WASTE MANAGEMENT

WASTE MANAGEMENT
1850 Parkway Place
Suite 600
Marietta, GA 30067

November 9, 2012

NC Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center
Raleigh, North Carolina 27699-1646
Attn: Ms. Jaclynne Drummond

RE: Second Semiannual Groundwater Monitoring Report of 2012
Piedmont Landfill and Recycling Center, Kernersville, North Carolina
Permit Number 34-06

Dear Ms. Drummond:

Please find enclosed an electronic copy of the report documenting the Second Semiannual Detection Groundwater Monitoring Event of 2012 for the above-referenced facility. The report package includes an Environmental Monitoring Reporting Form and a CD with the complete report and laboratory data in electronic format. Samples were collected by Professional Technical Support Services (ProTech) on September 12-13, 2012. All samples were transported to the Test America, Inc. laboratory in Arvada, Colorado for analysis.

The Piedmont Landfill and Recycling Center is a closed municipal solid waste facility that last received waste in 2004 and entered into post closure care in accordance with Rule .1627(d) of the North Carolina Solid Waste Management Regulations (NCSWMR) as of October 29, 2004. All points at the facility are currently being monitored under a Detection Monitoring Program under Rule .1633 of the NCSWMR.

There were no confirmed statistically significant increases (SSIs) of any NCSWMR Appendix I or II constituents detected for this site during the second semiannual sampling event of 2012, with the exception of chromium in MW-03. An exceedance of NC2L groundwater standards for chromium was detected in well MW-03. An Alternate Source Demonstration for chromium in MW-03 was submitted on July 26, 2010 and was approved by DENR in a letter dated April 28, 2011.

A copy of this report will be placed into the site's operating record in accordance with Rule .1633(c)(1) of the NCSWMR. The next sampling event for the Piedmont Landfill and Recycling Center is scheduled for the first quarter of 2012. If you have any questions or concerns regarding this report, please call me at (770) 805-3366.

Sincerely,
Waste Management of Carolinas, Inc.

Alexander Lacsamana, P.E.
District Manager, Closed Sites

Enclosure

Copy: Steve Joyce, WMCI (w/o enclosure)
Van Burbach, Ph.D., P.G. – Joyce Engineering

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Waste Management of Carolinas, Inc.

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: G. Van Ness Burbach, Ph.D., P.G. Phone: (336) 323-0092

E-mail: vburbach@joyceengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Piedmont Landfill & Recycling Center	9901 Freeman Rd. Kernersville, NC	34-06	.1600	September 12-13, 2012

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☒ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Alexander Lacsamana, PE — District Manager - Closed Sites — (770) 590-2936

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

Alexander Lacsamana — 11/9/2012

Signature — Date

Affix NC Licensed/ Professional Geologist Seal

1850 Parkway Place, Suite 600, Marietta, GA 30067

Facility Representative Address

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

PREPARED FOR:

PIEDMONT LANDFILL & RECYCLING CENTER
9901 FREEMAN ROAD
KERNERSVILLE, NORTH CAROLINA 27284
PERMIT NO. 34-06

PIEDMONT LANDFILL & RECYCLING CENTER
PERMIT # 34-06

SECOND SEMIANNUAL
GROUNDWATER MONITORING REPORT OF 2012

NOVEMBER 2012

PREPARED BY:

2211 WEST MEADOWVIEW ROAD, SUITE 101
GREENSBORO, NORTH CAROLINA 27407
NC LICENSE NUMBER C-0782
PHONE: (336) 323-0092
FAX: (336) 323-0093

JOYCE PROJECT NO. 00392.1201.12.01

PIEDMONT LANDFILL & RECYCLING CENTER
PERMIT # 34-06

SECOND SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2012

NOVEMBER 2012

Prepared by:

JOYCE ENGINEERING

2211 West Meadowview Road, Suite 101
Greensboro, North Carolina 27407

Prepared by:

G. Van Ness Burbach, Ph.D., P.G.
NC License # 1349

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST G. VAN NESS BURBACH

JOYCE Project # 392.1201.12, Task 01

JOYCE ENGINEERING

2211 West Meadowview Rd.
Boone Building, Suite 101
Greensboro, NC 27407

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fax: 336/323-0093

www.JoyceEngineering.com

November 9, 2012

Alexander Lacsamana, PE
District Manager
Waste Management Closed Site Management Group
1850 Parkway Place, Suite 600
Marietta, GA 30067

RE: Second Semiannual Groundwater Monitoring Report of 2012
Piedmont Landfill & Recycling Center, Permit No. 34-06
JOYCE Project No. 392.1201.12, Task 01

Dear Mr. Lacsamana,

The purpose of this report is to provide you with a complete submittal to satisfy the groundwater monitoring compliance requirements for the closed Piedmont Landfill and Recycling Center's second semiannual groundwater monitoring event of 2012. This report may also serve to fulfill the notification requirements of Rule .1635 (g) of the North Carolina Solid Waste Management Regulations (NCSWMR). An Environmental Monitoring Reporting Form (EMRF) for this event is attached.

Sampling for the event was performed on September 12-13, 2012 by Pro-Tech. During this semiannual event, the site compliance wells and surface water monitoring points were sampled and analyzed for the NC Appendix I list of constituents. The site leachate was also sampled during this event for the required list of parameters. The laboratory analytical reports, field data logs, and chains of custody are provided on CD as *Appendix A* of this report.

MONITORING PROGRAM HISTORY:

The site entered into an Assessment Monitoring Program for background wells MW-01 and MW-06 and downgradient well MW-09 after volatile organic constituents were detected in MW-09 during the second semiannual event of 1996. Two organic compounds (chloroethane and 1,1-dichloroethane) were historically detected in monitoring well MW-09. Chloroethane exhibited a declining trend to the point where chloroethane was reported at less than the laboratory reporting limit during the January 1998 sampling event. The concentration of 1,1-dichloroethane in MW-09 also decreased below the laboratory reporting limit during the July 1998 sampling event. Following receipt of approval from the North Carolina Department of Environment and Natural Resources (DENR), all wells at the site reverted to the Detection Monitoring Program as of the second semiannual event in 1999, as allowed by 15A NCAC 13B.1634 (b).

Monitoring well MW-09 was replaced by well MW-09R in November 1999. No chloroethane concentration above the laboratory reporting limit or SWSL has been detected in MW-09R since the well was installed; however, 1,1-dichloroethane was detected in MW-09R at a concentration of 23 µg/L during the initial sampling event conducted in January 2000. The concentration of 1,1-dichlorothane remained relatively consistent until recently, ranging in concentration from 7 µg/L to 28 µg/L; however, it has not been detected at quantifiable levels Since September 2009. The constituent cis-1,2-dichloroethene was detected in MW-09R above the laboratory reporting limit for the first time during the July 2002 event at a concentration of 6.5 µg/L, and has been detected at concentrations ranging from 5-28 µg/L; however, it has not been detected at quantifiable levels since September 2009. The presence of organic constituents in MW-09 and MW-09R is attributed to landfill gas (LFG). The LFG extraction network was expanded in this area in January 2003, and the recent decrease in concentrations of organic constituents in this well is attributed to the control of LFG.

Due to the detection of 1,1-dichloroethane in MW-09R during the first semiannual event in 2000, the site performed Assessment Monitoring on wells MW-01, MW-06, and MW-09R through the second semiannual event of 2001. Following NC DENR approval of an August 20, 2001 request by Waste Management, MW-01 and MW-06 again reverted to Detection Monitoring. Monitoring well MW-09R was sampled for the NC Appendix I list of constituents plus detected Appendix II constituents during the first semiannual event each year and NC Appendix II list of constituents during the second semiannual event until the DENR approved reverting back to detection monitoring in a letter dated March 15, 2012.

In the September 2007 sampling event, benzene and vinyl chloride were detected in MW-02 at concentrations in exceedance of NC 2L groundwater standards. A resampling event confirmed the vinyl chloride, but not the benzene exceedance. An *Alternate Source Demonstration* (ASD) was submitted to DENR on March 14, 2008. The ASD demonstrated that the organic constituents detected in MW-02 are related to LFG impacts. In January 2008, improvements to the active LFG recovery system at the site were initiated to help mitigate these impacts. The ASD was accepted by DENR in a letter dated May 7, 2008 with the condition that if vinyl chloride and benzene concentrations in MW-02 are not sufficiently reduced by Spring 2009, MW-02 would enter Assessment Monitoring. Neither benzene nor vinyl chloride have had confirmed detections above the NC 2L standards in MW-02 since September 2008, so MW-02 remains in detection monitoring.

During the March 2010 sampling event, chromium was detected in MW-03 at a statistically significant concentration above the NC 2L groundwater standard. An ASD was submitted on July 26, 2010 for the chromium detected in MW-03 demonstrating that the chromium was naturally occurring in the soil and groundwater of the facility. DENR approved the ASD for chromium in MW-03 in a letter dated April 28, 2011.

STATISTICAL ANALYSIS:

The results of the statistical analysis of the September 2012 groundwater monitoring event are summarized below and in *Table 1*. The detailed statistical analyses for this event are provided on CD in *Appendix B*. The data for each inorganic parameter were statistically compared to historical

data for each well using an intrawell approach in accordance with the facility's statistical analysis plan, EPA guidance document ("*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance*" July 1992), and ASTM standard D6312-98 ("*Standard Guide for Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs*"). Statistical analyses for inorganic constituents were completed using the combined Shewhart-CUSUM control chart method. Organic constituents were directly compared to 15A NCAC 2L.0202 Groundwater Standards (NC 2L) or to the North Carolina Department of Environmental and Natural Resources (DENR) Solid Waste Section Limits (SWSL).

DETECTION MONITORING EVENT:

MW-01, MW-02, MW-03, MW-04, MW-04D, MW-05, MW-06, MW-07, MW-08, MW-9R, MW-10, MW-11, MW-11D, MW-12, MW-12D, and Surface Water Points: S-02, S-03, S-04, and S-05

During the second semiannual event of 2012, fifteen detection monitoring wells and four surface water points were sampled for the NC Appendix I list of constituents. The laboratory analytical reports, field data logs, and chains of custody for the September 2012 event are provided on CD in *Appendix A* of this report.

Organic Constituents

There were no quantified detections (above the SWSL) of any Appendix I organic constituents in any of these wells or surface water points during this event.

Inorganic Constituents

Inorganic constituents with quantified detections (above the SWSL) in one or more groundwater or surface water samples included barium in MW-02, zinc in MW-06 and MW-10 and chromium in MW-03. Chromium was detected above the NC 2L in MW-03. The chromium results in MW-03 also appear as a statistically significant increase (SSI) above background. An ASD for chromium in MW-03 was approved by DENR in a letter dated April 28, 2011. No other Appendix I inorganic constituents were detected above the SWSL or the NC 2L groundwater standards or groundwater protection standards (GWPS) in any detection monitoring well or surface water sample during the September 2012 sampling event.

SUBMITTAL OF LEACHATE ANALYTICAL DATA:

Appendix A to this report contains the leachate monitoring results for September 2012 on CD as requested in the Solid Waste Section memo dated November 13, 1996. The leachate was analyzed for NC Appendix I constituents, alkalinity, carbonate alkalinity, bicarbonate alkalinity, TDS, TOC, chloride, ammonia, sulfate, nitrate, phosphorus, BOD, COD, TSS, mercury, indicator metals (calcium, iron, magnesium, manganese, sodium, and potassium), and the required field parameters.

SUBMITTAL OF GROUNDWATER MAP AND FLOW CALCULATIONS:

Appendix C to this report contains the groundwater surface contour map and groundwater flow rates for this event. In summary, the September 2012 sampling results and groundwater flow

assessment indicate that the site monitoring network is effective in monitoring for the release of solid waste constituents to the environment.

CONCLUSIONS/CLOSURE:

There were no organic constituents with quantified detections (above the SWSL) reported for any monitoring wells or surface water points during the September 2012 monitoring event. Three inorganic constituents had quantified detections in some monitoring wells, and chromium was detected above the NC 2L groundwater standard in MW-03. The only SSI was the chromium detection in MW-03.

An ASD was submitted on July 26, 2010 for the exceedance of chromium detected in MW-03 during the March 2010 sampling event. On April 28, 2011, DENR approved the ASD for chromium in MW-03. MW-03 will continue to be monitored in accordance with the Detection Monitoring Program.

All site wells will continue to be monitored in accordance with the Detection Monitoring Program and surface water points will continue to be monitored as required by the DENR. The next monitoring event for the closed Piedmont Landfill and Recycling Center is scheduled for the first quarter of 2013. If you have any questions, feel free to contact me or Steve Cowie at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING

G. Van Ness Burbach, PhD, PG
Technical Consultant

Attachments: Environmental Monitoring Reporting Form
Table 1 – Summary of Detected Constituents – September 2012
Appendix A – Laboratory Analytical Reports (on CD)
Appendix B – Groundwater Statistical Analyses Report (on CD)
Appendix C – Groundwater Flow Regime Report

Copy: Steve Clarke, Waste Management

TABLE

TABLE 1
QUANTIFIED DETECTED APPENDIX I CONSTITUENTS

WELL ID	PARAMETER	RESULT	UNITS	SWSL	NC2L	LIMIT	SSI
3406-MW02	Barium	140	µg/L	100	700	1,143.3	No
3406-MW03	Chromium	12	µg/L	10	10	18.2	Yes*
3406-MW05	Zinc	11	µg/L	10	1000		
3406-MW10	Zinc	11	µg/L	10	1000		

Notes:

1. SWSL = NC DENR Solid Waste Section Limits.
2. NC2L = 15A-NCAC-2L.0202 Groundwater Standards.
3. LIMIT = Background limit based on intra-well statististics.
4. SSI = Apparent statistically-significant increase above background.
5. Estimated and blank-qualified detections are excluded.
6. Shaded values are greater than the NC2L Standard.
7. * Chromium in MW-03 has been addressed in an ASD approved by DENR

APPENDIX A

Laboratory Analytical Reports

Including Field Data Logs and Chains of Custody

ANALYTICAL REPORT

Job Number: 280-33242-1

Job Description: 134|Piedmont Landfill

For:
Waste Management
Southern Area
1000 Parkwood Circle, Suite 700
Atlanta, GA 30339

Attention: Mr. Al Lacsamana

Approved for release.
Betsy A Sara
Project Manager II
9/28/2012 12:52 PM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
09/28/2012

cc: Mr. Van Burbach

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE

Client: Waste Management

Project: 134|Piedmont Landfill

Report Number: 280-33242-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The reporting limits (RLs) in this report are North Carolina SWSLs.

Sample Receiving

The samples were received on 09/14/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 4.1C, 3.6C and 3.8C.

The APP II results for the sample MW-9R were not reported per the client's request on 09/26/2012.

Holding Times

The analysis for Metals Method 6010C and/or Method 6020A for samples 3406-MW12, 3406-MW04, 3406-MW04D, 3406-MW08, 3406-MW01, 3406-MW06, 340-MW12D, 3406-MW05, 3406-MW02 and 3406-MW11 was performed outside of the 72-hour hold due to more than half of the hold time expiring during transit. It is TestAmerica's policy to analyze all samples within holding times, but when samples are received with less than half the hold time remaining, this can not be guaranteed.

All other holding times were within established control limits.

Method Blanks

Methylene Chloride Method 8260B and Total Barium Method 6010C were detected in the Method Blanks below the project established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. The Method Blank data are included at the end of this report.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

Sample 3406-MW07 was selected to fulfill the laboratory batch quality control requirements for Method 8260B. Analysis of the laboratory generated MS/MSD for this sample exhibited recoveries of Ethylbenzene and Tetrachloroethene below the lower control limits indicating the possible presence of a matrix interference.

All other MS/MSD samples were within established control limits.

General Comments

The analysis for metals was performed at TestAmerica's Savannah facility.

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912.354.7858

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-33242-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-33242-1	**3406-MW09R**					
1,1-Dichloroethane		2.2	J	5.0	ug/L	8260B
Acetone		2.6	J	100	ug/L	8260B
cis-1,2-Dichloroethene		0.18	J	5.0	ug/L	8260B
280-33258-1	**3406-MW09R**					
Barium		12	J B	100	ug/L	6010C
Vanadium		8.6	J	25	ug/L	6010C
Copper		3.3	J	10	ug/L	6020A
Zinc		5.3	J	10	ug/L	6020A
280-33258-2	**3406-MW03**					
Barium		16	J B	100	ug/L	6010C
Chromium		12		10	ug/L	6010C
Vanadium		8.3	J	25	ug/L	6010C
Copper		0.53	J	10	ug/L	6020A
Selenium		0.24	J	10	ug/L	6020A
Zinc		3.6	J	10	ug/L	6020A
Well Elevation		770.08			ft/msl	Field Sampling
Depth to water		26.82			ft	Field Sampling
Groundwater Elevation		743.26			ft/msl	Field Sampling
Field pH		5.70			SU	Field Sampling
Field Conductivity		159			umhos/cm	Field Sampling
Field Temperature		15.7			Degrees C	Field Sampling
Field Turbidity		1.6			NTU	Field Sampling
Field Dissolved Oxygen		2.6			mg/L	Field Sampling
Field EH/ORP		65.0			millivolts	Field Sampling
280-33258-3	**3406-MW12**					
Barium		17	J H B	100	ug/L	6010C
Vanadium		2.9	J H	25	ug/L	6010C
Well Elevation		751.48			ft/msl	Field Sampling
Depth to water		6.91			ft	Field Sampling
Groundwater Elevation		744.57			ft/msl	Field Sampling
Field pH		5.99			SU	Field Sampling
Field Conductivity		152			umhos/cm	Field Sampling
Field Temperature		16.8			Degrees C	Field Sampling
Field Turbidity		7.8			NTU	Field Sampling
Field Dissolved Oxygen		0.9			mg/L	Field Sampling
Field EH/ORP		57.3			millivolts	Field Sampling

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-33242-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-33258-4	**3406-MW04**					
Barium		60	J H B	100	ug/L	6010C
Beryllium		0.46	J H	1.0	ug/L	6010C
Copper		0.32	J H	10	ug/L	6020A
Zinc		7.8	J H	10	ug/L	6020A
Well Elevation		756.92			ft/msl	Field Sampling
Depth to water		14.50			ft	Field Sampling
Groundwater Elevation		742.42			ft/msl	Field Sampling
Field pH		5.43			SU	Field Sampling
Field Conductivity		83			umhos/cm	Field Sampling
Field Temperature		17.7			Degrees C	Field Sampling
Field Turbidity		2.3			NTU	Field Sampling
Field Dissolved Oxygen		0.8			mg/L	Field Sampling
Field EH/ORP		81.8			millivolts	Field Sampling
280-33258-5	**3406-MW04D**					
Barium		23	J H B	100	ug/L	6010C
Chromium		7.4	J H	10	ug/L	6010C
Selenium		0.22	J H	10	ug/L	6020A
Zinc		3.6	J H	10	ug/L	6020A
Well Elevation		757.33			ft/msl	Field Sampling
Depth to water		14.98			ft	Field Sampling
Groundwater Elevation		742.35			ft/msl	Field Sampling
Field pH		6.12			SU	Field Sampling
Field Conductivity		106			umhos/cm	Field Sampling
Field Temperature		16.3			Degrees C	Field Sampling
Field Turbidity		16.7			NTU	Field Sampling
Field Dissolved Oxygen		1.3			mg/L	Field Sampling
Field EH/ORP		75.4			millivolts	Field Sampling
280-33258-6	**3406-MW08**					
Barium		99	J H B	100	ug/L	6010C
Well Elevation		748.95			ft/msl	Field Sampling
Depth to water		8.55			ft	Field Sampling
Groundwater Elevation		740.40			ft/msl	Field Sampling
Field pH		5.21			SU	Field Sampling
Field Conductivity		113			umhos/cm	Field Sampling
Field Temperature		18.4			Degrees C	Field Sampling
Field Turbidity		5.5			NTU	Field Sampling
Field Dissolved Oxygen		0.9			mg/L	Field Sampling
Field EH/ORP		86.2			millivolts	Field Sampling

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-33242-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-33258-7	**3406-MW01**					
Barium		47	J H B	100	ug/L	6010C
Copper		1.9	J H	10	ug/L	6020A
Zinc		5.7	J H	10	ug/L	6020A
Well Elevation		823.93			ft/msl	Field Sampling
Depth to water		44.68			ft	Field Sampling
Groundwater Elevation		779.25			ft/msl	Field Sampling
Field pH		5.89			SU	Field Sampling
Field Conductivity		68			umhos/cm	Field Sampling
Field Temperature		15.3			Degrees C	Field Sampling
Field Turbidity		1.0			NTU	Field Sampling
Field Dissolved Oxygen		1.5			mg/L	Field Sampling
Field EH/ORP		76.1			millivolts	Field Sampling
280-33258-8	**3406-MW06**					
Barium		36	J H B	100	ug/L	6010C
Beryllium		0.33	J H	1.0	ug/L	6010C
Copper		0.52	J H	10	ug/L	6020A
Zinc		12	H	10	ug/L	6020A
Well Elevation		800.87			ft/msl	Field Sampling
Depth to water		24.95			ft	Field Sampling
Groundwater Elevation		775.92			ft/msl	Field Sampling
Field pH		5.31			SU	Field Sampling
Field Conductivity		35			umhos/cm	Field Sampling
Field Temperature		15.5			Degrees C	Field Sampling
Field Turbidity		3.0			NTU	Field Sampling
Field Dissolved Oxygen		1.7			mg/L	Field Sampling
Field EH/ORP		87.9			millivolts	Field Sampling
280-33258-9	**3406-MW12D**					
Barium		4.2	J H B	100	ug/L	6010C
Well Elevation		751.48			ft/msl	Field Sampling
Depth to water		6.62			ft	Field Sampling
Groundwater Elevation		744.86			ft/msl	Field Sampling
Field pH		6.49			SU	Field Sampling
Field Conductivity		242			umhos/cm	Field Sampling
Field Temperature		15.5			Degrees C	Field Sampling
Field Turbidity		1.6			NTU	Field Sampling
Field Dissolved Oxygen		0.5			mg/L	Field Sampling
Field EH/ORP		54.7			millivolts	Field Sampling

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-33242-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-33258-10	**3406-MW05**					
Barium		34	J H B	100	ug/L	6010C
Nickel		6.6	J H	50	ug/L	6010C
Vanadium		5.6	J H	25	ug/L	6010C
Well Elevation		743.17			ft/msl	Field Sampling
Depth to water		5.78			ft	Field Sampling
Groundwater Elevation		737.39			ft/msl	Field Sampling
Field pH		5.81			SU	Field Sampling
Field Conductivity		332			umhos/cm	Field Sampling
Field Temperature		18.1			Degrees C	Field Sampling
Field Turbidity		1.5			NTU	Field Sampling
Field Dissolved Oxygen		0.6			mg/L	Field Sampling
Field EH/ORP		54.7			millivolts	Field Sampling
280-33258-11	**3406-MW02**					
1,1-Dichloroethane		0.22	J	5.0	ug/L	8260B
cis-1,2-Dichloroethene		0.16	J	5.0	ug/L	8260B
Barium		140	H B	100	ug/L	6010C
Beryllium		0.42	J H	1.0	ug/L	6010C
Selenium		0.46	J H	10	ug/L	6020A
Well Elevation		778.04			ft/msl	Field Sampling
Depth to water		30.03			ft	Field Sampling
Groundwater Elevation		748.01			ft/msl	Field Sampling
Field pH		5.34			SU	Field Sampling
Field Conductivity		139			umhos/cm	Field Sampling
Field Temperature		19.8			Degrees C	Field Sampling
Field Turbidity		2.5			NTU	Field Sampling
Field Dissolved Oxygen		1.1			mg/L	Field Sampling
Field EH/ORP		72.0			millivolts	Field Sampling

