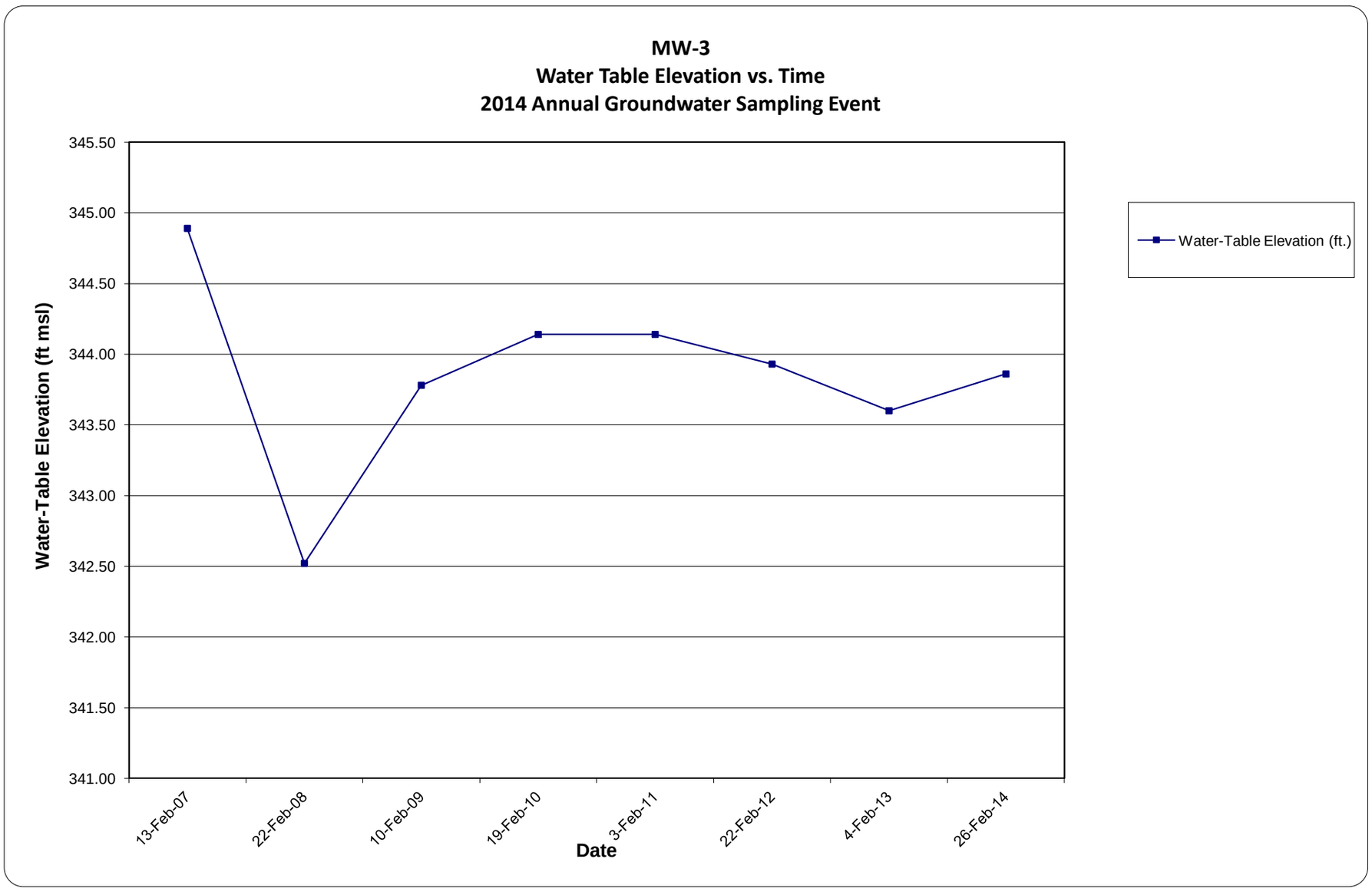

MW-3
Groundwater Metal Concentrations vs. Time
2014 Annual Groundwater Sampling Event
Concentration (ug/L)
1,000.00
900.00
800.00
700.00
600.00
500.00
400.00
300.00
200.00
100.00
0.00
13-Feb-07
22-Feb-08
10-Feb-09
19-Feb-10
3-Feb-11
22-Feb-12
4-Feb-13
26-Feb-14
Date
Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Cobalt
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Tin
Vanadium
Zinc


MW-3
Water Table Elevation vs. Time
2014 Annual Groundwater Sampling Event
Water-Table Elevation (ft msl)
345.50
345.00
344.50
344.00
343.50
343.00
342.50
342.00
341.50
341.00
13-Feb-07
22-Feb-08
10-Feb-09
19-Feb-10
3-Feb-11
22-Feb-12
4-Feb-13
26-Feb-14
Date
Water-Table Elevation (ft.)


MW-3
Groundwater Constituent Concentrations vs. Time
2014 Groundwater Sampling Event
Concentration (ug/L)
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
13-Feb-07
22-Feb-08
10-Feb-09
19-Feb-10
3-Feb-11
22-Feb-12
4-Feb-13
26-Feb-14
Date
Biochemical Oxygen Demand
Chemical Oxygen Demand
Total Kjeldahl Nitrogen (TKN)
Total Suspended Solids


MW-3
Water Table Elevation vs. Time
2014 Annual Groundwater Sampling Event
Water-Table Elevation (ft msl)
345.50
345.00
344.50
344.00
343.50
343.00
342.50
342.00
341.50
341.00
13-Feb-07
22-Feb-08
10-Feb-09
19-Feb-10
3-Feb-11
22-Feb-12
4-Feb-13
26-Feb-14
Date
Water-Table Elevation (ft.)


MW-3
Groundwater Constituent Concentrations vs. Time
2014 Annual Groundwater Sampling Event
Concentration (ug/L)
350
300
250
200
150
100
50
0
13-Feb-07
22-Feb-08
10-Feb-09
19-Feb-10
3-Feb-11
22-Feb-12
4-Feb-13
26-Feb-14
Date
Nitrite as N
Nitrate/Nitrite as N
Nitrate as N
Cyanide
Phenolics
Oil and Grease
Phosphorus
Carbon Disulfide
Trichlorethene
Di-n-butylphthalate
Naphthalene
TICs


MW-3
Water Table Elevation vs. Time
2014 Annual Groundwater Sampling Event
Water-Table Elevation (ft msl)
345.50
345.00
344.50
344.00
343.50
343.00
342.50
342.00
341.50
341.00
13-Feb-07
22-Feb-08
10-Feb-09
19-Feb-10
3-Feb-11
22-Feb-12
4-Feb-13
26-Feb-14
Date
Water-Table Elevation (ft.)