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-33242-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-33258-12	**3406-MW11**					
1,1-Dichloroethane		0.29	J	5.0	ug/L	8260B
cis-1,2-Dichloroethene		0.16	J	5.0	ug/L	8260B
Barium		59	J B	100	ug/L	6010C
Beryllium		0.34	J	1.0	ug/L	6010C
Zinc		8.4	J H	10	ug/L	6020A
Well Elevation		776.80			ft/msl	Field Sampling
Depth to water		29.98			ft	Field Sampling
Groundwater Elevation		746.82			ft/msl	Field Sampling
Field pH		5.45			SU	Field Sampling
Field Conductivity		161			umhos/cm	Field Sampling
Field Temperature		17.2			Degrees C	Field Sampling
Field Turbidity		3.9			NTU	Field Sampling
Field Dissolved Oxygen		1.2			mg/L	Field Sampling
Field EH/ORP		67.6			millivolts	Field Sampling
280-33258-13	**3406-MW11D**					
Barium		17	J B	100	ug/L	6010C
Chromium		4.4	J	10	ug/L	6010C
Vanadium		8.2	J	25	ug/L	6010C
Copper		0.35	J	10	ug/L	6020A
Zinc		6.7	J	10	ug/L	6020A
Well Elevation		776.36			ft/msl	Field Sampling
Depth to water		29.83			ft	Field Sampling
Groundwater Elevation		746.53			ft/msl	Field Sampling
Field pH		6.35			SU	Field Sampling
Field Conductivity		73			umhos/cm	Field Sampling
Field Temperature		16.9			Degrees C	Field Sampling
Field Turbidity		11.5			NTU	Field Sampling
Field Dissolved Oxygen		3.8			mg/L	Field Sampling
Field EH/ORP		70.9			millivolts	Field Sampling

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-33242-1

Lab Sample ID	Client Sample ID			Reporting		
Analyte		Result	Qualifier	Limit	Units	Method
280-33258-14	**3406-MW10**					
Barium		3.0	J B	100	ug/L	6010C
Copper		0.52	J	10	ug/L	6020A
Zinc		11		10	ug/L	6020A
Well Elevation		777.20			ft/msl	Field Sampling
Depth to water		32.80			ft	Field Sampling
Groundwater Elevation		744.40			ft/msl	Field Sampling
Field pH		5.67			SU	Field Sampling
Field Conductivity		109			umhos/cm	Field Sampling
Field Temperature		17.5			Degrees C	Field Sampling
Field Turbidity		4.1			NTU	Field Sampling
Field Dissolved Oxygen		3.3			mg/L	Field Sampling
Field EH/ORP		80.1			millivolts	Field Sampling
280-33258-15	**3406-MW07**					
Barium		1.5	J B	100	ug/L	6010C
Vanadium		5.3	J	25	ug/L	6010C
Copper		0.39	J	10	ug/L	6020A
Zinc		3.0	J	10	ug/L	6020A
Well Elevation		771.57			ft/msl	Field Sampling
Depth to water		26.87			ft	Field Sampling
Groundwater Elevation		744.70			ft/msl	Field Sampling
Field pH		5.83			SU	Field Sampling
Field Conductivity		134			umhos/cm	Field Sampling
Field Temperature		17.1			Degrees C	Field Sampling
Field Turbidity		3.4			NTU	Field Sampling
Field Dissolved Oxygen		2.4			mg/L	Field Sampling
Field EH/ORP		78.3			millivolts	Field Sampling
280-33258-16FB	**3406-01FB**					
Barium		1.6	J	100	ug/L	6010C
Field pH		6.88			SU	Field Sampling
Field Conductivity		5			umhos/cm	Field Sampling
Field Temperature		18.0			Degrees C	Field Sampling
Field Turbidity		0.0			NTU	Field Sampling
Field Dissolved Oxygen		2.7			mg/L	Field Sampling
Field EH/ORP		26.3			millivolts	Field Sampling

METHOD SUMMARY

Client: Waste Management

Job Number: 280-33242-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Field Sampling	TAL DEN	EPA Field Sampling	
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Extractable Metals	TAL SAV		SM 3030C
Metals (ICP/MS)	TAL SAV	SW846 6020A	
Preparation, Extractable Metals	TAL SAV		SM 3030C

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-33242-1

Method	Analyst	Analyst ID
SW846 8260B	Seifert, Judy	JS
SW846 6010C	Bland, Brian	BCB
SW846 6020A	Robertson, Bryn	BR
EPA Field Sampling	Field, Sampler	FS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-33242-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-33242-1	3406-MW09R	Water	09/13/2012 0936	09/14/2012 0900
280-33258-1	3406-MW09R	Water	09/13/2012 0936	09/14/2012 0930
280-33258-2	3406-MW03	Water	09/12/2012 1627	09/14/2012 0930
280-33258-3	3406-MW12	Water	09/12/2012 1045	09/14/2012 0930
280-33258-4	3406-MW04	Water	09/12/2012 1117	09/14/2012 0930
280-33258-5	3406-MW04D	Water	09/12/2012 1147	09/14/2012 0930
280-33258-6	3406-MW08	Water	09/12/2012 1220	09/14/2012 0930
280-33258-7	3406-MW01	Water	09/12/2012 0905	09/14/2012 0930
280-33258-8	3406-MW06	Water	09/12/2012 0935	09/14/2012 0930
280-33258-9	3406-MW12D	Water	09/12/2012 1012	09/14/2012 0930
280-33258-10	3406-MW05	Water	09/12/2012 1254	09/14/2012 0930
280-33258-11	3406-MW02	Water	09/12/2012 1335	09/14/2012 0930
280-33258-12	3406-MW11	Water	09/12/2012 1408	09/14/2012 0930
280-33258-13	3406-MW11D	Water	09/12/2012 1442	09/14/2012 0930
280-33258-14	3406-MW10	Water	09/12/2012 1520	09/14/2012 0930
280-33258-15	3406-MW07	Water	09/12/2012 1552	09/14/2012 0930
280-33258-16FB	3406-01FB	Water	09/13/2012 1010	09/14/2012 0930
280-33258-17TB	TRIP BLANK	Water	09/12/2012 0905	09/14/2012 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-33242-1

Client Matrix: Water

Date Sampled: 09/13/2012 0936

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8582.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1257			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1257				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	2.2	J	0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	2.6	J	1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	0.18	J	0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-33242-1

Client Matrix: Water

Date Sampled: 09/13/2012 0936

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8582.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1257			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1257				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-33258-2

Client Matrix: Water

Date Sampled: 09/12/2012 1627

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1634.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1156			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1156				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-33258-2

Client Matrix: Water

Date Sampled: 09/12/2012 1627

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1634.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1156			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1156				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	91		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-33258-3

Client Matrix: Water

Date Sampled: 09/12/2012 1045

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1640.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1353			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1353				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-33258-3

Client Matrix: Water

Date Sampled: 09/12/2012 1045

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1640.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1353			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1353				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-33258-4

Client Matrix: Water

Date Sampled: 09/12/2012 1117

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1641.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1413			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1413				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-33258-4

Client Matrix: Water

Date Sampled: 09/12/2012 1117

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1641.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1413			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1413				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-33258-5

Client Matrix: Water

Date Sampled: 09/12/2012 1147

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1642.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1432			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1432				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-33258-5

Client Matrix: Water

Date Sampled: 09/12/2012 1147

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1642.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1432			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1432				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	106		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-33258-6

Client Matrix: Water

Date Sampled: 09/12/2012 1220

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1643.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1452			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1452				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-33258-6

Client Matrix: Water

Date Sampled: 09/12/2012 1220

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1643.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1452			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1452				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	108		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-33258-7

Client Matrix: Water

Date Sampled: 09/12/2012 0905

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1644.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1511			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1511				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-33258-7

Client Matrix: Water

Date Sampled: 09/12/2012 0905

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1644.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1511			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1511				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
Toluene-d8 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-33258-8

Client Matrix: Water

Date Sampled: 09/12/2012 0935

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1645.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1530			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1530				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-33258-8

Client Matrix: Water

Date Sampled: 09/12/2012 0935

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1645.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1530			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1530				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-33258-9

Client Matrix: Water

Date Sampled: 09/12/2012 1012

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1646.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1550			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1550				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-33258-9

Client Matrix: Water

Date Sampled: 09/12/2012 1012

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1646.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1550			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1550				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-33258-10

Client Matrix: Water

Date Sampled: 09/12/2012 1254

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1647.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1609			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1609				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-33258-10

Client Matrix: Water

Date Sampled: 09/12/2012 1254

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1647.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1609			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1609				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
Toluene-d8 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-33258-11

Client Matrix: Water

Date Sampled: 09/12/2012 1335

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1648.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1629			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1629				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	0.22	J	0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	0.16	J	0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-33258-11

Client Matrix: Water

Date Sampled: 09/12/2012 1335

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1648.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1629			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1629				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-33258-12

Client Matrix: Water

Date Sampled: 09/12/2012 1408

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1649.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1648			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	0.29	J	0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	0.16	J	0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-33258-12

Client Matrix: Water

Date Sampled: 09/12/2012 1408

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1649.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1648			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1648				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
Toluene-d8 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-33258-13

Client Matrix: Water

Date Sampled: 09/12/2012 1442

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1650.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1708			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1708				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-33258-13

Client Matrix: Water

Date Sampled: 09/12/2012 1442

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1650.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1708			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1708				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
Toluene-d8 (Surr)	97		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-33258-14

Client Matrix: Water

Date Sampled: 09/12/2012 1520

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1651.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1727			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1727				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-33258-14

Client Matrix: Water

Date Sampled: 09/12/2012 1520

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1651.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1727			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1727				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
Toluene-d8 (Surr)	96		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	105		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-33258-15

Client Matrix: Water

Date Sampled: 09/12/2012 1552

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1637.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1255			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1255				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-33258-15

Client Matrix: Water

Date Sampled: 09/12/2012 1552

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1637.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1255			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1255				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	93		80 - 125
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-01FB**

Lab Sample ID: 280-33258-16FB

Client Matrix: Water

Date Sampled: 09/13/2012 1010

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8587.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1445			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1445				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-01FB**

Lab Sample ID: 280-33258-16FB

Client Matrix: Water

Date Sampled: 09/13/2012 1010

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8587.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1445			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1445				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 127
Toluene-d8 (Surr)	100		80 - 125
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	113		77 - 120

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-33258-17TB

Client Matrix: Water

Date Sampled: 09/12/2012 0905

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1655.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1844			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1844				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-33258-17TB

Client Matrix: Water

Date Sampled: 09/12/2012 0905

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	P1655.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1844			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1844				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120
Toluene-d8 (Surr)	95		80 - 125

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-33258-1

Client Matrix: Water

Date Sampled: 09/13/2012 0936

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1459			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	12	J B	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	8.6	J	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	147SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0455			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND		0.40	10
Copper	3.3	J	0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	5.3	J	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-33258-2

Client Matrix: Water

Date Sampled: 09/12/2012 1627

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1527			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	16	J B	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	12		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	8.3	J	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	150SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0517			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND		0.40	10
Copper	0.53	J	0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	0.24	J	0.21	10
Thallium	ND		0.10	5.5
Zinc	3.6	J	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-33258-3

Client Matrix: Water

Date Sampled: 09/12/2012 1045

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1539			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND	H	1.6	10
Barium	17	J H B	1.0	100
Beryllium	ND	H	0.25	1.0
Cobalt	ND	H	4.0	10
Chromium	ND	H	4.0	10
Nickel	ND	H	4.0	50
Lead	ND	H	3.4	10
Vanadium	2.9	J H	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	152SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0531			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND	H	0.40	10
Copper	ND	H	0.21	10
Cadmium	ND	H	0.20	1.0
Antimony	ND	H	0.99	6.0
Selenium	ND	H	0.21	10
Thallium	ND	H	0.10	5.5
Zinc	ND	H	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-33258-4

Client Matrix: Water

Date Sampled: 09/12/2012 1117

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1550			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND	H	1.6	10
Barium	60	J H B	1.0	100
Beryllium	0.46	J H	0.25	1.0
Cobalt	ND	H	4.0	10
Chromium	ND	H	4.0	10
Nickel	ND	H	4.0	50
Lead	ND	H	3.4	10
Vanadium	ND	H	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	154SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0546			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND	H	0.40	10
Copper	0.32	J H	0.21	10
Cadmium	ND	H	0.20	1.0
Antimony	ND	H	0.99	6.0
Selenium	ND	H	0.21	10
Thallium	ND	H	0.10	5.5
Zinc	7.8	J H	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-33258-5

Client Matrix: Water

Date Sampled: 09/12/2012 1147

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1624			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND	H	1.6	10
Barium	23	J H B	1.0	100
Beryllium	ND	H	0.25	1.0
Cobalt	ND	H	4.0	10
Chromium	7.4	J H	4.0	10
Nickel	ND	H	4.0	50
Lead	ND	H	3.4	10
Vanadium	ND	H	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	158SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0615			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND	H	0.40	10
Copper	ND	H	0.21	10
Cadmium	ND	H	0.20	1.0
Antimony	ND	H	0.99	6.0
Selenium	0.22	J H	0.21	10
Thallium	ND	H	0.10	5.5
Zinc	3.6	J H	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-33258-6

Client Matrix: Water

Date Sampled: 09/12/2012 1220

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1635			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND	H	1.6	10
Barium	99	J H B	1.0	100
Beryllium	ND	H	0.25	1.0
Cobalt	ND	H	4.0	10
Chromium	ND	H	4.0	10
Nickel	ND	H	4.0	50
Lead	ND	H	3.4	10
Vanadium	ND	H	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	160SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0630			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND	H	0.40	10
Copper	ND	H	0.21	10
Cadmium	ND	H	0.20	1.0
Antimony	ND	H	0.99	6.0
Selenium	ND	H	0.21	10
Thallium	ND	H	0.10	5.5
Zinc	ND	H	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-33258-7

Client Matrix: Water

Date Sampled: 09/12/2012 0905

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1647			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND	H	1.6	10
Barium	47	J H B	1.0	100
Beryllium	ND	H	0.25	1.0
Cobalt	ND	H	4.0	10
Chromium	ND	H	4.0	10
Nickel	ND	H	4.0	50
Lead	ND	H	3.4	10
Vanadium	ND	H	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	162SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0645			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND	H	0.40	10
Copper	1.9	J H	0.21	10
Cadmium	ND	H	0.20	1.0
Antimony	ND	H	0.99	6.0
Selenium	ND	H	0.21	10
Thallium	ND	H	0.10	5.5
Zinc	5.7	J H	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-33258-8

Client Matrix: Water

Date Sampled: 09/12/2012 0935

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1653			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND	H	1.6	10
Barium	36	J H B	1.0	100
Beryllium	0.33	J H	0.25	1.0
Cobalt	ND	H	4.0	10
Chromium	ND	H	4.0	10
Nickel	ND	H	4.0	50
Lead	ND	H	3.4	10
Vanadium	ND	H	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	163SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0652			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND	H	0.40	10
Copper	0.52	J H	0.21	10
Cadmium	ND	H	0.20	1.0
Antimony	ND	H	0.99	6.0
Selenium	ND	H	0.21	10
Thallium	ND	H	0.10	5.5
Zinc	12	H	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-33258-9

Client Matrix: Water

Date Sampled: 09/12/2012 1012

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1701			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND	H	1.6	10
Barium	4.2	J H B	1.0	100
Beryllium	ND	H	0.25	1.0
Cobalt	ND	H	4.0	10
Chromium	ND	H	4.0	10
Nickel	ND	H	4.0	50
Lead	ND	H	3.4	10
Vanadium	ND	H	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	164SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0659			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND	H	0.40	10
Copper	ND	H	0.21	10
Cadmium	ND	H	0.20	1.0
Antimony	ND	H	0.99	6.0
Selenium	ND	H	0.21	10
Thallium	ND	H	0.10	5.5
Zinc	ND	H	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-33258-10

Client Matrix: Water

Date Sampled: 09/12/2012 1254

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1707			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND	H	1.6	10
Barium	34	J H B	1.0	100
Beryllium	ND	H	0.25	1.0
Cobalt	ND	H	4.0	10
Chromium	ND	H	4.0	10
Nickel	6.6	J H	4.0	50
Lead	ND	H	3.4	10
Vanadium	5.6	J H	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	165SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0707			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND	H	0.40	10
Copper	ND	H	0.21	10
Cadmium	ND	H	0.20	1.0
Antimony	ND	H	0.99	6.0
Selenium	ND	H	0.21	10
Thallium	ND	H	0.10	5.5
Zinc	ND	H	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-33258-11

Client Matrix: Water

Date Sampled: 09/12/2012 1335

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1713			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND	H	1.6	10
Barium	140	H B	1.0	100
Beryllium	0.42	J H	0.25	1.0
Cobalt	ND	H	4.0	10
Chromium	ND	H	4.0	10
Nickel	ND	H	4.0	50
Lead	ND	H	3.4	10
Vanadium	ND	H	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	166SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0714			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND	H	0.40	10
Copper	ND	H	0.21	10
Cadmium	ND	H	0.20	1.0
Antimony	ND	H	0.99	6.0
Selenium	0.46	J H	0.21	10
Thallium	ND	H	0.10	5.5
Zinc	ND	H	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-33258-12

Client Matrix: Water

Date Sampled: 09/12/2012 1408

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1730			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	59	J B	1.0	100
Beryllium	0.34	J	0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	ND		2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	169SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0736			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND	H	0.40	10
Copper	ND	H	0.21	10
Cadmium	ND	H	0.20	1.0
Antimony	ND	H	0.99	6.0
Selenium	ND	H	0.21	10
Thallium	ND	H	0.10	5.5
Zinc	8.4	J H	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-33258-13

Client Matrix: Water

Date Sampled: 09/12/2012 1442

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1736			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	17	J B	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	4.4	J	4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	8.2	J	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	170SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0743			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND		0.40	10
Copper	0.35	J	0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	6.7	J	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-33258-14

Client Matrix: Water

Date Sampled: 09/12/2012 1520

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1742			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	3.0	J B	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	ND		2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	171SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0751			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND		0.40	10
Copper	0.52	J	0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	11		2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-33258-15

Client Matrix: Water

Date Sampled: 09/12/2012 1552

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1748			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	1.5	J B	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	5.3	J	2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249852	Lab File ID:	172SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0758			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND		0.40	10
Copper	0.39	J	0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	3.0	J	2.6	10

Client: Waste Management

Job Number: 280-33242-1

Client Sample ID: **3406-01FB**

Lab Sample ID: 280-33258-16FB

Client Matrix: Water

Date Sampled: 09/13/2012 1010

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1920			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1248				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	1.6	J	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	ND		2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249855	Lab File ID:	192SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 1025			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND		0.40	10
Copper	ND		0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	ND		2.6	10

Field Service / Mobile Lab

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-33258-2

Client Matrix: Water

Date Sampled: 09/12/2012 1627

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	770.08		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1627
Depth to water	26.82		ft	1.0	Field Sampling	280-137578	09/12/2012 1627
Groundwater Elevation	743.26		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1627
Field pH	5.70		SU	1.0	Field Sampling	280-137578	09/12/2012 1627
Field Conductivity	159		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1627
Field Temperature	15.7		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1627
Field Turbidity	1.6		NTU	1.0	Field Sampling	280-137578	09/12/2012 1627
Field Dissolved Oxygen	2.6		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1627
Field EH/ORP	65.0		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1627

Field Service / Mobile Lab

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-33258-3

Client Matrix: Water

Date Sampled: 09/12/2012 1045

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	751.48		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1045
Depth to water	6.91		ft	1.0	Field Sampling	280-137578	09/12/2012 1045
Groundwater Elevation	744.57		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1045
Field pH	5.99		SU	1.0	Field Sampling	280-137578	09/12/2012 1045
Field Conductivity	152		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1045
Field Temperature	16.8		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1045
Field Turbidity	7.8		NTU	1.0	Field Sampling	280-137578	09/12/2012 1045
Field Dissolved Oxygen	0.9		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1045
Field EH/ORP	57.3		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1045

Field Service / Mobile Lab

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-33258-4

Client Matrix: Water

Date Sampled: 09/12/2012 1117

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	756.92		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1117
Depth to water	14.50		ft	1.0	Field Sampling	280-137578	09/12/2012 1117
Groundwater Elevation	742.42		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1117
Field pH	5.43		SU	1.0	Field Sampling	280-137578	09/12/2012 1117
Field Conductivity	83		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1117
Field Temperature	17.7		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1117
Field Turbidity	2.3		NTU	1.0	Field Sampling	280-137578	09/12/2012 1117
Field Dissolved Oxygen	0.8		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1117
Field EH/ORP	81.8		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1117

Field Service / Mobile Lab

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-33258-5

Client Matrix: Water

Date Sampled: 09/12/2012 1147

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	757.33		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1147
Depth to water	14.98		ft	1.0	Field Sampling	280-137578	09/12/2012 1147
Groundwater Elevation	742.35		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1147
Field pH	6.12		SU	1.0	Field Sampling	280-137578	09/12/2012 1147
Field Conductivity	106		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1147
Field Temperature	16.3		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1147
Field Turbidity	16.7		NTU	1.0	Field Sampling	280-137578	09/12/2012 1147
Field Dissolved Oxygen	1.3		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1147
Field EH/ORP	75.4		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1147

Field Service / Mobile Lab

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-33258-6

Client Matrix: Water

Date Sampled: 09/12/2012 1220

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	748.95		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1220
Depth to water	8.55		ft	1.0	Field Sampling	280-137578	09/12/2012 1220
Groundwater Elevation	740.40		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1220
Field pH	5.21		SU	1.0	Field Sampling	280-137578	09/12/2012 1220
Field Conductivity	113		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1220
Field Temperature	18.4		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1220
Field Turbidity	5.5		NTU	1.0	Field Sampling	280-137578	09/12/2012 1220
Field Dissolved Oxygen	0.9		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1220
Field EH/ORP	86.2		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1220

Field Service / Mobile Lab

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-33258-7

Client Matrix: Water

Date Sampled: 09/12/2012 0905

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	823.93		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 0905
Depth to water	44.68		ft	1.0	Field Sampling	280-137578	09/12/2012 0905
Groundwater Elevation	779.25		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 0905
Field pH	5.89		SU	1.0	Field Sampling	280-137578	09/12/2012 0905
Field Conductivity	68		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 0905
Field Temperature	15.3		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 0905
Field Turbidity	1.0		NTU	1.0	Field Sampling	280-137578	09/12/2012 0905
Field Dissolved Oxygen	1.5		mg/L	1.0	Field Sampling	280-137578	09/12/2012 0905
Field EH/ORP	76.1		millivolts	1.0	Field Sampling	280-137578	09/12/2012 0905

Field Service / Mobile Lab

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-33258-8

Client Matrix: Water

Date Sampled: 09/12/2012 0935

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	800.87		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 0935
Depth to water	24.95		ft	1.0	Field Sampling	280-137578	09/12/2012 0935
Groundwater Elevation	775.92		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 0935
Field pH	5.31		SU	1.0	Field Sampling	280-137578	09/12/2012 0935
Field Conductivity	35		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 0935
Field Temperature	15.5		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 0935
Field Turbidity	3.0		NTU	1.0	Field Sampling	280-137578	09/12/2012 0935
Field Dissolved Oxygen	1.7		mg/L	1.0	Field Sampling	280-137578	09/12/2012 0935
Field EH/ORP	87.9		millivolts	1.0	Field Sampling	280-137578	09/12/2012 0935

Field Service / Mobile Lab

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-33258-9

Client Matrix: Water

Date Sampled: 09/12/2012 1012

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	751.48		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1012
Depth to water	6.62		ft	1.0	Field Sampling	280-137578	09/12/2012 1012
Groundwater Elevation	744.86		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1012
Field pH	6.49		SU	1.0	Field Sampling	280-137578	09/12/2012 1012
Field Conductivity	242		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1012
Field Temperature	15.5		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1012
Field Turbidity	1.6		NTU	1.0	Field Sampling	280-137578	09/12/2012 1012
Field Dissolved Oxygen	0.5		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1012
Field EH/ORP	54.7		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1012

Field Service / Mobile Lab

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-33258-10

Client Matrix: Water

Date Sampled: 09/12/2012 1254

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	743.17		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1254
Depth to water	5.78		ft	1.0	Field Sampling	280-137578	09/12/2012 1254
Groundwater Elevation	737.39		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1254
Field pH	5.81		SU	1.0	Field Sampling	280-137578	09/12/2012 1254
Field Conductivity	332		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1254
Field Temperature	18.1		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1254
Field Turbidity	1.5		NTU	1.0	Field Sampling	280-137578	09/12/2012 1254
Field Dissolved Oxygen	0.6		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1254
Field EH/ORP	54.7		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1254

Field Service / Mobile Lab

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-33258-11

Client Matrix: Water

Date Sampled: 09/12/2012 1335

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	778.04		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1335
Depth to water	30.03		ft	1.0	Field Sampling	280-137578	09/12/2012 1335
Groundwater Elevation	748.01		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1335
Field pH	5.34		SU	1.0	Field Sampling	280-137578	09/12/2012 1335
Field Conductivity	139		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1335
Field Temperature	19.8		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1335
Field Turbidity	2.5		NTU	1.0	Field Sampling	280-137578	09/12/2012 1335
Field Dissolved Oxygen	1.1		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1335
Field EH/ORP	72.0		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1335

Field Service / Mobile Lab

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-33258-12

Client Matrix: Water

Date Sampled: 09/12/2012 1408

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	776.80		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1408
Depth to water	29.98		ft	1.0	Field Sampling	280-137578	09/12/2012 1408
Groundwater Elevation	746.82		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1408
Field pH	5.45		SU	1.0	Field Sampling	280-137578	09/12/2012 1408
Field Conductivity	161		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1408
Field Temperature	17.2		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1408
Field Turbidity	3.9		NTU	1.0	Field Sampling	280-137578	09/12/2012 1408
Field Dissolved Oxygen	1.2		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1408
Field EH/ORP	67.6		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1408

Field Service / Mobile Lab

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-33258-13

Client Matrix: Water

Date Sampled: 09/12/2012 1442

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	776.36		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1442
Depth to water	29.83		ft	1.0	Field Sampling	280-137578	09/12/2012 1442
Groundwater Elevation	746.53		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1442
Field pH	6.35		SU	1.0	Field Sampling	280-137578	09/12/2012 1442
Field Conductivity	73		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1442
Field Temperature	16.9		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1442
Field Turbidity	11.5		NTU	1.0	Field Sampling	280-137578	09/12/2012 1442
Field Dissolved Oxygen	3.8		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1442
Field EH/ORP	70.9		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1442

Field Service / Mobile Lab

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-33258-14

Client Matrix: Water

Date Sampled: 09/12/2012 1520

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	777.20		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1520
Depth to water	32.80		ft	1.0	Field Sampling	280-137578	09/12/2012 1520
Groundwater Elevation	744.40		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1520
Field pH	5.67		SU	1.0	Field Sampling	280-137578	09/12/2012 1520
Field Conductivity	109		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1520
Field Temperature	17.5		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1520
Field Turbidity	4.1		NTU	1.0	Field Sampling	280-137578	09/12/2012 1520
Field Dissolved Oxygen	3.3		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1520
Field EH/ORP	80.1		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1520

Field Service / Mobile Lab

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-33258-15

Client Matrix: Water

Date Sampled: 09/12/2012 1552

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	771.57		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1552
Depth to water	26.87		ft	1.0	Field Sampling	280-137578	09/12/2012 1552
Groundwater Elevation	744.70		ft/msl	1.0	Field Sampling	280-137578	09/12/2012 1552
Field pH	5.83		SU	1.0	Field Sampling	280-137578	09/12/2012 1552
Field Conductivity	134		umhos/cm	1.0	Field Sampling	280-137578	09/12/2012 1552
Field Temperature	17.1		Degrees C	1.0	Field Sampling	280-137578	09/12/2012 1552
Field Turbidity	3.4		NTU	1.0	Field Sampling	280-137578	09/12/2012 1552
Field Dissolved Oxygen	2.4		mg/L	1.0	Field Sampling	280-137578	09/12/2012 1552
Field EH/ORP	78.3		millivolts	1.0	Field Sampling	280-137578	09/12/2012 1552

Field Service / Mobile Lab

Client Sample ID: **3406-01FB**

Lab Sample ID: 280-33258-16FB

Client Matrix: Water

Date Sampled: 09/13/2012 1010

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	6.88		SU	1.0	Field Sampling	280-137578	09/13/2012 1010
Field Conductivity	5		umhos/cm	1.0	Field Sampling	280-137578	09/13/2012 1010
Field Temperature	18.0		Degrees C	1.0	Field Sampling	280-137578	09/13/2012 1010
Field Turbidity	0.0		NTU	1.0	Field Sampling	280-137578	09/13/2012 1010
Field Dissolved Oxygen	2.7		mg/L	1.0	Field Sampling	280-137578	09/13/2012 1010
Field EH/ORP	26.3		millivolts	1.0	Field Sampling	280-137578	09/13/2012 1010

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-33242-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-33242-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-138855					
LCS 280-138855/4	Lab Control Sample	T	Water	8260B	
LCSD 280-138855/32	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-138855/5	Method Blank	T	Water	8260B	
280-33258-2	3406-MW03	T	Water	8260B	
280-33258-2MS	Matrix Spike	T	Water	8260B	
280-33258-2MSD	Matrix Spike Duplicate	T	Water	8260B	
280-33258-3	3406-MW12	T	Water	8260B	
280-33258-4	3406-MW04	T	Water	8260B	
280-33258-5	3406-MW04D	T	Water	8260B	
280-33258-6	3406-MW08	T	Water	8260B	
280-33258-7	3406-MW01	T	Water	8260B	
280-33258-8	3406-MW06	T	Water	8260B	
280-33258-9	3406-MW12D	T	Water	8260B	
280-33258-10	3406-MW05	T	Water	8260B	
280-33258-11	3406-MW02	T	Water	8260B	
280-33258-12	3406-MW11	T	Water	8260B	
280-33258-13	3406-MW11D	T	Water	8260B	
280-33258-14	3406-MW10	T	Water	8260B	
280-33258-15	3406-MW07	T	Water	8260B	
280-33258-15MS	Matrix Spike	T	Water	8260B	
280-33258-15MSD	Matrix Spike Duplicate	T	Water	8260B	
280-33258-17TB	TRIP BLANK	T	Water	8260B	
Analysis Batch:280-139086					
LCS 280-139086/4	Lab Control Sample	T	Water	8260B	
LCSD 280-139086/7	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-139086/5	Method Blank	T	Water	8260B	
280-33242-1	3406-MW09R	T	Water	8260B	
280-33242-1MS	Matrix Spike	T	Water	8260B	
280-33242-1MSD	Matrix Spike Duplicate	T	Water	8260B	
280-33258-16FB	3406-01FB	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-33242-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-249851					
LCS 680-249851/2-A	Lab Control Sample	T	Water	3030C	
MB 680-249851/1-A	Method Blank	T	Water	3030C	
280-33258-1	3406-MW09R	T	Water	3030C	
280-33258-1MS	Matrix Spike	T	Water	3030C	
280-33258-1MSD	Matrix Spike Duplicate	T	Water	3030C	
280-33258-2	3406-MW03	T	Water	3030C	
280-33258-3	3406-MW12	T	Water	3030C	
280-33258-4	3406-MW04	T	Water	3030C	
280-33258-5	3406-MW04D	T	Water	3030C	
280-33258-6	3406-MW08	T	Water	3030C	
280-33258-7	3406-MW01	T	Water	3030C	
280-33258-8	3406-MW06	T	Water	3030C	
280-33258-9	3406-MW12D	T	Water	3030C	
280-33258-10	3406-MW05	T	Water	3030C	
280-33258-11	3406-MW02	T	Water	3030C	
280-33258-12	3406-MW11	T	Water	3030C	
280-33258-13	3406-MW11D	T	Water	3030C	
280-33258-14	3406-MW10	T	Water	3030C	
280-33258-15	3406-MW07	T	Water	3030C	
280-33258-15MS	Matrix Spike	T	Water	3030C	
280-33258-15MSD	Matrix Spike Duplicate	T	Water	3030C	
Prep Batch: 680-249852					
LCS 680-249852/2-A	Lab Control Sample	T	Water	3030C	
MB 680-249852/1-A	Method Blank	T	Water	3030C	
280-33258-1	3406-MW09R	T	Water	3030C	
280-33258-1MS	Matrix Spike	T	Water	3030C	
280-33258-1MSD	Matrix Spike Duplicate	T	Water	3030C	
280-33258-2	3406-MW03	T	Water	3030C	
280-33258-3	3406-MW12	T	Water	3030C	
280-33258-4	3406-MW04	T	Water	3030C	
280-33258-5	3406-MW04D	T	Water	3030C	
280-33258-6	3406-MW08	T	Water	3030C	
280-33258-7	3406-MW01	T	Water	3030C	
280-33258-8	3406-MW06	T	Water	3030C	
280-33258-9	3406-MW12D	T	Water	3030C	
280-33258-10	3406-MW05	T	Water	3030C	
280-33258-11	3406-MW02	T	Water	3030C	
280-33258-12	3406-MW11	T	Water	3030C	
280-33258-13	3406-MW11D	T	Water	3030C	
280-33258-14	3406-MW10	T	Water	3030C	
280-33258-15	3406-MW07	T	Water	3030C	

Client: Waste Management

Job Number: 280-33242-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-249853					
LCS 680-249853/2-A	Lab Control Sample	T	Water	3030C	
MB 680-249853/1-A	Method Blank	T	Water	3030C	
280-33258-16FB	3406-01FB	T	Water	3030C	
280-33259-A-1-H MS	Matrix Spike	T	Water	3030C	
280-33259-A-1-I MSD	Matrix Spike Duplicate	T	Water	3030C	
Prep Batch: 680-249855					
LCS 680-249855/2-A	Lab Control Sample	T	Water	3030C	
MB 680-249855/1-A	Method Blank	T	Water	3030C	
280-33258-16FB	3406-01FB	T	Water	3030C	
280-33259-A-1-C MS	Matrix Spike	T	Water	3030C	
280-33259-A-1-D MSD	Matrix Spike Duplicate	T	Water	3030C	
Analysis Batch:680-250057					
LCS 680-249851/2-A	Lab Control Sample	T	Water	6010C	680-249851
MB 680-249851/1-A	Method Blank	T	Water	6010C	680-249851
LCS 680-249853/2-A	Lab Control Sample	T	Water	6010C	680-249853
MB 680-249853/1-A	Method Blank	T	Water	6010C	680-249853
280-33258-1	3406-MW09R	T	Water	6010C	680-249851
280-33258-1MS	Matrix Spike	T	Water	6010C	680-249851
280-33258-1MSD	Matrix Spike Duplicate	T	Water	6010C	680-249851
280-33258-2	3406-MW03	T	Water	6010C	680-249851
280-33258-3	3406-MW12	T	Water	6010C	680-249851
280-33258-4	3406-MW04	T	Water	6010C	680-249851
280-33258-5	3406-MW04D	T	Water	6010C	680-249851
280-33258-6	3406-MW08	T	Water	6010C	680-249851
280-33258-7	3406-MW01	T	Water	6010C	680-249851
280-33258-8	3406-MW06	T	Water	6010C	680-249851
280-33258-9	3406-MW12D	T	Water	6010C	680-249851
280-33258-10	3406-MW05	T	Water	6010C	680-249851
280-33258-11	3406-MW02	T	Water	6010C	680-249851
280-33258-12	3406-MW11	T	Water	6010C	680-249851
280-33258-13	3406-MW11D	T	Water	6010C	680-249851
280-33258-14	3406-MW10	T	Water	6010C	680-249851
280-33258-15	3406-MW07	T	Water	6010C	680-249851
280-33258-15MS	Matrix Spike	T	Water	6010C	680-249851
280-33258-15MSD	Matrix Spike Duplicate	T	Water	6010C	680-249851
280-33258-16FB	3406-01FB	T	Water	6010C	680-249853
280-33259-A-1-H MS	Matrix Spike	T	Water	6010C	680-249853
280-33259-A-1-I MSD	Matrix Spike Duplicate	T	Water	6010C	680-249853

Client: Waste Management

Job Number: 280-33242-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:680-250270					
LCS 680-249852/2-A	Lab Control Sample	T	Water	6020A	680-249852
MB 680-249852/1-A	Method Blank	T	Water	6020A	680-249852
LCS 680-249855/2-A	Lab Control Sample	T	Water	6020A	680-249855
MB 680-249855/1-A	Method Blank	T	Water	6020A	680-249855
280-33258-1	3406-MW09R	T	Water	6020A	680-249852
280-33258-1MS	Matrix Spike	T	Water	6020A	680-249852
280-33258-1MSD	Matrix Spike Duplicate	T	Water	6020A	680-249852
280-33258-2	3406-MW03	T	Water	6020A	680-249852
280-33258-3	3406-MW12	T	Water	6020A	680-249852
280-33258-4	3406-MW04	T	Water	6020A	680-249852
280-33258-5	3406-MW04D	T	Water	6020A	680-249852
280-33258-6	3406-MW08	T	Water	6020A	680-249852
280-33258-7	3406-MW01	T	Water	6020A	680-249852
280-33258-8	3406-MW06	T	Water	6020A	680-249852
280-33258-9	3406-MW12D	T	Water	6020A	680-249852
280-33258-10	3406-MW05	T	Water	6020A	680-249852
280-33258-11	3406-MW02	T	Water	6020A	680-249852
280-33258-12	3406-MW11	T	Water	6020A	680-249852
280-33258-13	3406-MW11D	T	Water	6020A	680-249852
280-33258-14	3406-MW10	T	Water	6020A	680-249852
280-33258-15	3406-MW07	T	Water	6020A	680-249852
280-33258-16FB	3406-01FB	T	Water	6020A	680-249855
280-33259-A-1-C MS	Matrix Spike	T	Water	6020A	680-249855
280-33259-A-1-D MSD	Matrix Spike Duplicate	T	Water	6020A	680-249855

Report Basis

T = Total

Client: Waste Management

Job Number: 280-33242-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Service / Mobile Lab					
Analysis Batch:280-137578					
280-33258-2	3406-MW03	T	Water	Field Sampling	
280-33258-3	3406-MW12	T	Water	Field Sampling	
280-33258-4	3406-MW04	T	Water	Field Sampling	
280-33258-5	3406-MW04D	T	Water	Field Sampling	
280-33258-6	3406-MW08	T	Water	Field Sampling	
280-33258-7	3406-MW01	T	Water	Field Sampling	
280-33258-8	3406-MW06	T	Water	Field Sampling	
280-33258-9	3406-MW12D	T	Water	Field Sampling	
280-33258-10	3406-MW05	T	Water	Field Sampling	
280-33258-11	3406-MW02	T	Water	Field Sampling	
280-33258-12	3406-MW11	T	Water	Field Sampling	
280-33258-13	3406-MW11D	T	Water	Field Sampling	
280-33258-14	3406-MW10	T	Water	Field Sampling	
280-33258-15	3406-MW07	T	Water	Field Sampling	
280-33258-16FB	3406-01FB	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-33242-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
280-33258-17	TRIP BLANK	101	96	104	95
MB 280-138855/5		96	95	101	95
MB 280-139086/5		115	100	114	102
LCS 280-138855/4		92	89	101	93
LCS 280-139086/4		111	95	107	98
LCSD 280-138855/32		97	88	100	93
LCSD 280-139086/7		116	100	111	96
280-33242-1 MS	3406-MW09R MS	109	85	100	92
280-33258-2 MS	3406-MW03 MS	99	89	104	94
280-33258-15 MS	3406-MW07 MS	102	88	105	93
280-33242-1 MSD	3406-MW09R MSD	106	90	101	92
280-33258-2 MSD	3406-MW03 MSD	99	88	104	93
280-33258-15 MSD	3406-MW07 MSD	104	91	105	93

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
BFB = 4-Bromofluorobenzene (Surr)	78-120
DBFM = Dibromofluoromethane (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-125

Client: Waste Management

Job Number: 280-33242-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec	DBFM %Rec
280-33242-1	3406-MW09R	106	97	93	104
280-33258-2	3406-MW03	99	95	91	102
280-33258-3	3406-MW12	102	94	94	106
280-33258-4	3406-MW04	102	94	93	106
280-33258-5	3406-MW04D	103	95	95	106
280-33258-6	3406-MW08	105	97	94	108
280-33258-7	3406-MW01	104	94	92	105
280-33258-8	3406-MW06	103	95	93	104
280-33258-9	3406-MW12D	103	96	94	103
280-33258-10	3406-MW05	101	94	93	104
280-33258-11	3406-MW02	105	95	95	105
280-33258-12	3406-MW11	99	94	92	102
280-33258-13	3406-MW11D	105	97	94	105
280-33258-14	3406-MW10	104	96	93	105
280-33258-15	3406-MW07	102	93	92	104
280-33258-16	3406-01FB	112	100	98	113

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120
DBFM = Dibromofluoromethane (Surr)	77-120

Client: Waste Management

Job Number: 280-33242-1

Method Blank - Batch: 280-138855

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-138855/5	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1627.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 0940	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 0940				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	0.483	J	0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50

Client: Waste Management

Job Number: 280-33242-1

Method Blank - Batch: 280-138855

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-138855/5	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1627.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 0940	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 0940				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	70 - 127
4-Bromofluorobenzene (Surr)	95	78 - 120
Dibromofluoromethane (Surr)	101	77 - 120
Toluene-d8 (Surr)	95	80 - 125

Client: Waste Management

Job Number: 280-33242-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-138855

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-138855/4	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1626.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 0920	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 0920				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-138855/32	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1628.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 0959	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 0959				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	90	97	70 - 135	8	20		
1,1-Dichloroethane	92	96	75 - 135	5	21	J	J
1,1-Dichloroethene	80	84	71 - 136	5	20	J	J
1,2-Dichloropropane	87	93	71 - 120	7	20		
1,3-Dichlorobenzene	83	86	74 - 135	3	20		
Benzene	86	91	74 - 135	6	20		
Bromodichloromethane	97	105	73 - 135	8	20		
Carbon tetrachloride	92	99	67 - 135	8	21		
Chlorobenzene	86	90	76 - 135	5	20		
Chloroform	98	103	76 - 120	5	20	J	
Ethylbenzene	79	85	72 - 120	7	26		
Methylene Chloride	104	111	54 - 141	7	20		
Tetrachloroethene	79	85	70 - 135	7	20		
Toluene	88	93	73 - 120	6	20		
trans-1,2-Dichloroethene	86	90	75 - 135	4	24	J	J
Trichloroethene	83	88	73 - 135	6	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	97	70 - 127
4-Bromofluorobenzene (Surr)	89	88	78 - 120
Dibromofluoromethane (Surr)	101	100	77 - 120
Toluene-d8 (Surr)	93	93	80 - 125

Client: Waste Management

Job Number: 280-33242-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-138855

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-138855/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-138855/32
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/25/2012 0920			Analysis Date:	09/25/2012 0959
Prep Date:	09/25/2012 0920			Prep Date:	09/25/2012 0959
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
1,1,1-Trichloroethane	5.00	5.00	4.50		4.87	
1,1-Dichloroethane	5.00	5.00	4.58	J	4.81	J
1,1-Dichloroethene	5.00	5.00	3.99	J	4.21	J
1,2-Dichloropropane	5.00	5.00	4.33		4.63	
1,3-Dichlorobenzene	5.00	5.00	4.14		4.28	
Benzene	5.00	5.00	4.29		4.54	
Bromodichloromethane	5.00	5.00	4.83		5.23	
Carbon tetrachloride	5.00	5.00	4.58		4.95	
Chlorobenzene	5.00	5.00	4.28		4.48	
Chloroform	5.00	5.00	4.89	J	5.13	
Ethylbenzene	5.00	5.00	3.94		4.24	
Methylene Chloride	5.00	5.00	5.19		5.57	
Tetrachloroethene	5.00	5.00	3.97		4.24	
Toluene	5.00	5.00	4.40		4.67	
trans-1,2-Dichloroethene	5.00	5.00	4.30	J	4.49	J
Trichloroethene	5.00	5.00	4.13		4.40	

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138855

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33258-2	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1635.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1216			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1216				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33258-2	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1636.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1235			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1235				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	95	89	70 - 135	7	20		
1,1-Dichloroethane	100	96	75 - 135	4	21	J	J
1,1-Dichloroethene	80	75	71 - 136	6	20	J	J
1,2-Dichloropropane	90	87	71 - 120	3	20		
1,3-Dichlorobenzene	83	78	74 - 135	7	20		
Benzene	88	83	74 - 135	6	20		
Bromodichloromethane	105	98	73 - 135	6	20		
Carbon tetrachloride	97	91	67 - 135	7	21		
Chlorobenzene	87	83	76 - 135	5	20		
Chloroform	104	99	76 - 120	5	20		J
Ethylbenzene	80	76	72 - 120	5	26		
Methylene Chloride	93	88	54 - 141	6	20		
Tetrachloroethene	83	78	70 - 135	7	20		
Toluene	90	86	73 - 120	5	20		
trans-1,2-Dichloroethene	86	82	75 - 135	4	24	J	J
Trichloroethene	86	81	73 - 135	6	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	99	70 - 127
4-Bromofluorobenzene (Surr)	89	88	78 - 120
Dibromofluoromethane (Surr)	104	104	77 - 120
Toluene-d8 (Surr)	94	93	80 - 125

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138855

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33258-15	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1638.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1314			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1314				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33258-15	Analysis Batch:	280-138855	Instrument ID:	VMS_P
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	P1639.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/25/2012 1334			Final Weight/Volume:	20 mL
Prep Date:	09/25/2012 1334				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	91	87	70 - 135	4	20		
1,1-Dichloroethane	90	88	75 - 135	2	21	J	J
1,1-Dichloroethene	73	71	71 - 136	3	20	J	J
1,2-Dichloropropane	87	85	71 - 120	2	20		
1,3-Dichlorobenzene	77	76	74 - 135	1	20		
Benzene	83	82	74 - 135	1	20		
Bromodichloromethane	98	98	73 - 135	1	20		
Carbon tetrachloride	89	84	67 - 135	5	21		
Chlorobenzene	81	79	76 - 135	4	20		
Chloroform	98	95	76 - 120	3	20	J	J
Ethylbenzene	74	71	72 - 120	4	26		F
Methylene Chloride	86	88	54 - 141	3	20		
Tetrachloroethene	74	69	70 - 135	7	20		F
Toluene	84	83	73 - 120	1	20		
trans-1,2-Dichloroethene	81	77	75 - 135	5	24	J	J
Trichloroethene	79	76	73 - 135	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	104	70 - 127
4-Bromofluorobenzene (Surr)	88	91	78 - 120
Dibromofluoromethane (Surr)	105	105	77 - 120
Toluene-d8 (Surr)	93	93	80 - 125

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138855

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33258-2	Units:	ug/L	MSD Lab Sample ID:	280-33258-2
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/25/2012 1216			Analysis Date:	09/25/2012 1235
Prep Date:	09/25/2012 1216			Prep Date:	09/25/2012 1235
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1-Trichloroethane	ND	5.00	5.00	4.77		4.47	
1,1-Dichloroethane	ND	5.00	5.00	4.99	J	4.81	J
1,1-Dichloroethene	ND	5.00	5.00	3.99	J	3.75	J
1,2-Dichloropropane	ND	5.00	5.00	4.50		4.36	
1,3-Dichlorobenzene	ND	5.00	5.00	4.15		3.89	
Benzene	ND	5.00	5.00	4.42		4.17	
Bromodichloromethane	ND	5.00	5.00	5.23		4.92	
Carbon tetrachloride	ND	5.00	5.00	4.86		4.53	
Chlorobenzene	ND	5.00	5.00	4.33		4.13	
Chloroform	ND	5.00	5.00	5.18		4.93	J
Ethylbenzene	ND	5.00	5.00	4.02		3.82	
Methylene Chloride	ND	5.00	5.00	4.66		4.40	
Tetrachloroethene	ND	5.00	5.00	4.16		3.89	
Toluene	ND	5.00	5.00	4.52		4.29	
trans-1,2-Dichloroethene	ND	5.00	5.00	4.28	J	4.10	J
Trichloroethene	ND	5.00	5.00	4.31		4.06	

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138855

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33258-15	Units:	ug/L	MSD Lab Sample ID:	280-33258-15
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/25/2012 1314			Analysis Date:	09/25/2012 1334
Prep Date:	09/25/2012 1314			Prep Date:	09/25/2012 1334
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1-Trichloroethane	ND	5.00	5.00	4.53		4.34	
1,1-Dichloroethane	ND	5.00	5.00	4.50	J	4.41	J
1,1-Dichloroethene	ND	5.00	5.00	3.63	J	3.53	J
1,2-Dichloropropane	ND	5.00	5.00	4.37		4.27	
1,3-Dichlorobenzene	ND	5.00	5.00	3.83		3.80	
Benzene	ND	5.00	5.00	4.13		4.09	
Bromodichloromethane	ND	5.00	5.00	4.89		4.91	
Carbon tetrachloride	ND	5.00	5.00	4.46		4.22	
Chlorobenzene	ND	5.00	5.00	4.07		3.93	
Chloroform	ND	5.00	5.00	4.90	J	4.77	J
Ethylbenzene	ND	5.00	5.00	3.68		3.54	F
Methylene Chloride	ND	5.00	5.00	4.28		4.41	
Tetrachloroethene	ND	5.00	5.00	3.69		3.45	F
Toluene	ND	5.00	5.00	4.18		4.13	
trans-1,2-Dichloroethene	ND	5.00	5.00	4.07	J	3.86	J
Trichloroethene	ND	5.00	5.00	3.94		3.81	

Client: Waste Management

Job Number: 280-33242-1

Method Blank - Batch: 280-139086

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-139086/5	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8578.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1129	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1129				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50

Client: Waste Management

Job Number: 280-33242-1

Method Blank - Batch: 280-139086

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-139086/5	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8578.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1129	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1129				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115	70 - 127
4-Bromofluorobenzene (Surr)	100	78 - 120
Dibromofluoromethane (Surr)	114	77 - 120
Toluene-d8 (Surr)	102	80 - 125

Client: Waste Management

Job Number: 280-33242-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-139086/4	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8576.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1045	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1045				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-139086/7	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8577.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1107	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1107				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	107	110	70 - 135	2	20		
1,1-Dichloroethane	100	99	75 - 135	0	21	J	J
1,1-Dichloroethene	105	103	71 - 136	1	20		
1,2-Dichloropropane	91	94	71 - 120	3	20		
1,3-Dichlorobenzene	93	88	74 - 135	5	20		
Benzene	97	93	74 - 135	5	20		
Bromodichloromethane	109	106	73 - 135	3	20		
Carbon tetrachloride	110	112	67 - 135	2	21		
Chlorobenzene	96	87	76 - 135	9	20		
Chloroform	110	107	76 - 120	3	20		
Ethylbenzene	95	87	72 - 120	10	26		
Methylene Chloride	122	110	54 - 141	10	20		
Tetrachloroethene	99	87	70 - 135	13	20		
Toluene	99	97	73 - 120	2	20		
trans-1,2-Dichloroethene	103	103	75 - 135	0	24		
Trichloroethene	96	96	73 - 135	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111	116	70 - 127
4-Bromofluorobenzene (Surr)	95	100	78 - 120
Dibromofluoromethane (Surr)	107	111	77 - 120
Toluene-d8 (Surr)	98	96	80 - 125

Client: Waste Management

Job Number: 280-33242-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-139086/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-139086/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/26/2012 1045			Analysis Date:	09/26/2012 1107
Prep Date:	09/26/2012 1045			Prep Date:	09/26/2012 1107
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
1,1,1-Trichloroethane	5.00	5.00	5.37		5.49	
1,1-Dichloroethane	5.00	5.00	4.99	J	4.97	J
1,1-Dichloroethene	5.00	5.00	5.23		5.17	
1,2-Dichloropropane	5.00	5.00	4.56		4.71	
1,3-Dichlorobenzene	5.00	5.00	4.65		4.42	
Benzene	5.00	5.00	4.85		4.64	
Bromodichloromethane	5.00	5.00	5.44		5.30	
Carbon tetrachloride	5.00	5.00	5.49		5.62	
Chlorobenzene	5.00	5.00	4.78		4.36	
Chloroform	5.00	5.00	5.50		5.35	
Ethylbenzene	5.00	5.00	4.77		4.33	
Methylene Chloride	5.00	5.00	6.10		5.52	
Tetrachloroethene	5.00	5.00	4.96		4.34	
Toluene	5.00	5.00	4.97		4.85	
trans-1,2-Dichloroethene	5.00	5.00	5.14		5.14	
Trichloroethene	5.00	5.00	4.81		4.79	

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33242-1	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8583.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1319			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1319				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33242-1	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8584.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1340			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1340				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	101	102	70 - 135	1	20		
1,1-Dichloroethane	94	99	75 - 135	4	21		
1,1-Dichloroethene	98	98	71 - 136	1	20	J	J
1,2-Dichloropropane	92	90	71 - 120	3	20		
1,3-Dichlorobenzene	90	87	74 - 135	3	20		
Benzene	92	92	74 - 135	0	20		
Bromodichloromethane	105	100	73 - 135	5	20		
Carbon tetrachloride	104	103	67 - 135	1	21		
Chlorobenzene	94	90	76 - 135	4	20		
Chloroform	108	103	76 - 120	5	20		
Ethylbenzene	89	89	72 - 120	0	26		
Methylene Chloride	92	89	54 - 141	4	20		
Tetrachloroethene	89	92	70 - 135	3	20		
Toluene	94	89	73 - 120	5	20		
trans-1,2-Dichloroethene	100	100	75 - 135	1	24		J
Trichloroethene	95	92	73 - 135	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109	106	70 - 127
4-Bromofluorobenzene (Surr)	85	90	78 - 120
Dibromofluoromethane (Surr)	100	101	77 - 120
Toluene-d8 (Surr)	92	92	80 - 125

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33242-1	Units: ug/L		MSD Lab Sample ID:	280-33242-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/26/2012 1319			Analysis Date:	09/26/2012 1340
Prep Date:	09/26/2012 1319			Prep Date:	09/26/2012 1340
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1-Trichloroethane	ND		5.00	5.00	5.03		5.08	
1,1-Dichloroethane	2.2	J	5.00	5.00	6.85		7.12	
1,1-Dichloroethene	ND		5.00	5.00	4.88	J	4.91	J
1,2-Dichloropropane	ND		5.00	5.00	4.62		4.48	
1,3-Dichlorobenzene	ND		5.00	5.00	4.49		4.36	
Benzene	ND		5.00	5.00	4.59		4.60	
Bromodichloromethane	ND		5.00	5.00	5.23		4.99	
Carbon tetrachloride	ND		5.00	5.00	5.19		5.14	
Chlorobenzene	ND		5.00	5.00	4.70		4.51	
Chloroform	ND		5.00	5.00	5.38		5.13	
Ethylbenzene	ND		5.00	5.00	4.44		4.43	
Methylene Chloride	ND		5.00	5.00	4.61		4.44	
Tetrachloroethene	ND		5.00	5.00	4.47		4.61	
Toluene	ND		5.00	5.00	4.71		4.47	
trans-1,2-Dichloroethene	ND		5.00	5.00	5.02		4.98	J
Trichloroethene	ND		5.00	5.00	4.74		4.58	

Client: Waste Management

Job Number: 280-33242-1

Method Blank - Batch: 680-249851

Method: 6010C
Preparation: 3030C

Lab Sample ID:	MB 680-249851/1-A	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1431	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Silver	ND		1.6	10
Barium	6.56	J	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	ND		2.4	25

Lab Control Sample - Batch: 680-249851

Method: 6010C
Preparation: 3030C

Lab Sample ID:	LCS 680-249851/2-A	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1437	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	52.0	104	75 - 125	
Barium	100	99.1	99	75 - 125	J
Beryllium	50.0	51.3	103	75 - 125	
Cobalt	50.0	50.9	102	75 - 125	
Chromium	100	99.8	100	75 - 125	
Nickel	100	104	104	75 - 125	
Lead	50.0	50.2	100	75 - 125	
Vanadium	100	100	100	75 - 125	

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249851

Method: 6010C
Preparation: 3030C

MS Lab Sample ID:	280-33258-1	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1516			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33258-1	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1522			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1148				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	104	106	75 - 125	2	20		
Barium	98	100	75 - 125	2	20		
Beryllium	103	105	75 - 125	2	20		
Cobalt	101	103	75 - 125	1	20		
Chromium	100	102	75 - 125	2	20		
Nickel	105	107	75 - 125	2	20		
Lead	102	101	75 - 125	0	20		
Vanadium	100	101	75 - 125	1	20		

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249851

Method: 6010C
Preparation: 3030C

MS Lab Sample ID:	280-33258-15	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1754			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1227				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33258-15	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249851	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1759			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1227				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	103	104	75 - 125	1	20		
Barium	97	97	75 - 125	0	20	J	J
Beryllium	103	104	75 - 125	1	20		
Cobalt	101	102	75 - 125	1	20		
Chromium	99	100	75 - 125	1	20		
Nickel	104	103	75 - 125	1	20		
Lead	101	104	75 - 125	2	20		
Vanadium	99	101	75 - 125	1	20		

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249851

Method: 6010C
Preparation: 3030C

MS Lab Sample ID:	280-33258-1	Units:	ug/L	MSD Lab Sample ID:	280-33258-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/17/2012 1516			Analysis Date:	09/17/2012 1522
Prep Date:	09/15/2012 1148			Prep Date:	09/15/2012 1148
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Silver	ND		50.0	50.0	51.9		53.0	
Barium	12	J	100	100	110		112	
Beryllium	ND		50.0	50.0	51.4		52.3	
Cobalt	ND		50.0	50.0	50.7		51.3	
Chromium	ND		100	100	99.7		102	
Nickel	ND		100	100	105		107	
Lead	ND		50.0	50.0	50.9		50.7	
Vanadium	8.6	J	100	100	109		110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249851

Method: 6010C
Preparation: 3030C

MS Lab Sample ID:	280-33258-15	Units:	ug/L	MSD Lab Sample ID:	280-33258-15
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/17/2012 1754			Analysis Date:	09/17/2012 1759
Prep Date:	09/15/2012 1227			Prep Date:	09/15/2012 1227
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Silver	ND		50.0	50.0	51.4		52.0	
Barium	1.5	J	100	100	98.5	J	98.8	J
Beryllium	ND		50.0	50.0	51.5		51.8	
Cobalt	ND		50.0	50.0	50.6		50.9	
Chromium	ND		100	100	98.9		99.7	
Nickel	ND		100	100	104		103	
Lead	ND		50.0	50.0	50.6		51.8	
Vanadium	5.3	J	100	100	105		106	

Client: Waste Management

Job Number: 280-33242-1

Method Blank - Batch: 680-249853

Method: 6010C
Preparation: 3030C

Lab Sample ID:	MB 680-249853/1-A	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1805	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Silver	ND		1.6	10
Barium	ND		1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	ND		2.4	25

Lab Control Sample - Batch: 680-249853

Method: 6010C
Preparation: 3030C

Lab Sample ID:	LCS 680-249853/2-A	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1811	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	50.9	102	75 - 125	
Barium	100	95.5	96	75 - 125	J
Beryllium	50.0	50.4	101	75 - 125	
Cobalt	50.0	49.9	100	75 - 125	
Chromium	100	96.7	97	75 - 125	
Nickel	100	103	103	75 - 125	
Lead	50.0	48.3	97	75 - 125	
Vanadium	100	98.7	99	75 - 125	

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249853

Method: 6010C
Preparation: 3030C

MS Lab Sample ID:	280-33259-A-1-H MS	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1846			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33259-A-1-I MSD	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1851			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	101	98	75 - 125	3	20		
Barium	96	93	75 - 125	2	20		
Beryllium	101	99	75 - 125	3	20		
Cobalt	101	97	75 - 125	4	20		
Chromium	97	95	75 - 125	3	20		
Nickel	103	100	75 - 125	3	20		
Lead	98	96	75 - 125	2	20		
Vanadium	99	97	75 - 125	2	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249853

Method: 6010C
Preparation: 3030C

MS Lab Sample ID:	280-33259-A-1-H MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/17/2012 1846		
Prep Date:	09/15/2012 1246		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33259-A-1-I MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/17/2012 1851
Prep Date:	09/15/2012 1246
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Silver	ND		50.0	50.0	50.7	49.1
Barium	29	J	100	100	125	122
Beryllium	ND		50.0	50.0	50.7	49.4
Cobalt	ND		50.0	50.0	50.4	48.5
Chromium	ND		100	100	96.9	94.5
Nickel	ND		100	100	103	99.6
Lead	ND		50.0	50.0	49.0	48.2
Vanadium	ND		100	100	99.2	96.9

Client: Waste Management

Job Number: 280-33242-1

Method Blank - Batch: 680-249852

Method: 6020A
Preparation: 3030C

Lab Sample ID:	MB 680-249852/1-A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249852	Lab File ID:	145SMPL.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0440	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.40	10
Copper	ND		0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	ND		2.6	10

Lab Control Sample - Batch: 680-249852

Method: 6020A
Preparation: 3030C

Lab Sample ID:	LCS 680-249852/2-A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249852	Lab File ID:	146SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0447	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	100	103	103	75 - 125	
Copper	100	97.7	98	75 - 125	
Cadmium	50.0	49.6	99	75 - 125	
Antimony	50.0	49.9	100	75 - 125	
Selenium	100	105	105	75 - 125	
Thallium	40.0	38.1	95	75 - 125	
Zinc	100	99.6	100	75 - 125	

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249852

Method: 6020A
Preparation: 3030C

MS Lab Sample ID:	280-33258-1	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249852	Lab File ID:	148SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0502			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33258-1	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249852	Lab File ID:	149SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0509			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1235				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	103	105	75 - 125	2	20		
Copper	96	97	75 - 125	1	20		
Cadmium	101	102	75 - 125	1	20		
Antimony	100	102	75 - 125	2	20		
Selenium	105	106	75 - 125	1	20		
Thallium	95	96	75 - 125	1	20		
Zinc	95	98	75 - 125	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249852

Method: 6020A
Preparation: 3030C

MS Lab Sample ID:	280-33258-1	Units:	ug/L	MSD Lab Sample ID:	280-33258-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	5.0			Dilution:	5.0
Analysis Date:	09/18/2012 0502			Analysis Date:	09/18/2012 0509
Prep Date:	09/15/2012 1235			Prep Date:	09/15/2012 1235
Leach Date:	N/A			Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
Arsenic	ND		100	100	103	105
Copper	3.3	J	100	100	99.7	101
Cadmium	ND		50.0	50.0	50.3	50.8
Antimony	ND		50.0	50.0	50.1	51.0
Selenium	ND		100	100	105	106
Thallium	ND		40.0	40.0	37.9	38.4
Zinc	5.3	J	100	100	101	103

Client: Waste Management

Job Number: 280-33242-1

Method Blank - Batch: 680-249855

Method: 6020A
Preparation: 3030C

Lab Sample ID:	MB 680-249855/1-A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	179SMPL.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0850	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.40	10
Copper	ND		0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	ND		2.6	10

Lab Control Sample - Batch: 680-249855

Method: 6020A
Preparation: 3030C

Lab Sample ID:	LCS 680-249855/2-A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	180SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0857	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	100	102	102	75 - 125	
Copper	100	92.8	93	75 - 125	
Cadmium	50.0	48.9	98	75 - 125	
Antimony	50.0	49.7	99	75 - 125	
Selenium	100	101	101	75 - 125	
Thallium	40.0	37.2	93	75 - 125	
Zinc	100	97.5	98	75 - 125	

Client: Waste Management

Job Number: 280-33242-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249855

Method: 6020A
Preparation: 3030C

MS Lab Sample ID:	280-33259-A-1-C MS	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	182SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0912			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33259-A-1-D MSD	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	183SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0919			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	102	98	75 - 125	4	20		
Copper	93	90	75 - 125	4	20		
Cadmium	101	96	75 - 125	5	20		
Antimony	99	94	75 - 125	4	20		
Selenium	103	98	75 - 125	5	20		
Thallium	93	91	75 - 125	2	20		
Zinc	97	94	75 - 125	4	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249855

Method: 6020A
Preparation: 3030C

MS Lab Sample ID:	280-33259-A-1-C MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	5.0		
Analysis Date:	09/18/2012 0912		
Prep Date:	09/15/2012 1252		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33259-A-1-D MSD
Client Matrix:	Water
Dilution:	5.0
Analysis Date:	09/18/2012 0919
Prep Date:	09/15/2012 1252
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	ND		100	100	102	98.5
Copper	0.40	J	100	100	93.7	90.2
Cadmium	ND		50.0	50.0	50.4	47.8
Antimony	ND		50.0	50.0	49.3	47.2
Selenium	ND		100	100	103	98.0
Thallium	ND		40.0	40.0	37.1	36.5
Zinc	ND		100	100	97.2	93.8

Client: Waste Management

Job Number: 280-33242-1

Laboratory Chronicle

Lab ID: 280-33242-1 **Client ID:** 3406-MW09R

Sample Date/Time: 09/13/2012 09:36 Received Date/Time: 09/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33242-J-1		280-139086		09/26/2012 12:57	1	TAL DEN	JS
A:8260B	280-33242-J-1		280-139086		09/26/2012 12:57	1	TAL DEN	JS

Lab ID: 280-33242-1 MS **Client ID:** 3406-MW09R

Sample Date/Time: 09/13/2012 09:36 Received Date/Time: 09/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33242-I-1 MS		280-139086		09/26/2012 13:19	1	TAL DEN	JS
A:8260B	280-33242-I-1 MS		280-139086		09/26/2012 13:19	1	TAL DEN	JS

Lab ID: 280-33242-1 MSD **Client ID:** 3406-MW09R

Sample Date/Time: 09/13/2012 09:36 Received Date/Time: 09/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33242-I-1 MSD		280-139086		09/26/2012 13:40	1	TAL DEN	JS
A:8260B	280-33242-I-1 MSD		280-139086		09/26/2012 13:40	1	TAL DEN	JS

Lab ID: 280-33258-1 **Client ID:** 3406-MW09R

Sample Date/Time: 09/13/2012 09:36 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3030C	280-33258-A-1-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-1-A		680-250057	680-249851	09/17/2012 14:59	1	TAL SAV	BCB
P:3030C	280-33258-A-1-D		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-1-D		680-250270	680-249852	09/18/2012 04:55	1	TAL SAV	BR

Lab ID: 280-33258-1 MS **Client ID:** 3406-MW09R

Sample Date/Time: 09/13/2012 09:36 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3030C	280-33258-A-1-B MS		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-1-B MS		680-250057	680-249851	09/17/2012 15:16	1	TAL SAV	BCB
P:3030C	280-33258-A-1-E MS		680-250270	680-249852	09/15/2012 12:35	5	TAL SAV	RAM
A:6020A	280-33258-A-1-E MS		680-250270	680-249852	09/18/2012 05:02	5	TAL SAV	BR

Client: Waste Management

Job Number: 280-33242-1

Laboratory Chronicle

Lab ID: **280-33258-1 MSD** **Client ID:** **3406-MW09R**

Sample Date/Time: 09/13/2012 09:36 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3030C	280-33258-A-1-C MSD		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-1-C MSD		680-250057	680-249851	09/17/2012 15:22	1	TAL SAV	BCB
P:3030C	280-33258-A-1-F MSD		680-250270	680-249852	09/15/2012 12:35	5	TAL SAV	RAM
A:6020A	280-33258-A-1-F MSD		680-250270	680-249852	09/18/2012 05:09	5	TAL SAV	BR

Lab ID: **280-33258-2** **Client ID:** **3406-MW03**

Sample Date/Time: 09/12/2012 16:27 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-E-2		280-138855		09/25/2012 11:56	1	TAL DEN	JS
A:8260B	280-33258-E-2		280-138855		09/25/2012 11:56	1	TAL DEN	JS
P:3030C	280-33258-A-2-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-2-A		680-250057	680-249851	09/17/2012 15:27	1	TAL SAV	BCB
P:3030C	280-33258-A-2-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-2-B		680-250270	680-249852	09/18/2012 05:17	1	TAL SAV	BR
A:Field Sampling	280-33258-A-2		280-137578		09/12/2012 16:27	1	TAL DEN	FS

Lab ID: **280-33258-2 MS** **Client ID:** **3406-MW03**

Sample Date/Time: 09/12/2012 16:27 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-D-2 MS		280-138855		09/25/2012 12:16	1	TAL DEN	JS
A:8260B	280-33258-D-2 MS		280-138855		09/25/2012 12:16	1	TAL DEN	JS

Lab ID: **280-33258-2 MSD** **Client ID:** **3406-MW03**

Sample Date/Time: 09/12/2012 16:27 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-D-2 MSD		280-138855		09/25/2012 12:35	1	TAL DEN	JS
A:8260B	280-33258-D-2 MSD		280-138855		09/25/2012 12:35	1	TAL DEN	JS

Client: Waste Management

Job Number: 280-33242-1

Laboratory Chronicle

Lab ID: 280-33258-3 **Client ID:** 3406-MW12

Sample Date/Time: 09/12/2012 10:45 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-E-3		280-138855		09/25/2012 13:53	1	TAL DEN	JS
A:8260B	280-33258-E-3		280-138855		09/25/2012 13:53	1	TAL DEN	JS
P:3030C	280-33258-A-3-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-3-A		680-250057	680-249851	09/17/2012 15:39	1	TAL SAV	BCB
P:3030C	280-33258-A-3-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-3-B		680-250270	680-249852	09/18/2012 05:31	1	TAL SAV	BR
A:Field Sampling	280-33258-A-3		280-137578		09/12/2012 10:45	1	TAL DEN	FS

Lab ID: 280-33258-4 **Client ID:** 3406-MW04

Sample Date/Time: 09/12/2012 11:17 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-E-4		280-138855		09/25/2012 14:13	1	TAL DEN	JS
A:8260B	280-33258-E-4		280-138855		09/25/2012 14:13	1	TAL DEN	JS
P:3030C	280-33258-A-4-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-4-A		680-250057	680-249851	09/17/2012 15:50	1	TAL SAV	BCB
P:3030C	280-33258-A-4-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-4-B		680-250270	680-249852	09/18/2012 05:46	1	TAL SAV	BR
A:Field Sampling	280-33258-A-4		280-137578		09/12/2012 11:17	1	TAL DEN	FS

Lab ID: 280-33258-5 **Client ID:** 3406-MW04D

Sample Date/Time: 09/12/2012 11:47 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-D-5		280-138855		09/25/2012 14:32	1	TAL DEN	JS
A:8260B	280-33258-D-5		280-138855		09/25/2012 14:32	1	TAL DEN	JS
P:3030C	280-33258-A-5-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-5-A		680-250057	680-249851	09/17/2012 16:24	1	TAL SAV	BCB
P:3030C	280-33258-A-5-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-5-B		680-250270	680-249852	09/18/2012 06:15	1	TAL SAV	BR
A:Field Sampling	280-33258-A-5		280-137578		09/12/2012 11:47	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-33242-1

Laboratory Chronicle

Lab ID: 280-33258-6 **Client ID:** 3406-MW08

Sample Date/Time: 09/12/2012 12:20 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-D-6		280-138855		09/25/2012 14:52	1	TAL DEN	JS
A:8260B	280-33258-D-6		280-138855		09/25/2012 14:52	1	TAL DEN	JS
P:3030C	280-33258-A-6-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-6-A		680-250057	680-249851	09/17/2012 16:35	1	TAL SAV	BCB
P:3030C	280-33258-A-6-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-6-B		680-250270	680-249852	09/18/2012 06:30	1	TAL SAV	BR
A:Field Sampling	280-33258-A-6		280-137578		09/12/2012 12:20	1	TAL DEN	FS

Lab ID: 280-33258-7 **Client ID:** 3406-MW01

Sample Date/Time: 09/12/2012 09:05 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-B-7		280-138855		09/25/2012 15:11	1	TAL DEN	JS
A:8260B	280-33258-B-7		280-138855		09/25/2012 15:11	1	TAL DEN	JS
P:3030C	280-33258-A-7-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-7-A		680-250057	680-249851	09/17/2012 16:47	1	TAL SAV	BCB
P:3030C	280-33258-A-7-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-7-B		680-250270	680-249852	09/18/2012 06:45	1	TAL SAV	BR
A:Field Sampling	280-33258-A-7		280-137578		09/12/2012 09:05	1	TAL DEN	FS

Lab ID: 280-33258-8 **Client ID:** 3406-MW06

Sample Date/Time: 09/12/2012 09:35 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-C-8		280-138855		09/25/2012 15:30	1	TAL DEN	JS
A:8260B	280-33258-C-8		280-138855		09/25/2012 15:30	1	TAL DEN	JS
P:3030C	280-33258-A-8-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-8-A		680-250057	680-249851	09/17/2012 16:53	1	TAL SAV	BCB
P:3030C	280-33258-A-8-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-8-B		680-250270	680-249852	09/18/2012 06:52	1	TAL SAV	BR
A:Field Sampling	280-33258-A-8		280-137578		09/12/2012 09:35	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-33242-1

Laboratory Chronicle

Lab ID: **280-33258-9** **Client ID:** **3406-MW12D**

Sample Date/Time: 09/12/2012 10:12 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-B-9		280-138855		09/25/2012 15:50	1	TAL DEN	JS
A:8260B	280-33258-B-9		280-138855		09/25/2012 15:50	1	TAL DEN	JS
P:3030C	280-33258-A-9-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-9-A		680-250057	680-249851	09/17/2012 17:01	1	TAL SAV	BCB
P:3030C	280-33258-A-9-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-9-B		680-250270	680-249852	09/18/2012 06:59	1	TAL SAV	BR
A:Field Sampling	280-33258-A-9		280-137578		09/12/2012 10:12	1	TAL DEN	FS

Lab ID: **280-33258-10** **Client ID:** **3406-MW05**

Sample Date/Time: 09/12/2012 12:54 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-D-10		280-138855		09/25/2012 16:09	1	TAL DEN	JS
A:8260B	280-33258-D-10		280-138855		09/25/2012 16:09	1	TAL DEN	JS
P:3030C	280-33258-A-10-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-10-A		680-250057	680-249851	09/17/2012 17:07	1	TAL SAV	BCB
P:3030C	280-33258-A-10-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-10-B		680-250270	680-249852	09/18/2012 07:07	1	TAL SAV	BR
A:Field Sampling	280-33258-A-10		280-137578		09/12/2012 12:54	1	TAL DEN	FS

Lab ID: **280-33258-11** **Client ID:** **3406-MW02**

Sample Date/Time: 09/12/2012 13:35 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-C-11		280-138855		09/25/2012 16:29	1	TAL DEN	JS
A:8260B	280-33258-C-11		280-138855		09/25/2012 16:29	1	TAL DEN	JS
P:3030C	280-33258-A-11-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-11-A		680-250057	680-249851	09/17/2012 17:13	1	TAL SAV	BCB
P:3030C	280-33258-A-11-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-11-B		680-250270	680-249852	09/18/2012 07:14	1	TAL SAV	BR
A:Field Sampling	280-33258-A-11		280-137578		09/12/2012 13:35	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-33242-1

Laboratory Chronicle

Lab ID: 280-33258-12 **Client ID:** 3406-MW11

Sample Date/Time: 09/12/2012 14:08 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-C-12		280-138855		09/25/2012 16:48	1	TAL DEN	JS
A:8260B	280-33258-C-12		280-138855		09/25/2012 16:48	1	TAL DEN	JS
P:3030C	280-33258-A-12-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-12-A		680-250057	680-249851	09/17/2012 17:30	1	TAL SAV	BCB
P:3030C	280-33258-A-12-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-12-B		680-250270	680-249852	09/18/2012 07:36	1	TAL SAV	BR
A:Field Sampling	280-33258-A-12		280-137578		09/12/2012 14:08	1	TAL DEN	FS

Lab ID: 280-33258-13 **Client ID:** 3406-MW11D

Sample Date/Time: 09/12/2012 14:42 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-B-13		280-138855		09/25/2012 17:08	1	TAL DEN	JS
A:8260B	280-33258-B-13		280-138855		09/25/2012 17:08	1	TAL DEN	JS
P:3030C	280-33258-A-13-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-13-A		680-250057	680-249851	09/17/2012 17:36	1	TAL SAV	BCB
P:3030C	280-33258-A-13-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-13-B		680-250270	680-249852	09/18/2012 07:43	1	TAL SAV	BR
A:Field Sampling	280-33258-A-13		280-137578		09/12/2012 14:42	1	TAL DEN	FS

Lab ID: 280-33258-14 **Client ID:** 3406-MW10

Sample Date/Time: 09/12/2012 15:20 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-D-14		280-138855		09/25/2012 17:27	1	TAL DEN	JS
A:8260B	280-33258-D-14		280-138855		09/25/2012 17:27	1	TAL DEN	JS
P:3030C	280-33258-A-14-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-14-A		680-250057	680-249851	09/17/2012 17:42	1	TAL SAV	BCB
P:3030C	280-33258-A-14-B		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-14-B		680-250270	680-249852	09/18/2012 07:51	1	TAL SAV	BR
A:Field Sampling	280-33258-A-14		280-137578		09/12/2012 15:20	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-33242-1

Laboratory Chronicle

Lab ID: 280-33258-15 **Client ID:** 3406-MW07

Sample Date/Time: 09/12/2012 15:52 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-B-15		280-138855		09/25/2012 12:55	1	TAL DEN	JS
A:8260B	280-33258-B-15		280-138855		09/25/2012 12:55	1	TAL DEN	JS
P:3030C	280-33258-A-15-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	280-33258-A-15-A		680-250057	680-249851	09/17/2012 17:48	1	TAL SAV	BCB
P:3030C	280-33258-A-15-D		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	280-33258-A-15-D		680-250270	680-249852	09/18/2012 07:58	1	TAL SAV	BR
A:Field Sampling	280-33258-A-15		280-137578		09/12/2012 15:52	1	TAL DEN	FS

Lab ID: 280-33258-15 MS **Client ID:** 3406-MW07

Sample Date/Time: 09/12/2012 15:52 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-C-15 MS		280-138855		09/25/2012 13:14	1	TAL DEN	JS
A:8260B	280-33258-C-15 MS		280-138855		09/25/2012 13:14	1	TAL DEN	JS
P:3030C	280-33258-A-15-B MS		680-250057	680-249851	09/15/2012 12:27	1	TAL SAV	RAM
A:6010C	280-33258-A-15-B MS		680-250057	680-249851	09/17/2012 17:54	1	TAL SAV	BCB

Lab ID: 280-33258-15 MSD **Client ID:** 3406-MW07

Sample Date/Time: 09/12/2012 15:52 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-C-15 MSD		280-138855		09/25/2012 13:34	1	TAL DEN	JS
A:8260B	280-33258-C-15 MSD		280-138855		09/25/2012 13:34	1	TAL DEN	JS
P:3030C	280-33258-A-15-C MSD		680-250057	680-249851	09/15/2012 12:27	1	TAL SAV	RAM
A:6010C	280-33258-A-15-C MSD		680-250057	680-249851	09/17/2012 17:59	1	TAL SAV	BCB

Lab ID: 280-33258-16 **Client ID:** 3406-01FB

Sample Date/Time: 09/13/2012 10:10 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-C-16		280-139086		09/26/2012 14:45	1	TAL DEN	JS
A:8260B	280-33258-C-16		280-139086		09/26/2012 14:45	1	TAL DEN	JS
P:3030C	280-33258-A-16-A		680-250057	680-249853	09/15/2012 12:48	1	TAL SAV	RAM
A:6010C	280-33258-A-16-A		680-250057	680-249853	09/17/2012 19:20	1	TAL SAV	BCB
P:3030C	280-33258-A-16-B		680-250270	680-249855	09/15/2012 12:52	1	TAL SAV	RAM
A:6020A	280-33258-A-16-B		680-250270	680-249855	09/18/2012 10:25	1	TAL SAV	BR
A:Field Sampling	280-33258-A-16		280-137578		09/13/2012 10:10	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-33242-1

Laboratory Chronicle

Lab ID: **280-33258-17** **Client ID:** **TRIP BLANK**

Sample Date/Time: 09/12/2012 09:05 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33258-A-17		280-138855		09/25/2012 18:44	1	TAL DEN	JS
A:8260B	280-33258-A-17		280-138855		09/25/2012 18:44	1	TAL DEN	JS

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-138855/5		280-138855		09/25/2012 09:40	1	TAL DEN	JS
A:8260B	MB 280-138855/5		280-138855		09/25/2012 09:40	1	TAL DEN	JS
P:5030B	MB 280-139086/5		280-139086		09/26/2012 11:29	1	TAL DEN	JS
A:8260B	MB 280-139086/5		280-139086		09/26/2012 11:29	1	TAL DEN	JS
P:3030C	MB 680-249851/1-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	MB 680-249851/1-A		680-250057	680-249851	09/17/2012 14:31	1	TAL SAV	BCB
P:3030C	MB 680-249853/1-A		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	MB 680-249853/1-A		680-250057	680-249853	09/17/2012 18:05	1	TAL SAV	BCB
P:3030C	MB 680-249852/1-A		680-250270	680-249852	09/15/2012 12:35	1	TAL SAV	RAM
A:6020A	MB 680-249852/1-A		680-250270	680-249852	09/18/2012 04:40	1	TAL SAV	BR
P:3030C	MB 680-249855/1-A		680-250270	680-249855	09/15/2012 12:52	1	TAL SAV	RAM
A:6020A	MB 680-249855/1-A		680-250270	680-249855	09/18/2012 08:50	1	TAL SAV	BR

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-138855/4		280-138855		09/25/2012 09:20	1	TAL DEN	JS
A:8260B	LCS 280-138855/4		280-138855		09/25/2012 09:20	1	TAL DEN	JS
P:5030B	LCS 280-139086/4		280-139086		09/26/2012 10:45	1	TAL DEN	JS
A:8260B	LCS 280-139086/4		280-139086		09/26/2012 10:45	1	TAL DEN	JS
P:3030C	LCS 680-249851/2-A		680-250057	680-249851	09/15/2012 11:48	1	TAL SAV	RAM
A:6010C	LCS 680-249851/2-A		680-250057	680-249851	09/17/2012 14:37	1	TAL SAV	BCB
P:3030C	LCS 680-249853/2-A		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	LCS 680-249853/2-A		680-250057	680-249853	09/17/2012 18:11	1	TAL SAV	BCB
P:3030C	LCS 680-249852/2-A		680-250270	680-249852	09/15/2012 12:35	5	TAL SAV	RAM
A:6020A	LCS 680-249852/2-A		680-250270	680-249852	09/18/2012 04:47	5	TAL SAV	BR
P:3030C	LCS 680-249855/2-A		680-250270	680-249855	09/15/2012 12:52	5	TAL SAV	RAM
A:6020A	LCS 680-249855/2-A		680-250270	680-249855	09/18/2012 08:57	5	TAL SAV	BR

Client: Waste Management

Job Number: 280-33242-1

Laboratory Chronicle

Lab ID: **LCSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-138855/32		280-138855		09/25/2012 09:59	1	TAL DEN	JS
A:8260B	LCSD 280-138855/32		280-138855		09/25/2012 09:59	1	TAL DEN	JS
P:5030B	LCSD 280-139086/7		280-139086		09/26/2012 11:07	1	TAL DEN	JS
A:8260B	LCSD 280-139086/7		280-139086		09/26/2012 11:07	1	TAL DEN	JS

Lab ID: **MS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3030C	280-33259-A-1-H MS		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	280-33259-A-1-H MS		680-250057	680-249853	09/17/2012 18:46	1	TAL SAV	BCB
P:3030C	280-33259-A-1-C MS		680-250270	680-249855	09/15/2012 12:52	5	TAL SAV	RAM
A:6020A	280-33259-A-1-C MS		680-250270	680-249855	09/18/2012 09:12	5	TAL SAV	BR

Lab ID: **MSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3030C	280-33259-A-1-I MSD		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	280-33259-A-1-I MSD		680-250057	680-249853	09/17/2012 18:51	1	TAL SAV	BCB
P:3030C	280-33259-A-1-D MSD		680-250270	680-249855	09/15/2012 12:52	5	TAL SAV	RAM
A:6020A	280-33259-A-1-D MSD		680-250270	680-249855	09/18/2012 09:19	5	TAL SAV	BR

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-19346-2300.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.4060	E-Mail: betsy.sara@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: Southern Area 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 770-805-3366(Tel)	PO #: Purchase Order not required			
Email: alacsama@wm.com	WO #:			
Project Name:134|Piedmont Landfill Annual App.II - Sep	Project #: 28003156			
Site: North Carolina	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Alks/SO4/Cl/NO3(cad)	Total Metals (TA Savannah)	Ammonia/TOC	8260B	8082A	335.4 - Cyanide, Total	Sulfide	8081B (ENCO)	8151A (ENCO)	8270D (ENCO)				Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	N	N	CB	N	N	N					
MW09R	9-13	0936	G	W	N		1	1	2	3	2	1	1	2	X	2					Short Holds: NO3(cad), CN(335.4)
TRIP	9-13	—	G	W	N					✓											

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 9-13-12 / 1500	Company: PRO-TECH	Received by:	Date/Time: 9/14/12 0900	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.1°C TA IR1 9-14-12

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW09R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091312	0912	24	25	21	09

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

X-Other:

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 764.95 (ft/msl)

Depth to Water (DTW) (from TOC): 27.82 (ft)

Groundwater Elevation (site datum, from TOC): 737.13 (ft/msl)

Total Well Depth (from TOC): 42.95 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0926	0.088 1st	5.87 1st	378 1st	15.8	0.8	0.5	473	
0929	0.088 2nd	5.86 2nd	378 2nd	15.8	0.6	0.5	473	
0932	0.088 3rd	5.87 3rd	378 3rd	15.9	0.5	0.5	472	
0935	0.088 4th	5.87 4th	378 4th	15.8	0.5	0.5	471	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
091312	5.87	378	15.9	0.5	0.5	471	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR 65°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 42.95 - 27.82 = 15.13 x 0.163 = 2.47 gallon

FLOW: 171 sec/qt x 4 qt/gal = 684 sec/gal ÷ 60 sec/min = 11.4 min/gal ≈ 0.088 gpm

VOL: 24 min x 0.088 gpm = 2.12 gallon

SAMPLE TIME: 0936

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/13/12	DAN ARMOUR	[signature]	PRO-TEAM
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-19344-8874.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.4060	E-Mail: betsy.sara@testamericainc.com		Page:
Company: Waste Management				Job #:
Address: Southern Area 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 770-805-3366(Tel)	PO #: Purchase Order not required			
Email: alacsama@wm.com	WO #:			
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA GW Monitoring Sep			
Site: North Carolina	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOA	Total Metals	Dissolved Metals (optional - put on hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	D		
MW09R	9-13	0936	G	W	N		3	1			
MW03	9-12	1627	G	W	Y		3	1	1		
MW12	9-12	1045	G	W	Y		3	1	1		
MW04	9-12	1117	G	W	Y		3	1	1		
MW04D	9-12	1147	G	W	Y		3	1	1		
MW08	9-12	1220	G	W	Y		3	1	1		
MW01	9-12	0905	G	W	N		3	1			
MW06	9-12	0935	G	W	N		3	1			
MW12D	9-12	1012	G	W	N		3	1			
MW05	9-12	1254	G	W	N		3	1			
MW02	9-12	1335	G	W	N		3	1			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 9-13-12 / 1500	Company: PRO-TECH	Received by:	Date/Time: 9/14/12 930	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 3.6, 3.8 TH 9-14-12

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-19344-8874.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.4060	E-Mail: betsy.sara@testamericainc.com		Page:
Company: Waste Management				Job #:
Address: Southern Area 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 770-805-3366(Tel)	PO #: Purchase Order not required			
Email: alacsama@wm.com	WO #:			
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA GW Monitoring Sep			
Site: North Carolina	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOA	Total Metals	Dissolved Metals (optional - put on hold)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	D		
MW11	9-12	1408	G	W	N		3	1			
MW11D	9-12	1442	G	W	N		3	1			
MW10	9-12	1520	G	W	N		3	1			
MW07	9-12	1552	G	W	N		3	1			
OIFB	9-13	1010	G	W	N		3	1			
TRIP	9-13	—	G	W	N		✓				

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 9-13-12 / 1500	Company: PRO-TECH	Received by:	Date/Time: 9/14/12 930	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW03 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 2

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091212	1606	21	1.8	1.8	10

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Filter Device: (Y) or (X) (0.45) or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 770.08 (ft/msl)

Depth to Water (DTW) (from TOC): 26.82 (ft)

Groundwater Elevation (site datum, from TOC): 743.26 (ft/msl)

Total Well Depth (from TOC): 38.00 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1617	0.09 1st	5.70 1st	158	15.7	2.4	2.6	642	27.4
1620	0.09 2nd	5.70 2nd	158	15.7	1.8	2.6	646	27.4
1623	0.09 3rd	5.70 3rd	159	15.7	2.5	2.6	647	27.4
1626	0.09 4th	5.70 4th	159	15.7	1.6	2.6	650	27.4
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
091212	5.70	159	15.7	1.6	2.6	650	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 85°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 38.00 - 26.82 = 11.18 x 0.163 = 1.82 gallon

FLOW: 171 sec/qt x 4 qt/gal = 684 sec/gal ÷ 60 sec/min = 11.40 min/gal ≈ 0.088 gpm

VOL: 21 min x 0.088 gpm = 1.85 gallon

SAMPLE TIME: 1627

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW12 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 3

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
09 12 12	1022	23	18	18	6

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: (Y) or N (0.45) or ____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sampling Device: C

X-Other:

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 7514.8 (ft/msl)

Depth to Water (DTW) (from TOC): 6.91 (ft)

Groundwater Elevation (site datum, from TOC): 744.57 (ft/msl)

Total Well Depth (from TOC): 18.00 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1035	0.076 1st	5.99 1st	1.52	16.8	7.4	0.9	572	7.2
1038	0.076 2nd	5.99 2nd	1.53	16.7	7.9	0.9	568	7.2
1041	0.076 3rd	5.99 3rd	1.52	16.8	7.5	0.9	568	7.2
1044	0.076 4th	5.99 4th	1.52	16.8	7.8	0.9	573	7.2
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
09 12 12	5.99	1.52	16.8	7.8	0.9	573	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 70°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 18.00 − 6.91 = 11.09 X 0.163 = 1.81 gallon

FLOW: 197 cc/gal X 4.87 gal/min = 788 cc/gal ÷ 60 cc/min = 13.13 min/gal ∴ 0.076 gpm

MOL: 23 min X 0.076 gpm = 1.75 gallon

SAMPLE TIME: 1045

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW04 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 4

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
09 12 12	1056	21	20	25	12

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: (Y) or N (0.45 µ) or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 756.92 (ft/msl)

Depth to Water (DTW) (from TOC): 14.50 (ft)

Groundwater Elevation (site datum, from TOC): 742.42 (ft/msl)

Total Well Depth (from TOC): 27.00 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1107	0.12 1st	5.45 1st	83	17.7	2.3	0.8	807	14.8
1110	0.12 2nd	5.43 2nd	83	17.7	2.4	0.9	810	14.8
1113	0.12 3rd	5.43 3rd	83	17.7	2.3	0.8	815	14.8
1116	0.12 4th	5.43 4th	83	17.7	2.3	0.8	818	14.8
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
09 12 12	5.43	83	17.7	2.3	0.8	818	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 70°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 27.00 - 14.50 = 12.50 x 0.163 = 2.04 gallon

FLOW: 125 cc/ft x 4 ft/gal = 500 cc/gal ÷ 60 cc/min = 8.33 min/gal ≈ 0.12 gpm

VOL: 21 min x 0.12 gpm = 2.52 gal

SAMPLE TIME: 1117

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW04D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 5

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091212	1126	21	77	17	02

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: (Y) or N (0.45 µ) or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
75733 (ft/msl)	1498 (ft)	74235 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
6200 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1137	0.08 1st	6.13 1st	1105	16.4	19.0	1.4	74.4	150
1140	0.08 2nd	6.13 2nd	1105	16.4	19.2	1.3	74.6	150
1143	0.08 3rd	6.12 3rd	1105	16.4	17.4	1.3	75.2	150
1146	0.08 4th	6.12 4th	1106	16.3	16.7	1.3	75.4	150
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
091212	6.12	1106	16.3	16.7	1.3	754	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: SLT. CLOUDY Odor: _____ Color: LT. TAN Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 75°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 62.00 − 14.98 = 47.02 × 0.163 = 7.66 gallon

FLOW: 187 sec/gt × 4 gt/gal = 748 sec/gal ÷ 60 sec/min = 12.47 min/gal ∴ 0.08 gpm

VOL: 21 min × 0.08 gpm = 1.68 gallon

SAMPLE TIME: 1147

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARNOVA		PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW08 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 6

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091212	1159	21	17	20	12

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: (Y) or N (0.45) or ____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Type: A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 74895 (ft/msl)

Depth to Water (DTW) (from TOC): 8.55 (ft)

Groundwater Elevation (site datum, from TOC): 74040 (ft/msl)

Total Well Depth (from TOC): 1880 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1210	0.097 1st	5.23 1st	115	18.3	52	0.9	831	9.0
1213	0.097 2nd	5.22 2nd	114	18.4	61	0.9	840	9.0
1216	0.097 3rd	5.21 3rd	114	18.4	59	0.9	857	9.0
1219	0.097 4th	5.21 4th	113	18.4	55	0.9	862	9.0
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
091212	5.21	113	18.4	55	0.9	862	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR 75°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 18.80 - 8.55 = 10.25 x 0.163 = 1.67 gallons

FLOW: 155 sec/pt x 4 pt/qt = 620 sec/qt ÷ 60 sec/min = 10.33 min/qt ∴ 0.097 gpm

VOL: 21 min x 0.097 gpm = 2.04 gal

SAMPLE TIME: 1220

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW01 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 7

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091212	0843	22	07	17	24

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 82393 (ft/msl)

Depth to Water (DTW) (from TOC): 44.68 (ft)

Groundwater Elevation (site datum, from TOC): 77925 (ft/msl)

Total Well Depth (from TOC): 49.00 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0855	0.08 1st	5.92 1st	72	15.3	13	1.6	738	44.7
0858	0.08 2nd	5.90 2nd	70	15.3	10	1.5	749	44.7
0901	0.08 3rd	5.89 3rd	68	15.3	11	1.5	754	44.7
0904	0.08 4th	5.89 4th	68	15.3	10	1.5	761	44.7
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
091212	5.89	68	15.3	10	1.5	761	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR 65°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 49.00 - 44.68 = 4.32 x 0.163 = 0.704 gal

FLOW: 192 cc/st x 4 st/gal = 768 cc/gal ÷ 60 cc/min = 12.8 min/gal ∴ 0.078 gpm

VOL: 22 min x 0.078 gpm = 1.72 gal

SAMPLE TIME: 0905

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW06 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 8

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
09/12/12	09:15	20	0.8	1.7	2.3

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: –
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other:

Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 800.87 (ft/msl)

Depth to Water (DTW) (from TOC): 24.95 (ft)

Groundwater Elevation (site datum, from TOC): 775.92 (ft/msl)

Total Well Depth (from TOC): 29.60 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0925	0.09 1st	5.32 1st	36	15.4	3.5	1.7	860	25.0
0928	0.09 2nd	5.32 2nd	36	15.4	3.4	1.7	860	25.0
0931	0.09 3rd	5.31 3rd	35	15.5	3.6	1.7	873	25.0
0934	0.09 4th	5.31 4th	35	15.5	3.0	1.7	879	25.1
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
09/12/12	5.31	35	15.5	3.0	1.7	879	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 65 °F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 29.60 - 24.95 = 4.65 x 0.163 = 0.76 gallon

FLOW: 174 sec/qt x 4 qt/gal = 696 sec/gal ÷ 60 sec/min = 11.6 min/gal ≈ 0.086 gpm

VOL: 20 min x 0.086 gpm = 1.72 gallon

SAMPLE TIME: 0935

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW12D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 9

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091212	0950	22	60	18	03

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Filter Type: –

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: A

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

WELL DATA

Well Elevation (at TOC): 75148 (ft/msl)

Depth to Water (DTW) (from TOC): 662 (ft)

Groundwater Elevation (site datum, from TOC): 74486 (ft/msl)

Total Well Depth (from TOC): 4330 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1012	0.08 1st	6.49 1st	243 1st	15.6	0.9	0.5	550	6.7
1015	0.08 2nd	6.49 2nd	243 2nd	15.6	1.7	0.5	550	6.8
1018	0.08 3rd	6.49 3rd	242 3rd	15.5	1.4	0.5	547	6.8
1011	0.08 4th	6.49 4th	242 4th	15.5	1.6	0.5	547	6.8
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
091212	6.49	242	15.5	1.6	0.5	547	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: _____ Color: NONE Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: clear 70°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 43.30 − 6.62 = 36.68 x 0.163 = 5.98 gallon

FLOW: 188 cc/qt x 4 qt/gal = 752 cc/gal ÷ 60 cc/min = 12.53 min/gal ∴ 0.08 gpm

VOL: 22 min x 0.08 gpm = 1.76 gallon

SAMPLE TIME: 1012

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW05 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 10

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091212	1234	20	24	18	07

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: Y or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 7437 (ft/msl)

Depth to Water (DTW) (from TOC): 578 (ft)

Groundwater Elevation (site datum, from TOC): 7379 (ft/msl)

Total Well Depth (from TOC): 2050 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1244	0.09 1st	582 1st	332	18.2	3.6	0.7	546	60
1247	0.09 2nd	581 2nd	332	18.2	1.7	0.6	551	60
1250	0.09 3rd	581 3rd	333	18.1	1.9	0.6	554	60
1253	0.09 4th	581 4th	332	18.1	1.5	0.6	547	60
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
091212	581	332	181	1.5	0.6	547	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 80°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 20.50 - 5.78 = 14.72 x 0.163 = 2.40 gallon

FLOW: 171 sec/qt x 4 qt/gal = 684 sec/gal ÷ 60 sec/min = 11.4 min/gal ∴ 0.088 gpm

VOL: 20 min x 0.088 gpm = 1.76 gallon

SAMPLE TIME: 1254

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Piedmont

Site No.:

Sample Point: MW02 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 11

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091212	1315	20	0.9	1.5	1.7

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

X-Other:

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
778.04 (ft/msl)	30.03 (ft)	748.01 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
35.50 (ft)	(ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1325	0.07 1st	5.37 1st	137 1st	19.9	32	1.1	712	30.02
1328	0.07 2nd	5.36 2nd	137 2nd	19.9	28	1.1	713	30.02
1331	0.07 3rd	5.35 3rd	138 3rd	19.8	22	1.1	714	30.02
1334	0.07 4th	5.34 4th	139 4th	19.8	25	1.1	720	30.02
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
091212	5.34	139	19.8	25	1.1	720	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 80°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 35.50 − 30.03 = 5.47 X 0.163 = 0.89 gallon

FLOW: 203 sec/gal X 4 gal/gal = 812 sec/gal ÷ 60 sec/min = 13.53 min/gal ∴ 0.074 gpm

VOL: 20 min X 0.074 gpm = 1.48 gallon

SAMPLE TIME: 1335

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW11 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 12

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091212	1347	21	08	16	20

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): 77680 (ft/msl)

Depth to Water (DTW) (from TOC): 2998 (ft)

Groundwater Elevation (site datum, from TOC): 74682 (ft/msl)

Total Well Depth (from TOC): 3500 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1358	0.077 1st	5.50 1st	164	17.7	6.9	1.1	68.9	30.1
1401	0.077 2nd	5.45 2nd	163	17.3	6.9	1.2	68.4	30.1
1404	0.077 3rd	5.45 3rd	163	17.2	4.2	1.1	68.0	30.1
1407	0.077 4th	5.45 4th	161	17.2	3.9	1.2	67.6	30.1
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
091212	5.45	161	17.2	3.9	1.2	676	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: Clear 80-85°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 35.00 - 29.98 = 5.02 x 0.163 = 0.82 gallon

FLOW: 196 sec/qt x 4 qt/gal = 784 sec/gal ÷ 60 sec/min = 13.07 min/gal: 0.077 gpm

VOL: 21 min x 0.077 gpm = 1.62 gallon

SAMPLE TIME: 1408

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PROTECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Piedmont

Site No.:

Sample Point: MW11D (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 13

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091212	1420	22	104	19	02

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): 77636 (ft/msl)

Depth to Water (DTW) (from TOC): 2983 (ft)

Groundwater Elevation (site datum, from TOC): 74653 (ft/msl)

Total Well Depth (from TOC): 9350 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit gpm	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1432	0.088 1st	6.35 1st	74	16.8	11.3	3.9	708	307
1435	0.088 2nd	6.35 2nd	74	16.8	11.9	3.9	709	307
1438	0.088 3rd	6.34 3rd	73	16.9	11.2	3.8	710	308
1441	0.088 4th	6.35 4th	73	16.9	11.5	3.8	709	308
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
091212	6.35	73	16.9	11.5	3.8	709	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 85°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

CALC: 93.50 − 29.83 = 63.67 x 0.163 = 10.39 gallon

FLOW: 170 sec/qt x 4 qt/gal = 680 sec/gal ÷ 60 sec/min = 11.33 min/gal ∴ 0.088 gpm

VOL: 22 min x 0.088 gpm = 1.94 gallon

SAMPLE TIME: 1442

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW10 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 14

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
09/12/12	1500	20	09	18	21

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

X-Other: ____

WELL DATA

Well Elevation (at TOC): 7720 (ft/msl)

Depth to Water (DTW) (from TOC): 3280 (ft)

Groundwater Elevation (site datum, from TOC): 74490 (ft/msl)

Total Well Depth (from TOC): 3800 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1510	0.09 1st	5.68 1st	107	17.6	43	3.4	787	3.28
1513	0.09 2nd	5.67 2nd	106	17.6	50	3.4	794	3.29
1516	0.09 3rd	5.67 3rd	108	17.6	44	3.3	799	3.29
1519	0.09 4th	5.67 4th	109	17.5	41	3.3	801	3.29
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
09/12/12	5.67	109	17.5	41	3.3	801	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR 85°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 38.00 - 32.80 = 5.20 X 0.163 = 0.85 gallon

FLOW: 164 sec/qt X 4 qt/qal = 656 sec/qal ÷ 60 sec/min = 10.93 min/qal ∴ 0.091 gpm

VOL: 20 min X 0.091 gpm = 1.82 gallon

SAMPLE TIME: 1520

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: MW07 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 15

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
09 12 12	1532	20	07	16	22

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
7715.7 (ft/msl)	26.87 (ft)	744.70 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
31.30 (ft)	____ (ft)	2 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (gpm)	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1542	0.078 1st	5.84 1st	132	17.2	4.1	2.4	77.6	27.0
1545	0.078 2nd	5.83 2nd	133	17.1	3.8	2.4	78.0	27.0
1548	0.078 3rd	5.83 3rd	133	17.0	3.6	2.4	78.2	27.0
1551	0.078 4th	5.83 4th	134	17.1	3.4	2.4	78.3	27.0
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
09 12 12	5.83	134	17.1	3.4	2.4	78.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 85°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

CALC: 31.30 - 26.87 = 4.43 x 0.163 = 0.72 gallon

FLOW: 193 sec/qt x 4 qt/gallon = 772 sec/gal ÷ 60 sec/min = 12.87 min/gal ≈ 0.078 gpm

VOL: 20 min x 0.078 gpm = 1.56 gallon

SAMPLE TIME: 1552

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/12/12	DAN ARMOUR	[signature]	PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: 01FB (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 16

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091312	—	—	—	—	—

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: —
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: X

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

X-Other: SAMPLE BOTTLES

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1010	NA 1st	6.88 1st	5 1st	18.0	0.0	2.7	263	
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
091312	6.88	5	18.0	0.0	2.7	263	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR 70°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

01FB - FIELD BLANK COMPLETED USING D.I. H_2O PROVIDED BY TEST AMERICA

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/13/12	DAN ARMOUR		PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-33242-1

Login Number: 33242

List Source: TestAmerica Denver

List Number: 1

Creator: Wheeler, Virginia L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-33242-1

Login Number: 33242
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah
List Creation: 09/15/12 11:23 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-33242-1

Login Number: 33258

List Source: TestAmerica Denver

List Number: 1

Creator: Cofoid, Stephen T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-33242-1

Login Number: 33258
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah
List Creation: 09/15/12 11:23 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 280-33259-1

Job Description: 134|Piedmont Landfill

For:
Waste Management
Closed Site Mgmnt Grp
1850 Parkway Place, Suite 600
Marietta, GA 30067

Attention: Mr. Al Lacsamana

Approved for release.
Betsy A Sara
Project Manager II
9/29/2012 8:33 AM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
09/29/2012

cc: Mr. Van Burbach

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE

Client: Waste Management

Project: 134|Piedmont Landfill

Report Number: 280-33259-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 09/14/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.0 C.

Holding Times

The holding times were within established control limits.

Method Blanks

All Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

All MS/MSD samples were within established control limits.

Organics

The Method 8260B surrogate recoveries of 1,2-Dichloroethane-d4 and Dibromofluoromethane were above control limits for sample 3406-S04. Because the data are considered to be biased high and all target analytes in the sample were non-detect, corrective action was deemed unnecessary.

General Comments

The analysis for metals was performed at TestAmerica's Savannah facility.

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912.354.7858

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-33259-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-33259-1	**3406-S02**					
Acetone		3.0	J	100	ug/L	8260B
Barium		29	J	100	ug/L	6010C
Copper		0.40	J	10	ug/L	6020A
Field pH		7.86			SU	Field Sampling
Field Conductivity		136			umhos/cm	Field Sampling
Field Temperature		17.6			Degrees C	Field Sampling
Field Turbidity		0.9			NTU	Field Sampling
Field Dissolved Oxygen		8.2			mg/L	Field Sampling
Field EH/ORP		43.3			millivolts	Field Sampling
280-33259-2	**3406-S03**					
Acetone		2.9	J	100	ug/L	8260B
Barium		26	J	100	ug/L	6010C
Field pH		7.31			SU	Field Sampling
Field Conductivity		106			umhos/cm	Field Sampling
Field Temperature		16.8			Degrees C	Field Sampling
Field Turbidity		2.7			NTU	Field Sampling
Field Dissolved Oxygen		7.7			mg/L	Field Sampling
Field EH/ORP		44.1			millivolts	Field Sampling
280-33259-3	**3406-S04**					
Barium		26	J	100	ug/L	6010C
Field pH		7.84			SU	Field Sampling
Field Conductivity		106			umhos/cm	Field Sampling
Field Temperature		18.0			Degrees C	Field Sampling
Field Turbidity		1.1			NTU	Field Sampling
Field Dissolved Oxygen		7.9			mg/L	Field Sampling
Field EH/ORP		58.3			millivolts	Field Sampling
280-33259-4	**3406-S05**					
Barium		34	J	100	ug/L	6010C
Arsenic		0.40	J	10	ug/L	6020A
Field pH		7.36			SU	Field Sampling
Field Conductivity		179			umhos/cm	Field Sampling
Field Temperature		16.2			Degrees C	Field Sampling
Field Turbidity		1.4			NTU	Field Sampling
Field Dissolved Oxygen		5.2			mg/L	Field Sampling
Field EH/ORP		87.3			millivolts	Field Sampling

METHOD SUMMARY

Client: Waste Management

Job Number: 280-33259-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Field Sampling	TAL DEN	EPA Field Sampling	
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Extractable Metals	TAL SAV		SM 3030C
Metals (ICP/MS)	TAL SAV	SW846 6020A	
Preparation, Extractable Metals	TAL SAV		SM 3030C

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-33259-1

Method	Analyst	Analyst ID
SW846 8260B	Seifert, Judy	JS
SW846 6010C	Bland, Brian	BCB
SW846 6020A	Robertson, Bryn	BR
EPA Field Sampling	Field, Sampler	FS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-33259-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-33259-1	3406-S02	Water	09/13/2012 1140	09/14/2012 0930
280-33259-2	3406-S03	Water	09/13/2012 1103	09/14/2012 0930
280-33259-3	3406-S04	Water	09/13/2012 1108	09/14/2012 0930
280-33259-4	3406-S05	Water	09/13/2012 1051	09/14/2012 0930
280-33259-5TB	TRIP BLANK	Water	09/13/2012 1051	09/14/2012 0930

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-33259-1

Client Matrix: Water

Date Sampled: 09/13/2012 1140

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8588.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1506			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1506				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	3.0	J	1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-33259-1

Client Matrix: Water

Date Sampled: 09/13/2012 1140

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8588.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1506			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1506				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	112		77 - 120

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-33259-2

Client Matrix: Water

Date Sampled: 09/13/2012 1103

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139324	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8621.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/27/2012 1250			Final Weight/Volume:	20 mL
Prep Date:	09/27/2012 1250				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	2.9	J	1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-33259-2

Client Matrix: Water

Date Sampled: 09/13/2012 1103

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139324	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8621.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/27/2012 1250			Final Weight/Volume:	20 mL
Prep Date:	09/27/2012 1250				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 127
Toluene-d8 (Surr)	85		80 - 125
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	92		77 - 120

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-33259-3

Client Matrix: Water

Date Sampled: 09/13/2012 1108

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8590.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1549			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1549				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-33259-3

Client Matrix: Water

Date Sampled: 09/13/2012 1108

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8590.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1549			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1549				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	135	X	70 - 127
Toluene-d8 (Surr)	125		80 - 125
4-Bromofluorobenzene (Surr)	116		78 - 120
Dibromofluoromethane (Surr)	131	X	77 - 120

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-33259-4

Client Matrix: Water

Date Sampled: 09/13/2012 1051

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8591.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1610			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1610				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-33259-4

Client Matrix: Water

Date Sampled: 09/13/2012 1051

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8591.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1610			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1610				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	112		77 - 120

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-33259-5TB

Client Matrix: Water

Date Sampled: 09/13/2012 1051

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8579.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1151			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1151				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	1.0

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-33259-5TB

Client Matrix: Water

Date Sampled: 09/13/2012 1051

Date Received: 09/14/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8579.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1151			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1151				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	104		80 - 125
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	107		77 - 120

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-33259-1

Client Matrix: Water

Date Sampled: 09/13/2012 1140

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1817			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	29	J	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	ND		2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249855	Lab File ID:	181SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0904			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND		0.40	10
Copper	0.40	J	0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	ND		2.6	10

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-33259-2

Client Matrix: Water

Date Sampled: 09/13/2012 1103

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1857			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	26	J	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	ND		2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249855	Lab File ID:	184SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0926			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND		0.40	10
Copper	ND		0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	ND		2.6	10

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-33259-3

Client Matrix: Water

Date Sampled: 09/13/2012 1108

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1903			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1248				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	26	J	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	ND		2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249855	Lab File ID:	187SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0948			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	ND		0.40	10
Copper	ND		0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	ND		2.6	10

Client: Waste Management

Job Number: 280-33259-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-33259-4

Client Matrix: Water

Date Sampled: 09/13/2012 1051

Date Received: 09/14/2012 0930

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1909			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1248				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	34	J	1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	ND		2.4	25

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249855	Lab File ID:	188SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0956			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	0.40	J	0.40	10
Copper	ND		0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	ND		2.6	10

Field Service / Mobile Lab

Client Sample ID: **3406-S02**

Lab Sample ID: 280-33259-1

Client Matrix: Water

Date Sampled: 09/13/2012 1140

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.86		SU	1.0	Field Sampling	280-137582	09/13/2012 1140
Field Conductivity	136		umhos/cm	1.0	Field Sampling	280-137582	09/13/2012 1140
Field Temperature	17.6		Degrees C	1.0	Field Sampling	280-137582	09/13/2012 1140
Field Turbidity	0.9		NTU	1.0	Field Sampling	280-137582	09/13/2012 1140
Field Dissolved Oxygen	8.2		mg/L	1.0	Field Sampling	280-137582	09/13/2012 1140
Field EH/ORP	43.3		millivolts	1.0	Field Sampling	280-137582	09/13/2012 1140

Field Service / Mobile Lab

Client Sample ID: **3406-S03**

Lab Sample ID: 280-33259-2

Client Matrix: Water

Date Sampled: 09/13/2012 1103

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.31		SU	1.0	Field Sampling	280-137582	09/13/2012 1103
Field Conductivity	106		umhos/cm	1.0	Field Sampling	280-137582	09/13/2012 1103
Field Temperature	16.8		Degrees C	1.0	Field Sampling	280-137582	09/13/2012 1103
Field Turbidity	2.7		NTU	1.0	Field Sampling	280-137582	09/13/2012 1103
Field Dissolved Oxygen	7.7		mg/L	1.0	Field Sampling	280-137582	09/13/2012 1103
Field EH/ORP	44.1		millivolts	1.0	Field Sampling	280-137582	09/13/2012 1103

Field Service / Mobile Lab

Client Sample ID: **3406-S04**

Lab Sample ID: 280-33259-3

Client Matrix: Water

Date Sampled: 09/13/2012 1108

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.84		SU	1.0	Field Sampling	280-137582	09/13/2012 1108
Field Conductivity	106		umhos/cm	1.0	Field Sampling	280-137582	09/13/2012 1108
Field Temperature	18.0		Degrees C	1.0	Field Sampling	280-137582	09/13/2012 1108
Field Turbidity	1.1		NTU	1.0	Field Sampling	280-137582	09/13/2012 1108
Field Dissolved Oxygen	7.9		mg/L	1.0	Field Sampling	280-137582	09/13/2012 1108
Field EH/ORP	58.3		millivolts	1.0	Field Sampling	280-137582	09/13/2012 1108

Field Service / Mobile Lab

Client Sample ID: **3406-S05**

Lab Sample ID: 280-33259-4

Client Matrix: Water

Date Sampled: 09/13/2012 1051

Date Received: 09/14/2012 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.36		SU	1.0	Field Sampling	280-137582	09/13/2012 1051
Field Conductivity	179		umhos/cm	1.0	Field Sampling	280-137582	09/13/2012 1051
Field Temperature	16.2		Degrees C	1.0	Field Sampling	280-137582	09/13/2012 1051
Field Turbidity	1.4		NTU	1.0	Field Sampling	280-137582	09/13/2012 1051
Field Dissolved Oxygen	5.2		mg/L	1.0	Field Sampling	280-137582	09/13/2012 1051
Field EH/ORP	87.3		millivolts	1.0	Field Sampling	280-137582	09/13/2012 1051

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-33259-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
Metals		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-33259-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-139086					
LCS 280-139086/4	Lab Control Sample	T	Water	8260B	
LCSD 280-139086/7	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-139086/5	Method Blank	T	Water	8260B	
280-33242-I-1 MS	Matrix Spike	T	Water	8260B	
280-33242-I-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-33259-1	3406-S02	T	Water	8260B	
280-33259-3	3406-S04	T	Water	8260B	
280-33259-4	3406-S05	T	Water	8260B	
280-33259-5TB	TRIP BLANK	T	Water	8260B	
Analysis Batch:280-139324					
LCS 280-139324/4	Lab Control Sample	T	Water	8260B	
LCSD 280-139324/7	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-139324/5	Method Blank	T	Water	8260B	
280-33259-2	3406-S03	T	Water	8260B	
280-33420-C-5 MS	Matrix Spike	T	Water	8260B	
280-33420-C-5 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-33259-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-249853					
LCS 680-249853/2-A	Lab Control Sample	T	Water	3030C	
MB 680-249853/1-A	Method Blank	T	Water	3030C	
280-33259-1	3406-S02	T	Water	3030C	
280-33259-1MS	Matrix Spike	T	Water	3030C	
280-33259-1MSD	Matrix Spike Duplicate	T	Water	3030C	
280-33259-2	3406-S03	T	Water	3030C	
280-33259-3	3406-S04	T	Water	3030C	
280-33259-4	3406-S05	T	Water	3030C	
Prep Batch: 680-249855					
LCS 680-249855/2-A	Lab Control Sample	T	Water	3030C	
MB 680-249855/1-A	Method Blank	T	Water	3030C	
280-33259-1	3406-S02	T	Water	3030C	
280-33259-1MS	Matrix Spike	T	Water	3030C	
280-33259-1MSD	Matrix Spike Duplicate	T	Water	3030C	
280-33259-2	3406-S03	T	Water	3030C	
280-33259-3	3406-S04	T	Water	3030C	
280-33259-4	3406-S05	T	Water	3030C	
Analysis Batch:680-250057					
LCS 680-249853/2-A	Lab Control Sample	T	Water	6010C	680-249853
MB 680-249853/1-A	Method Blank	T	Water	6010C	680-249853
280-33259-1	3406-S02	T	Water	6010C	680-249853
280-33259-1MS	Matrix Spike	T	Water	6010C	680-249853
280-33259-1MSD	Matrix Spike Duplicate	T	Water	6010C	680-249853
280-33259-2	3406-S03	T	Water	6010C	680-249853
280-33259-3	3406-S04	T	Water	6010C	680-249853
280-33259-4	3406-S05	T	Water	6010C	680-249853
Analysis Batch:680-250270					
LCS 680-249855/2-A	Lab Control Sample	T	Water	6020A	680-249855
MB 680-249855/1-A	Method Blank	T	Water	6020A	680-249855
280-33259-1	3406-S02	T	Water	6020A	680-249855
280-33259-1MS	Matrix Spike	T	Water	6020A	680-249855
280-33259-1MSD	Matrix Spike Duplicate	T	Water	6020A	680-249855
280-33259-2	3406-S03	T	Water	6020A	680-249855
280-33259-3	3406-S04	T	Water	6020A	680-249855
280-33259-4	3406-S05	T	Water	6020A	680-249855

Report Basis

T = Total

Client: Waste Management

Job Number: 280-33259-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Service / Mobile Lab					
Analysis Batch:280-137582					
280-33259-1	3406-S02	T	Water	Field Sampling	
280-33259-2	3406-S03	T	Water	Field Sampling	
280-33259-3	3406-S04	T	Water	Field Sampling	
280-33259-4	3406-S05	T	Water	Field Sampling	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-33259-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec	DBFM %Rec
280-33259-1	3406-S02	116	99	98	112
280-33259-2	3406-S03	96	85	96	92
280-33259-3	3406-S04	135X	125	116	131X
280-33259-4	3406-S05	115	98	95	112
280-33259-5	TRIP BLANK	103	104	93	107
MB 280-139086/5		115	102	100	114
MB 280-139324/5		116	100	103	110
LCS 280-139086/4		111	98	95	107
LCS 280-139324/4		116	104	97	110
LCSD 280-139086/7		116	96	100	111
LCSD 280-139324/7		115	96	95	107
280-33242-I-1 MS		109	92	85	100
280-33420-C-5 MS		119	99	103	107
280-33242-I-1 MSD		106	92	90	101
280-33420-C-5 MSD		114	101	104	106

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120
DBFM = Dibromofluoromethane (Surr)	77-120

Client: Waste Management

Job Number: 280-33259-1

Method Blank - Batch: 280-139086

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-139086/5	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8578.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1129	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1129				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50

Client: Waste Management

Job Number: 280-33259-1

Method Blank - Batch: 280-139086

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-139086/5	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8578.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1129	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1129				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115	70 - 127
Toluene-d8 (Surr)	102	80 - 125
4-Bromofluorobenzene (Surr)	100	78 - 120
Dibromofluoromethane (Surr)	114	77 - 120

Client: Waste Management

Job Number: 280-33259-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-139086/4	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8576.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1045	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1045				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-139086/7	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8577.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1107	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1107				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	107	110	70 - 135	2	20		
1,1-Dichloroethane	100	99	75 - 135	0	21	J	J
1,1-Dichloroethene	105	103	71 - 136	1	20		
1,2-Dichloropropane	91	94	71 - 120	3	20		
1,3-Dichlorobenzene	93	88	74 - 135	5	20		
Benzene	97	93	74 - 135	5	20		
Bromodichloromethane	109	106	73 - 135	3	20		
Carbon tetrachloride	110	112	67 - 135	2	21		
Chlorobenzene	96	87	76 - 135	9	20		
Chloroform	110	107	76 - 120	3	20		
Ethylbenzene	95	87	72 - 120	10	26		
Methylene Chloride	122	110	54 - 141	10	20		
Tetrachloroethene	99	87	70 - 135	13	20		
Toluene	99	97	73 - 120	2	20		
trans-1,2-Dichloroethene	103	103	75 - 135	0	24		
Trichloroethene	96	96	73 - 135	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111	116	70 - 127
Toluene-d8 (Surr)	98	96	80 - 125
4-Bromofluorobenzene (Surr)	95	100	78 - 120
Dibromofluoromethane (Surr)	107	111	77 - 120

Client: Waste Management

Job Number: 280-33259-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-139086/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-139086/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/26/2012 1045			Analysis Date:	09/26/2012 1107
Prep Date:	09/26/2012 1045			Prep Date:	09/26/2012 1107
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
1,1,1-Trichloroethane	5.00	5.00	5.37		5.49	
1,1-Dichloroethane	5.00	5.00	4.99	J	4.97	J
1,1-Dichloroethene	5.00	5.00	5.23		5.17	
1,2-Dichloropropane	5.00	5.00	4.56		4.71	
1,3-Dichlorobenzene	5.00	5.00	4.65		4.42	
Benzene	5.00	5.00	4.85		4.64	
Bromodichloromethane	5.00	5.00	5.44		5.30	
Carbon tetrachloride	5.00	5.00	5.49		5.62	
Chlorobenzene	5.00	5.00	4.78		4.36	
Chloroform	5.00	5.00	5.50		5.35	
Ethylbenzene	5.00	5.00	4.77		4.33	
Methylene Chloride	5.00	5.00	6.10		5.52	
Tetrachloroethene	5.00	5.00	4.96		4.34	
Toluene	5.00	5.00	4.97		4.85	
trans-1,2-Dichloroethene	5.00	5.00	5.14		5.14	
Trichloroethene	5.00	5.00	4.81		4.79	

Client: Waste Management

Job Number: 280-33259-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33242-I-1 MS	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8583.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1319			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1319				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33242-I-1 MSD	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8584.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1340			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1340				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	101	102	70 - 135	1	20		
1,1-Dichloroethane	94	99	75 - 135	4	21		
1,1-Dichloroethene	98	98	71 - 136	1	20	J	J
1,2-Dichloropropane	92	90	71 - 120	3	20		
1,3-Dichlorobenzene	90	87	74 - 135	3	20		
Benzene	92	92	74 - 135	0	20		
Bromodichloromethane	105	100	73 - 135	5	20		
Carbon tetrachloride	104	103	67 - 135	1	21		
Chlorobenzene	94	90	76 - 135	4	20		
Chloroform	108	103	76 - 120	5	20		
Ethylbenzene	89	89	72 - 120	0	26		
Methylene Chloride	92	89	54 - 141	4	20		
Tetrachloroethene	89	92	70 - 135	3	20		
Toluene	94	89	73 - 120	5	20		
trans-1,2-Dichloroethene	100	100	75 - 135	1	24		J
Trichloroethene	95	92	73 - 135	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109	106	70 - 127
Toluene-d8 (Surr)	92	92	80 - 125
4-Bromofluorobenzene (Surr)	85	90	78 - 120
Dibromofluoromethane (Surr)	100	101	77 - 120

Client: Waste Management

Job Number: 280-33259-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33242-I-1 MS	Units: ug/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/26/2012 1319		
Prep Date:	09/26/2012 1319		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33242-I-1 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/26/2012 1340
Prep Date:	09/26/2012 1340
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1-Trichloroethane	ND		5.00	5.00	5.03		5.08	
1,1-Dichloroethane	2.2	J	5.00	5.00	6.85		7.12	
1,1-Dichloroethene	ND		5.00	5.00	4.88	J	4.91	J
1,2-Dichloropropane	ND		5.00	5.00	4.62		4.48	
1,3-Dichlorobenzene	ND		5.00	5.00	4.49		4.36	
Benzene	ND		5.00	5.00	4.59		4.60	
Bromodichloromethane	ND		5.00	5.00	5.23		4.99	
Carbon tetrachloride	ND		5.00	5.00	5.19		5.14	
Chlorobenzene	ND		5.00	5.00	4.70		4.51	
Chloroform	ND		5.00	5.00	5.38		5.13	
Ethylbenzene	ND		5.00	5.00	4.44		4.43	
Methylene Chloride	ND		5.00	5.00	4.61		4.44	
Tetrachloroethene	ND		5.00	5.00	4.47		4.61	
Toluene	ND		5.00	5.00	4.71		4.47	
trans-1,2-Dichloroethene	ND		5.00	5.00	5.02		4.98	J
Trichloroethene	ND		5.00	5.00	4.74		4.58	

Client: Waste Management

Job Number: 280-33259-1

Method Blank - Batch: 280-139324

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-139324/5	Analysis Batch:	280-139324	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8619.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/27/2012 1145	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/27/2012 1145				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	1.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	1.0
1,2-Dichlorobenzene	ND		0.15	5.0
1,2-Dichloroethane	ND		0.13	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,4-Dichlorobenzene	ND		0.16	1.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	1.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	1.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	1.0
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	1.0
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	1.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	1.0
Styrene	ND		0.17	1.0
Tetrachloroethene	ND		0.20	1.0
Toluene	ND		0.17	1.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	1.0
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	1.0
Trichlorofluoromethane	ND		0.29	1.0
Vinyl acetate	ND		0.94	50

Client: Waste Management

Job Number: 280-33259-1

Method Blank - Batch: 280-139324

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-139324/5	Analysis Batch:	280-139324	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8619.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/27/2012 1145	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/27/2012 1145				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.10	1.0
Xylenes, Total	ND		0.19	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116	70 - 127
Toluene-d8 (Surr)	100	80 - 125
4-Bromofluorobenzene (Surr)	103	78 - 120
Dibromofluoromethane (Surr)	110	77 - 120

Client: Waste Management

Job Number: 280-33259-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-139324

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-139324/4	Analysis Batch:	280-139324	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8617.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/27/2012 1101	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/27/2012 1101				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-139324/7	Analysis Batch:	280-139324	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8620.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/27/2012 1212	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/27/2012 1212				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	105	100	70 - 135	5	20		
1,1-Dichloroethane	96	91	75 - 135	5	21	J	J
1,1-Dichloroethene	100	92	71 - 136	8	20		J
1,2-Dichloropropane	87	78	71 - 120	11	20		
1,3-Dichlorobenzene	87	83	74 - 135	4	20		
Benzene	85	86	74 - 135	1	20		
Bromodichloromethane	102	97	73 - 135	4	20		
Carbon tetrachloride	107	102	67 - 135	4	21		
Chlorobenzene	89	81	76 - 135	9	20		
Chloroform	101	98	76 - 120	3	20		J
Ethylbenzene	90	83	72 - 120	8	26		
Methylene Chloride	95	92	54 - 141	4	20		
Tetrachloroethene	89	84	70 - 135	6	20		
Toluene	91	87	73 - 120	4	20		
trans-1,2-Dichloroethene	96	90	75 - 135	6	24	J	J
Trichloroethene	92	88	73 - 135	5	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116	115	70 - 127
Toluene-d8 (Surr)	104	96	80 - 125
4-Bromofluorobenzene (Surr)	97	95	78 - 120
Dibromofluoromethane (Surr)	110	107	77 - 120

Client: Waste Management

Job Number: 280-33259-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-139324

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-139324/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-139324/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/27/2012 1101			Analysis Date:	09/27/2012 1212
Prep Date:	09/27/2012 1101			Prep Date:	09/27/2012 1212
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
1,1,1-Trichloroethane	5.00	5.00	5.24		5.00	
1,1-Dichloroethane	5.00	5.00	4.79	J	4.55	J
1,1-Dichloroethene	5.00	5.00	5.02		4.62	J
1,2-Dichloropropane	5.00	5.00	4.36		3.91	
1,3-Dichlorobenzene	5.00	5.00	4.33		4.14	
Benzene	5.00	5.00	4.24		4.28	
Bromodichloromethane	5.00	5.00	5.08		4.87	
Carbon tetrachloride	5.00	5.00	5.33		5.10	
Chlorobenzene	5.00	5.00	4.43		4.06	
Chloroform	5.00	5.00	5.06		4.89	J
Ethylbenzene	5.00	5.00	4.49		4.16	
Methylene Chloride	5.00	5.00	4.77		4.58	
Tetrachloroethene	5.00	5.00	4.43		4.18	
Toluene	5.00	5.00	4.54		4.37	
trans-1,2-Dichloroethene	5.00	5.00	4.80	J	4.52	J
Trichloroethene	5.00	5.00	4.62		4.39	

Client: Waste Management

Job Number: 280-33259-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-139324

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33420-C-5 MS	Analysis Batch:	280-139324	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8627.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/27/2012 1504			Final Weight/Volume:	20 mL
Prep Date:	09/27/2012 1504				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33420-C-5 MSD	Analysis Batch:	280-139324	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8628.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/27/2012 1526			Final Weight/Volume:	20 mL
Prep Date:	09/27/2012 1526				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	97	96	70 - 135	0	20		
1,1-Dichloroethane	91	90	75 - 135	1	21	J	J
1,1-Dichloroethene	88	75	71 - 136	16	20	J	J
1,2-Dichloropropane	81	81	71 - 120	0	20		
1,3-Dichlorobenzene	86	88	74 - 135	2	20		
Benzene	83	81	74 - 135	3	20		
Bromodichloromethane	93	97	73 - 135	4	20		
Carbon tetrachloride	99	99	67 - 135	0	21		
Chlorobenzene	86	86	76 - 135	0	20		
Chloroform	96	97	76 - 120	1	20	J	J
Ethylbenzene	85	85	72 - 120	0	26		
Methylene Chloride	83	86	54 - 141	4	20		
Tetrachloroethene	83	85	70 - 135	2	20		
Toluene	85	84	73 - 120	1	20		
trans-1,2-Dichloroethene	85	88	75 - 135	3	24	J	J
Trichloroethene	87	83	73 - 135	4	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119	114	70 - 127
Toluene-d8 (Surr)	99	101	80 - 125
4-Bromofluorobenzene (Surr)	103	104	78 - 120
Dibromofluoromethane (Surr)	107	106	77 - 120

Client: Waste Management

Job Number: 280-33259-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-139324

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33420-C-5 MS	Units: ug/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/27/2012 1504		
Prep Date:	09/27/2012 1504		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33420-C-5 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/27/2012 1526
Prep Date:	09/27/2012 1526
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1-Trichloroethane	ND	5.00	5.00	4.84		4.82	
1,1-Dichloroethane	ND	5.00	5.00	4.54	J	4.48	J
1,1-Dichloroethene	ND	5.00	5.00	4.39	J	3.75	J
1,2-Dichloropropane	ND	5.00	5.00	4.03		4.05	
1,3-Dichlorobenzene	ND	5.00	5.00	4.29		4.39	
Benzene	ND	5.00	5.00	4.16		4.04	
Bromodichloromethane	ND	5.00	5.00	4.63		4.83	
Carbon tetrachloride	ND	5.00	5.00	4.96		4.96	
Chlorobenzene	ND	5.00	5.00	4.32		4.31	
Chloroform	ND	5.00	5.00	4.82	J	4.86	J
Ethylbenzene	ND	5.00	5.00	4.27		4.25	
Methylene Chloride	ND	5.00	5.00	4.15		4.31	
Tetrachloroethene	ND	5.00	5.00	4.17		4.24	
Toluene	ND	5.00	5.00	4.24		4.18	
trans-1,2-Dichloroethene	ND	5.00	5.00	4.23	J	4.38	J
Trichloroethene	ND	5.00	5.00	4.33		4.16	

Client: Waste Management

Job Number: 280-33259-1

Method Blank - Batch: 680-249853

Method: 6010C
Preparation: 3030C

Lab Sample ID:	MB 680-249853/1-A	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1805	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Silver	ND		1.6	10
Barium	ND		1.0	100
Beryllium	ND		0.25	1.0
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Nickel	ND		4.0	50
Lead	ND		3.4	10
Vanadium	ND		2.4	25

Lab Control Sample - Batch: 680-249853

Method: 6010C
Preparation: 3030C

Lab Sample ID:	LCS 680-249853/2-A	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1811	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	50.9	102	75 - 125	
Barium	100	95.5	96	75 - 125	J
Beryllium	50.0	50.4	101	75 - 125	
Cobalt	50.0	49.9	100	75 - 125	
Chromium	100	96.7	97	75 - 125	
Nickel	100	103	103	75 - 125	
Lead	50.0	48.3	97	75 - 125	
Vanadium	100	98.7	99	75 - 125	

Client: Waste Management

Job Number: 280-33259-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249853

Method: 6010C
Preparation: 3030C

MS Lab Sample ID:	280-33259-1	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1846			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33259-1	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1851			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	101	98	75 - 125	3	20		
Barium	96	93	75 - 125	2	20		
Beryllium	101	99	75 - 125	3	20		
Cobalt	101	97	75 - 125	4	20		
Chromium	97	95	75 - 125	3	20		
Nickel	103	100	75 - 125	3	20		
Lead	98	96	75 - 125	2	20		
Vanadium	99	97	75 - 125	2	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249853

Method: 6010C
Preparation: 3030C

MS Lab Sample ID:	280-33259-1	Units:	ug/L	MSD Lab Sample ID:	280-33259-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/17/2012 1846			Analysis Date:	09/17/2012 1851
Prep Date:	09/15/2012 1246			Prep Date:	09/15/2012 1246
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Silver	ND		50.0	50.0	50.7	49.1
Barium	29	J	100	100	125	122
Beryllium	ND		50.0	50.0	50.7	49.4
Cobalt	ND		50.0	50.0	50.4	48.5
Chromium	ND		100	100	96.9	94.5
Nickel	ND		100	100	103	99.6
Lead	ND		50.0	50.0	49.0	48.2
Vanadium	ND		100	100	99.2	96.9

Client: Waste Management

Job Number: 280-33259-1

Method Blank - Batch: 680-249855

Method: 6020A
Preparation: 3030C

Lab Sample ID:	MB 680-249855/1-A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	179SMPL.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0850	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.40	10
Copper	ND		0.21	10
Cadmium	ND		0.20	1.0
Antimony	ND		0.99	6.0
Selenium	ND		0.21	10
Thallium	ND		0.10	5.5
Zinc	ND		2.6	10

Lab Control Sample - Batch: 680-249855

Method: 6020A
Preparation: 3030C

Lab Sample ID:	LCS 680-249855/2-A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	180SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0857	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	100	102	102	75 - 125	
Copper	100	92.8	93	75 - 125	
Cadmium	50.0	48.9	98	75 - 125	
Antimony	50.0	49.7	99	75 - 125	
Selenium	100	101	101	75 - 125	
Thallium	40.0	37.2	93	75 - 125	
Zinc	100	97.5	98	75 - 125	

Client: Waste Management

Job Number: 280-33259-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249855

Method: 6020A
Preparation: 3030C

MS Lab Sample ID:	280-33259-1	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	182SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0912			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33259-1	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	183SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0919			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	102	98	75 - 125	4	20		
Copper	93	90	75 - 125	4	20		
Cadmium	101	96	75 - 125	5	20		
Antimony	99	94	75 - 125	4	20		
Selenium	103	98	75 - 125	5	20		
Thallium	93	91	75 - 125	2	20		
Zinc	97	94	75 - 125	4	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249855

Method: 6020A
Preparation: 3030C

MS Lab Sample ID:	280-33259-1	Units: ug/L	MSD Lab Sample ID: 280-33259-1
Client Matrix:	Water		Client Matrix: Water
Dilution:	5.0		Dilution: 5.0
Analysis Date:	09/18/2012 0912		Analysis Date: 09/18/2012 0919
Prep Date:	09/15/2012 1252		Prep Date: 09/15/2012 1252
Leach Date:	N/A		Leach Date: N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	ND		100	100	102	98.5
Copper	0.40	J	100	100	93.7	90.2
Cadmium	ND		50.0	50.0	50.4	47.8
Antimony	ND		50.0	50.0	49.3	47.2
Selenium	ND		100	100	103	98.0
Thallium	ND		40.0	40.0	37.1	36.5
Zinc	ND		100	100	97.2	93.8

Client: Waste Management

Job Number: 280-33259-1

Laboratory Chronicle

Lab ID: 280-33259-1 **Client ID:** 3406-S02

Sample Date/Time: 09/13/2012 11:40 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33259-C-1		280-139086		09/26/2012 15:06	1	TAL DEN	JS
A:8260B	280-33259-C-1		280-139086		09/26/2012 15:06	1	TAL DEN	JS
P:3030C	280-33259-A-1-E		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	280-33259-A-1-E		680-250057	680-249853	09/17/2012 18:17	1	TAL SAV	BCB
P:3030C	280-33259-A-1-B		680-250270	680-249855	09/15/2012 12:52	1	TAL SAV	RAM
A:6020A	280-33259-A-1-B		680-250270	680-249855	09/18/2012 09:04	1	TAL SAV	BR
A:Field Sampling	280-33259-A-1		280-137582		09/13/2012 11:40	1	TAL DEN	FS

Lab ID: 280-33259-1 MS **Client ID:** 3406-S02

Sample Date/Time: 09/13/2012 11:40 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3030C	280-33259-A-1-H MS		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	280-33259-A-1-H MS		680-250057	680-249853	09/17/2012 18:46	1	TAL SAV	BCB
P:3030C	280-33259-A-1-C MS		680-250270	680-249855	09/15/2012 12:52	5	TAL SAV	RAM
A:6020A	280-33259-A-1-C MS		680-250270	680-249855	09/18/2012 09:12	5	TAL SAV	BR

Lab ID: 280-33259-1 MSD **Client ID:** 3406-S02

Sample Date/Time: 09/13/2012 11:40 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3030C	280-33259-A-1-I MSD		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	280-33259-A-1-I MSD		680-250057	680-249853	09/17/2012 18:51	1	TAL SAV	BCB
P:3030C	280-33259-A-1-D MSD		680-250270	680-249855	09/15/2012 12:52	5	TAL SAV	RAM
A:6020A	280-33259-A-1-D MSD		680-250270	680-249855	09/18/2012 09:19	5	TAL SAV	BR

Lab ID: 280-33259-2 **Client ID:** 3406-S03

Sample Date/Time: 09/13/2012 11:03 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33259-D-2		280-139324		09/27/2012 12:50	1	TAL DEN	JS
A:8260B	280-33259-D-2		280-139324		09/27/2012 12:50	1	TAL DEN	JS
P:3030C	280-33259-A-2-C		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	280-33259-A-2-C		680-250057	680-249853	09/17/2012 18:57	1	TAL SAV	BCB
P:3030C	280-33259-A-2-B		680-250270	680-249855	09/15/2012 12:52	1	TAL SAV	RAM
A:6020A	280-33259-A-2-B		680-250270	680-249855	09/18/2012 09:26	1	TAL SAV	BR
A:Field Sampling	280-33259-A-2		280-137582		09/13/2012 11:03	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-33259-1

Laboratory Chronicle

Lab ID: 280-33259-3 **Client ID:** 3406-S04

Sample Date/Time: 09/13/2012 11:08 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33259-B-3		280-139086		09/26/2012 15:49	1	TAL DEN	JS
A:8260B	280-33259-B-3		280-139086		09/26/2012 15:49	1	TAL DEN	JS
P:3030C	280-33259-A-3-C		680-250057	680-249853	09/15/2012 12:48	1	TAL SAV	RAM
A:6010C	280-33259-A-3-C		680-250057	680-249853	09/17/2012 19:03	1	TAL SAV	BCB
P:3030C	280-33259-A-3-B		680-250270	680-249855	09/15/2012 12:52	1	TAL SAV	RAM
A:6020A	280-33259-A-3-B		680-250270	680-249855	09/18/2012 09:48	1	TAL SAV	BR
A:Field Sampling	280-33259-A-3		280-137582		09/13/2012 11:08	1	TAL DEN	FS

Lab ID: 280-33259-4 **Client ID:** 3406-S05

Sample Date/Time: 09/13/2012 10:51 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33259-D-4		280-139086		09/26/2012 16:10	1	TAL DEN	JS
A:8260B	280-33259-D-4		280-139086		09/26/2012 16:10	1	TAL DEN	JS
P:3030C	280-33259-A-4-C		680-250057	680-249853	09/15/2012 12:48	1	TAL SAV	RAM
A:6010C	280-33259-A-4-C		680-250057	680-249853	09/17/2012 19:09	1	TAL SAV	BCB
P:3030C	280-33259-A-4-B		680-250270	680-249855	09/15/2012 12:52	1	TAL SAV	RAM
A:6020A	280-33259-A-4-B		680-250270	680-249855	09/18/2012 09:56	1	TAL SAV	BR
A:Field Sampling	280-33259-A-4		280-137582		09/13/2012 10:51	1	TAL DEN	FS

Lab ID: 280-33259-5 **Client ID:** TRIP BLANK

Sample Date/Time: 09/13/2012 10:51 Received Date/Time: 09/14/2012 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33259-A-5		280-139086		09/26/2012 11:51	1	TAL DEN	JS
A:8260B	280-33259-A-5		280-139086		09/26/2012 11:51	1	TAL DEN	JS

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-139086/5		280-139086		09/26/2012 11:29	1	TAL DEN	JS
A:8260B	MB 280-139086/5		280-139086		09/26/2012 11:29	1	TAL DEN	JS
P:5030B	MB 280-139324/5		280-139324		09/27/2012 11:45	1	TAL DEN	JS
A:8260B	MB 280-139324/5		280-139324		09/27/2012 11:45	1	TAL DEN	JS
P:3030C	MB 680-249853/1-A		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	MB 680-249853/1-A		680-250057	680-249853	09/17/2012 18:05	1	TAL SAV	BCB
P:3030C	MB 680-249855/1-A		680-250270	680-249855	09/15/2012 12:52	1	TAL SAV	RAM
A:6020A	MB 680-249855/1-A		680-250270	680-249855	09/18/2012 08:50	1	TAL SAV	BR

Client: Waste Management

Job Number: 280-33259-1

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-139086/4		280-139086		09/26/2012 10:45	1	TAL DEN	JS
A:8260B	LCS 280-139086/4		280-139086		09/26/2012 10:45	1	TAL DEN	JS
P:5030B	LCS 280-139324/4		280-139324		09/27/2012 11:01	1	TAL DEN	JS
A:8260B	LCS 280-139324/4		280-139324		09/27/2012 11:01	1	TAL DEN	JS
P:3030C	LCS 680-249853/2-A		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	LCS 680-249853/2-A		680-250057	680-249853	09/17/2012 18:11	1	TAL SAV	BCB
P:3030C	LCS 680-249855/2-A		680-250270	680-249855	09/15/2012 12:52	5	TAL SAV	RAM
A:6020A	LCS 680-249855/2-A		680-250270	680-249855	09/18/2012 08:57	5	TAL SAV	BR

Lab ID: **LCSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-139086/7		280-139086		09/26/2012 11:07	1	TAL DEN	JS
A:8260B	LCSD 280-139086/7		280-139086		09/26/2012 11:07	1	TAL DEN	JS
P:5030B	LCSD 280-139324/7		280-139324		09/27/2012 12:12	1	TAL DEN	JS
A:8260B	LCSD 280-139324/7		280-139324		09/27/2012 12:12	1	TAL DEN	JS

Lab ID: **MS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33242-I-1 MS		280-139086		09/26/2012 13:19	1	TAL DEN	JS
A:8260B	280-33242-I-1 MS		280-139086		09/26/2012 13:19	1	TAL DEN	JS
P:5030B	280-33420-C-5 MS		280-139324		09/27/2012 15:04	1	TAL DEN	JS
A:8260B	280-33420-C-5 MS		280-139324		09/27/2012 15:04	1	TAL DEN	JS

Lab ID: **MSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33242-I-1 MSD		280-139086		09/26/2012 13:40	1	TAL DEN	JS
A:8260B	280-33242-I-1 MSD		280-139086		09/26/2012 13:40	1	TAL DEN	JS
P:5030B	280-33420-C-5 MSD		280-139324		09/27/2012 15:26	1	TAL DEN	JS
A:8260B	280-33420-C-5 MSD		280-139324		09/27/2012 15:26	1	TAL DEN	JS

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-15241-5755.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.14060	E-Mail: betsy.sara@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: Southern Area 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 770-805-3366(Tel)	PO #: Purchase Order not requir			
Email: alacsama@wm.com	WO #:			
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA Surface Water Mar Sep			
Site: North Carolina	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Metals (TA Savannah)	8260B - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A		
S02	9-13	1140	G	W	N		1	3		
S03	9-13	1103	G	W	N		1	3		
S04	9-13	1118	G	W	N		1	3		
S05	9-13	1051	G	W	N		1	3		
TRIP	9-13	—	G	W	N			✓		

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 9-13-12 / 1500	Company: PRO-TECH	Received by:	Date/Time: 9/14/12 930	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.0°C TR Sec 9-14-12

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: S02 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
09 13 12	–	–	–	–	–

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: Y or N

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: –
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1140	NA 1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
09 13 12	7.86	136	17.6	69	8.2	433	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 70°F Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/13/12	DAN ARMOUR	[signature]	PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: S03 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
09 13 12					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —

Sampling Device: F

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
11:03	NA 1st	1st	1st					
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
09 13 12	7.31	106	16.8	27	7.7	441	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 70°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/13/12	DAN ARMOUR	[signature]	PRO-TEAM
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: S04 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
09 13 12	—	—	—	—	—

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: —
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1113	NA	1st	1st					
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
09 13 12	7.84	106	18.0	11	7.9	58.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR, 70°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/13/12	DAN ARNOLD JR	[signature]	PRO-TECH
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: 505 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
091312	—	—	—	—	—

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: —
A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: F

X-Other:

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1051	NA 1st	1st						
	2nd	2nd						
	3rd	3rd						
	4th	4th						
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
091312	736	179	162	14	52	873	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLEAR Odor: ____ Color: NONE Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: Clear 70°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/13/12	DAN ARMOUR	[signature]	PRO-TECH
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-33259-1

Login Number: 33259

List Source: TestAmerica Denver

List Number: 1

Creator: Cofoid, Stephen T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-33259-1

Login Number: 33259
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah
List Creation: 09/15/12 11:23 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 280-33238-1

Job Description: 134|Piedmont Landfill

For:
Waste Management
Closed Site Mgmnt Grp
1850 Parkway Place, Suite 600
Marietta, GA 30067

Attention: Mr. Al Lacsamana

Approved for release.
Betsy A Sara
Project Manager II
9/28/2012 4:34 PM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
09/28/2012

cc: Mr. Van Burbach
Mr. Al Lacsamana

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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CASE NARRATIVE

Client: Waste Management

Project: 134|Piedmont Landfill

Report Number: 280-33238-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 09/14/2012; the samples arrived in good condition and on ice. The temperature of the cooler at receipt was 2.7 C.

The nitric acid preserved metals volume for sample 3406-T01 arrived at pH value greater than two. The sample was further preserved prior to metals analysis. The client was notified 9/14/12.

Holding Times

The holding times were within established control limits.

Method Blanks

Total Iron Method 6010C was detected in the Method Blank at a level about the reporting limit. Because the associated sample exhibited a detection of Total Iron greater than ten times the result of the Method Blank, corrective action was deemed unnecessary.

Ammonia Method 350.1, Total Alkalinity Method 2320B, Bicarbonate Alkalinity Method 2320B and Total Organic Carbon Method 5310B were detected in the Method Blanks below the project established reporting limits. No corrective action is taken for any values in Method Blanks that are below the requested reporting limits. The Method Blank data are included at the end of this report.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS)

All Laboratory Control Samples were within established control limits.

Matrix Spike and Matrix Spike Duplicate (MS/MSD)

The Matrix Spikes and Matrix Spike Duplicates performed on samples from other clients exhibited recoveries outside control limits for Ammonia Method 350.1 and Chemical Oxygen Demand (COD) Method 410.4. Because the corresponding Laboratory Control Samples and the Method Blank samples were within control limits, these anomalies may be due to matrix interference and no corrective action was taken.

All other MS/MSD samples were within established control limits.

Organics

The Method 8260B reporting limits for the sample T01 are elevated due to foamy matrix.

General Comments

The analysis for metals was performed at TestAmerica's Savannah facility.

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone: 912.354.7858

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-33238-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-33238-1	**3406-T01**					
2-Butanone (MEK)		100	J	4000	ug/L	8260B
Acetone		240	J	4000	ug/L	8260B
Ethylbenzene		9.0	J	200	ug/L	8260B
Xylenes, Total		26	J	160	ug/L	8260B
Barium		1200		100	ug/L	6010C
Calcium		45000		200	ug/L	6010C
Cobalt		32		10	ug/L	6010C
Chromium		90		10	ug/L	6010C
Copper		180		15	ug/L	6010C
Iron		7700	B	100	ug/L	6010C
Potassium		350000		30000	ug/L	6010C
Magnesium		44000		200	ug/L	6010C
Manganese		210		10	ug/L	6010C
Sodium		1100000		250000	ug/L	6010C
Nickel		210		50	ug/L	6010C
Selenium		14	J	15	ug/L	6010C
Vanadium		48		25	ug/L	6010C
Zinc		110		20	ug/L	6010C
Arsenic		19	J	25	ug/L	6020A
Antimony		6.2	J	10	ug/L	6020A
Field pH		7.17			SU	Field Sampling
Field Conductivity		1380			umhos/cm	Field Sampling
Field Temperature		16.8			Degrees C	Field Sampling
Field Turbidity		69.6			NTU	Field Sampling
Field Dissolved Oxygen		2.3			mg/L	Field Sampling
Field EH/ORP		-2.4			millivolts	Field Sampling
Chloride		1800		15	mg/L	300.0
Sulfate		12	J	25	mg/L	300.0
Ammonia		1000	B	8.0	mg/L	350.1
Phosphorus, Total		0.98		0.050	mg/L	365.1
Chemical Oxygen Demand		850		500	mg/L	410.4
Total Alkalinity		4900	B	5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		4900	B	5.0	mg/L	SM 2320B
Total Dissolved Solids		5100		100	mg/L	SM 2540C
Total Suspended Solids		14	J	20	mg/L	SM 2540D
Total Organic Carbon - Average		290	B	7.0	mg/L	SM 5310B
Biochemical Oxygen Demand		60		25	mg/L	SM5210B

METHOD SUMMARY

Client: Waste Management

Job Number: 280-33238-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Nitrogen, Ammonia	TAL DEN	MCAWW 350.1	
Phosphorus, Total	TAL DEN	EPA 365.1	
Phosphorus, Total	TAL DEN		MCAWW 365.2/365.3/365
COD	TAL DEN	MCAWW 410.4	
Nitrogen, Nitrate-Nitrite	TAL DEN	SM Nitrate by calc	
Alkalinity	TAL DEN	SM SM 2320B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
Solids, Total Suspended (TSS)	TAL DEN	SM SM 2540D	
Organic Carbon, Total (TOC)	TAL DEN	SM SM 5310B	
BOD, 5 Day	TAL DEN	SM SM5210B	
Field Sampling	TAL DEN	EPA Field Sampling	
Metals (ICP)	TAL SAV	SW846 6010C	
Preparation, Extractable Metals	TAL SAV		SM 3030C
Metals (ICP/MS)	TAL SAV	SW846 6020A	
Preparation, Extractable Metals	TAL SAV		SM 3030C
Mercury (CVAA)	TAL SAV	SW846 7470A	
Preparation, Mercury	TAL SAV		SW846 7470A

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Waste Management

Job Number: 280-33238-1

Method	Analyst	Analyst ID
SW846 8260B	Seifert, Judy	JS
SW846 6010C	Bland, Brian	BCB
SW846 6020A	Robertson, Bryn	BR
SW846 7470A	Umbehr, Uli	UU
EPA Field Sampling	Field, Sampler	FS
MCAWW 300.0	Kudla, Ewa	EK
MCAWW 350.1	Scott, Samantha J	SJS
EPA 365.1	Woolley, Mark	MW
MCAWW 410.4	Bandy, Darlene F	DFB
SM Nitrate by calc	Sullivan, Roxanne	RS
SM SM 2320B	Ayala, Delaina	DA
SM SM 2540C	Krinsky, Aaron	AK
SM SM 2540D	Hostetler, Jeffrey M	JMH
SM SM 5310B	Bandy, Darlene F	DFB
SM SM5210B	Kilker, Lorelei M	LMK

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-33238-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-33238-1	3406-T01	Water	09/13/2012 1030	09/14/2012 0900
280-33238-2TB	TRIP BLANK	Water	09/13/2012 1030	09/14/2012 0900

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-33238-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-33238-1

Client Matrix: Water

Date Sampled: 09/13/2012 1030

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8601.D
Dilution:	1.0			Initial Weight/Volume:	0.5 mL
Analysis Date:	09/26/2012 1942			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1942				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		8.4	200
1,1,1-Trichloroethane	ND		6.4	200
1,1,2,2-Tetrachloroethane	ND		8.4	120
1,1,2-Trichloroethane	ND		11	200
1,1-Dichloroethane	ND		8.8	200
1,1-Dichloroethene	ND		9.2	200
1,2,3-Trichloropropane	ND		13	320
1,2-Dibromo-3-Chloropropane	ND		19	520
1,2-Dibromoethane	ND		7.2	120
1,2-Dichlorobenzene	ND		6.0	400
1,2-Dichloroethane	ND		5.2	120
1,2-Dichloropropane	ND		7.2	120
1,4-Dichlorobenzene	ND		6.4	120
2-Butanone (MEK)	100	J	80	4000
2-Hexanone	ND		68	2000
4-Methyl-2-pentanone (MIBK)	ND		39	4000
Acetone	240	J	76	4000
Acrylonitrile	ND		56	8000
Benzene	ND		6.4	120
Bromochloromethane	ND		4.0	120
Bromodichloromethane	ND		6.8	120
Bromoform	ND		7.6	120
Bromomethane	ND		8.4	400
Carbon disulfide	ND		18	4000
Carbon tetrachloride	ND		7.6	220
Chlorobenzene	ND		6.8	120
Chloroethane	ND		16	400
Chloroform	ND		6.4	200
Chloromethane	ND		12	220
cis-1,2-Dichloroethene	ND		6.0	200
cis-1,3-Dichloropropene	ND		6.4	220
Dibromochloromethane	ND		6.8	120
Dibromomethane	ND		6.8	400
Ethylbenzene	9.0	J	6.4	200
Iodomethane	ND		9.2	400
Methylene Chloride	ND		13	220
Styrene	ND		6.8	400
Tetrachloroethene	ND		8.0	120
Toluene	ND		6.8	200
trans-1,2-Dichloroethene	ND		6.0	200
trans-1,3-Dichloropropene	ND		7.6	220
trans-1,4-Dichloro-2-butene	ND		32	4000
Trichloroethene	ND		6.4	120
Trichlorofluoromethane	ND		12	200
Vinyl acetate	ND		38	2000
Vinyl chloride	ND		4.0	220

Client: Waste Management

Job Number: 280-33238-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-33238-1

Client Matrix: Water

Date Sampled: 09/13/2012 1030

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8601.D
Dilution:	1.0			Initial Weight/Volume:	0.5 mL
Analysis Date:	09/26/2012 1942			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1942				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	26	J	7.6	160

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	89		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120

Client: Waste Management

Job Number: 280-33238-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-33238-2TB

Client Matrix: Water

Date Sampled: 09/13/2012 1030

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8602.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 2004			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 2004				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	5.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	8.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	3.0
1,2-Dichlorobenzene	ND		0.15	10
1,2-Dichloroethane	ND		0.13	3.0
1,2-Dichloropropane	ND		0.18	3.0
1,4-Dichlorobenzene	ND		0.16	3.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	3.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	3.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	5.5
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	5.5
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	5.5
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	5.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	5.5
Styrene	ND		0.17	10
Tetrachloroethene	ND		0.20	3.0
Toluene	ND		0.17	5.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	5.5
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	3.0
Trichlorofluoromethane	ND		0.29	5.0
Vinyl acetate	ND		0.94	50
Vinyl chloride	ND		0.10	5.5

Client: Waste Management

Job Number: 280-33238-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-33238-2TB

Client Matrix: Water

Date Sampled: 09/13/2012 1030

Date Received: 09/14/2012 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	G8602.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 2004			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 2004				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 127
Toluene-d8 (Surr)	95		80 - 125
4-Bromofluorobenzene (Surr)	88		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120

Client: Waste Management

Job Number: 280-33238-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-33238-1

Client Matrix: Water

Date Sampled: 09/13/2012 1030

Date Received: 09/14/2012 0900

6010C Metals (ICP)

Analysis Method:	6010C	Analysis Batch:	680-250057	Instrument ID:	ICPE
Prep Method:	3030C	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1915			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1248				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	ND		1.6	10
Barium	1200		1.0	100
Calcium	45000		100	200
Cobalt	32		4.0	10
Chromium	90		4.0	10
Copper	180		10	15
Iron	7700	B	27	100
Magnesium	44000		31	200
Manganese	210		2.0	10
Nickel	210		4.0	50
Lead	ND		3.4	10
Selenium	14	J	6.4	15
Vanadium	48		2.4	25
Zinc	110		10	20

Analysis Method:	6010C	Analysis Batch:	680-250147	Instrument ID:	ICPD
Prep Method:	3030C	Prep Batch:	680-249853	Lab File ID:	D091812
Dilution:	10			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 1155			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1248				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	350000		860	30000

Analysis Method:	6010C	Analysis Batch:	680-250147	Instrument ID:	ICPD
Prep Method:	3030C	Prep Batch:	680-249853	Lab File ID:	D091812
Dilution:	50			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 1200			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1248				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Sodium	1100000		14000	250000

6020A Metals (ICP/MS)

Analysis Method:	6020A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Prep Method:	3030C	Prep Batch:	680-249855	Lab File ID:	191SMPL.D
Dilution:	5.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 1018			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				

Analyte	Result (ug/L)	Qualifier	MDL	RL

Client: Waste Management

Job Number: 280-33238-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-33238-1

Client Matrix: Water

Date Sampled: 09/13/2012 1030

Date Received: 09/14/2012 0900

6020A Metals (ICP/MS)

Analyte	Result (ug/L)	Qualifier	MDL	RL
Arsenic	19	J	2.0	25
Cadmium	ND		1.0	5.0
Beryllium	ND		0.35	5.0
Antimony	6.2	J	5.0	10
Thallium	ND		0.50	5.0

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	680-250283	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	680-249925	Lab File ID:	C091812A.CSV
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 1412			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1048				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	ND		0.091	0.20

General Chemistry

Client Sample ID: **3406-T01**

Lab Sample ID: 280-33238-1 Date Sampled: 09/13/2012 1030
Client Matrix: Water Date Received: 09/14/2012 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	1800		mg/L	13	15	50	300.0
Analysis Batch: 280-138228	Analysis Date: 09/19/2012 2146						
Sulfate	12	J	mg/L	1.2	25	5.0	300.0
Analysis Batch: 280-138228	Analysis Date: 09/19/2012 2130						
Ammonia	1000	B	mg/L	4.4	8.0	200	350.1
Analysis Batch: 280-138320	Analysis Date: 09/20/2012 1518						
Phosphorus, Total	0.98		mg/L	0.0050	0.050	1.0	365.1
Analysis Batch: 280-138962	Analysis Date: 09/24/2012 1945						
Prep Batch: 280-138927	Prep Date: 09/24/2012 1600						
Chemical Oxygen Demand	850		mg/L	41	500	10	410.4
Analysis Batch: 280-137798	Analysis Date: 09/19/2012 1238						
Nitrate as N	ND		mg/L	0.019	0.50	1.0	Nitrate by calc
Analysis Batch: 280-138940	Analysis Date: 09/25/2012 1250						
Total Alkalinity	4900	B	mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-139220	Analysis Date: 09/26/2012 1120						
Bicarbonate Alkalinity as CaCO3	4900	B	mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-139220	Analysis Date: 09/26/2012 1120						
Carbonate Alkalinity as CaCO3	ND		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-139220	Analysis Date: 09/26/2012 1120						
Total Dissolved Solids	5100		mg/L	47	100	1.0	SM 2540C
Analysis Batch: 280-137559	Analysis Date: 09/17/2012 0933						
Total Suspended Solids	14	J	mg/L	5.5	20	1.0	SM 2540D
Analysis Batch: 280-138328	Analysis Date: 09/20/2012 1929						
Total Organic Carbon - Average	290	B	mg/L	1.1	7.0	7.0	SM 5310B
Analysis Batch: 280-137897	Analysis Date: 09/18/2012 0509						
Biochemical Oxygen Demand	60		mg/L	3.0	25	5.0	SM5210B
Analysis Batch: 280-137287	Analysis Date: 09/14/2012 1200						

Field Service / Mobile Lab

Client Sample ID: **3406-T01**

Lab Sample ID: 280-33238-1

Client Matrix: Water

Date Sampled: 09/13/2012 1030

Date Received: 09/14/2012 0900

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.17		SU	1.0	Field Sampling	280-137370	09/13/2012 1030
Field Conductivity	1380		umhos/cm	1.0	Field Sampling	280-137370	09/13/2012 1030
Field Temperature	16.8		Degrees C	1.0	Field Sampling	280-137370	09/13/2012 1030
Field Turbidity	69.6		NTU	1.0	Field Sampling	280-137370	09/13/2012 1030
Field Dissolved Oxygen	2.3		mg/L	1.0	Field Sampling	280-137370	09/13/2012 1030
Field EH/ORP	-2.4		millivolts	1.0	Field Sampling	280-137370	09/13/2012 1030

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-33238-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-33238-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-139086					
LCS 280-139086/4	Lab Control Sample	T	Water	8260B	
LCSD 280-139086/7	Lab Control Sample Duplicate	T	Water	8260B	
MB 280-139086/5	Method Blank	T	Water	8260B	
280-33238-1	3406-T01	T	Water	8260B	
280-33238-2TB	TRIP BLANK	T	Water	8260B	
280-33242-I-1 MS	Matrix Spike	T	Water	8260B	
280-33242-I-1 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-33238-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-249853					
LCS 680-249853/2-A	Lab Control Sample	T	Water	3030C	
MB 680-249853/1-A	Method Blank	T	Water	3030C	
280-33238-1	3406-T01	T	Water	3030C	
280-33259-A-1-H MS	Matrix Spike	T	Water	3030C	
280-33259-A-1-I MSD	Matrix Spike Duplicate	T	Water	3030C	
Prep Batch: 680-249855					
LCS 680-249855/2-A	Lab Control Sample	T	Water	3030C	
MB 680-249855/1-A	Method Blank	T	Water	3030C	
280-33238-1	3406-T01	T	Water	3030C	
280-33259-A-1-C MS	Matrix Spike	T	Water	3030C	
280-33259-A-1-D MSD	Matrix Spike Duplicate	T	Water	3030C	
Prep Batch: 680-249925					
LCS 680-249925/2-A	Lab Control Sample	T	Water	7470A	
MB 680-249925/1-A	Method Blank	T	Water	7470A	
280-33238-1	3406-T01	T	Water	7470A	
680-82898-S-3-B MS	Matrix Spike	T	Water	7470A	
680-82898-S-3-C MSD	Matrix Spike Duplicate	T	Water	7470A	
Analysis Batch:680-250057					
LCS 680-249853/2-A	Lab Control Sample	T	Water	6010C	680-249853
MB 680-249853/1-A	Method Blank	T	Water	6010C	680-249853
280-33238-1	3406-T01	T	Water	6010C	680-249853
280-33259-A-1-H MS	Matrix Spike	T	Water	6010C	680-249853
280-33259-A-1-I MSD	Matrix Spike Duplicate	T	Water	6010C	680-249853
Analysis Batch:680-250147					
280-33238-1	3406-T01	T	Water	6010C	680-249853
Analysis Batch:680-250270					
LCS 680-249855/2-A	Lab Control Sample	T	Water	6020A	680-249855
MB 680-249855/1-A	Method Blank	T	Water	6020A	680-249855
280-33238-1	3406-T01	T	Water	6020A	680-249855
280-33259-A-1-C MS	Matrix Spike	T	Water	6020A	680-249855
280-33259-A-1-D MSD	Matrix Spike Duplicate	T	Water	6020A	680-249855
Analysis Batch:680-250283					
LCS 680-249925/2-A	Lab Control Sample	T	Water	7470A	680-249925
MB 680-249925/1-A	Method Blank	T	Water	7470A	680-249925
280-33238-1	3406-T01	T	Water	7470A	680-249925
680-82898-S-3-B MS	Matrix Spike	T	Water	7470A	680-249925
680-82898-S-3-C MSD	Matrix Spike Duplicate	T	Water	7470A	680-249925

Client: Waste Management

Job Number: 280-33238-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
T = Total					
Field Service / Mobile Lab					
Analysis Batch:280-137370					
280-33238-1	3406-T01	T	Water	Field Sampling	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-33238-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
T = Total					
Field Service / Mobile Lab					
Analysis Batch:280-137370					
280-33238-1	3406-T01	T	Water	Field Sampling	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-33238-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-137287					
LCS 280-137287/3	Lab Control Sample	T	Water	SM5210B	
LCSD 280-137287/5	Lab Control Sample Duplicate	T	Water	SM5210B	
MB 280-137287/6	Method Blank	T	Water	SM5210B	
280-33238-1	3406-T01	T	Water	SM5210B	
280-33238-1DU	Duplicate	T	Water	SM5210B	
Analysis Batch:280-137559					
LCS 280-137559/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-137559/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-137559/1	Method Blank	T	Water	SM 2540C	
280-33177-B-1 DU	Duplicate	T	Water	SM 2540C	
280-33238-1	3406-T01	T	Water	SM 2540C	
Analysis Batch:280-137798					
LCS 280-137798/3	Lab Control Sample	T	Water	410.4	
LCSD 280-137798/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-137798/5	Method Blank	T	Water	410.4	
280-33166-B-2 MS	Matrix Spike	T	Water	410.4	
280-33166-B-2 MSD	Matrix Spike Duplicate	T	Water	410.4	
280-33238-1	3406-T01	T	Water	410.4	
Analysis Batch:280-137897					
LCS 280-137897/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-137897/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-137897/5	Method Blank	T	Water	SM 5310B	
280-33238-1	3406-T01	T	Water	SM 5310B	
280-33299-B-1 MS	Matrix Spike	T	Water	SM 5310B	
280-33299-B-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
Analysis Batch:280-138228					
LCS 280-138228/6	Lab Control Sample	T	Water	300.0	
LCSD 280-138228/11	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-138228/12	Method Blank	T	Water	300.0	
280-33238-1	3406-T01	T	Water	300.0	
280-33242-C-1 DU	Duplicate	T	Water	300.0	
280-33242-C-1 MS	Matrix Spike	T	Water	300.0	
280-33242-C-1 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-33422-A-10 DU	Duplicate	T	Water	300.0	
280-33422-A-10 MS	Matrix Spike	T	Water	300.0	
280-33422-A-10 MSD	Matrix Spike Duplicate	T	Water	300.0	

Client: Waste Management

Job Number: 280-33238-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-138320					
LCS 280-138320/21	Lab Control Sample	T	Water	350.1	
LCS 280-138320/86	Lab Control Sample	T	Water	350.1	
LCSD 280-138320/22	Lab Control Sample Duplicate	T	Water	350.1	
LCSD 280-138320/87	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-138320/168	Method Blank	T	Water	350.1	
MB 280-138320/20	Method Blank	T	Water	350.1	
280-32869-B-23 MS	Matrix Spike	T	Water	350.1	
280-32869-B-23 MSD	Matrix Spike Duplicate	T	Water	350.1	
280-33238-1	3406-T01	T	Water	350.1	
Analysis Batch:280-138328					
LCS 280-138328/2	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-138328/3	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-138328/1	Method Blank	T	Water	SM 2540D	
280-33238-1	3406-T01	T	Water	SM 2540D	
280-33261-A-1 DU	Duplicate	T	Water	SM 2540D	
Prep Batch: 280-138927					
LCS 280-138927/3-A	Lab Control Sample	T	Water	365.2/365.3/365	
LCSD 280-138927/4-A	Lab Control Sample Duplicate	T	Water	365.2/365.3/365	
MB 280-138927/5-A	Method Blank	T	Water	365.2/365.3/365	
280-33238-1	3406-T01	T	Water	365.2/365.3/365	
280-33323-B-5-B MS	Matrix Spike	T	Water	365.2/365.3/365	
280-33323-B-5-C MSD	Matrix Spike Duplicate	T	Water	365.2/365.3/365	
Analysis Batch:280-138940					
280-33238-1	3406-T01	T	Water	Nitrate by calc	
Analysis Batch:280-138962					
LCS 280-138927/3-A	Lab Control Sample	T	Water	365.1	280-138927
LCSD 280-138927/4-A	Lab Control Sample Duplicate	T	Water	365.1	280-138927
MB 280-138927/5-A	Method Blank	T	Water	365.1	280-138927
280-33238-1	3406-T01	T	Water	365.1	280-138927
280-33323-B-5-B MS	Matrix Spike	T	Water	365.1	280-138927
280-33323-B-5-C MSD	Matrix Spike Duplicate	T	Water	365.1	280-138927
Analysis Batch:280-139220					
LCS 280-139220/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-139220/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-139220/6	Method Blank	T	Water	SM 2320B	
280-33238-1	3406-T01	T	Water	SM 2320B	
280-33238-1DU	Duplicate	T	Water	SM 2320B	

Client: Waste Management

Job Number: 280-33238-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis

T = Total

Client: Waste Management

Job Number: 280-33238-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec	DBFM %Rec
280-33238-1	3406-T01	102	95	89	103
280-33238-2	TRIP BLANK	103	95	88	100
MB 280-139086/5		115	102	100	114
LCS 280-139086/4		111	98	95	107
LCSD 280-139086/7		116	96	100	111
280-33242-I-1 MS		109	92	85	100
280-33242-I-1 MSD		106	92	90	101

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120
DBFM = Dibromofluoromethane (Surr)	77-120

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-139086

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-139086/5	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8578.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1129	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1129				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.21	5.0
1,1,1-Trichloroethane	ND		0.16	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	3.0
1,1,2-Trichloroethane	ND		0.27	5.0
1,1-Dichloroethane	ND		0.22	5.0
1,1-Dichloroethene	ND		0.23	5.0
1,2,3-Trichloropropane	ND		0.33	8.0
1,2-Dibromo-3-Chloropropane	ND		0.47	13
1,2-Dibromoethane	ND		0.18	3.0
1,2-Dichlorobenzene	ND		0.15	10
1,2-Dichloroethane	ND		0.13	3.0
1,2-Dichloropropane	ND		0.18	3.0
1,4-Dichlorobenzene	ND		0.16	3.0
2-Butanone (MEK)	ND		2.0	100
2-Hexanone	ND		1.7	50
4-Methyl-2-pentanone (MIBK)	ND		0.98	100
Acetone	ND		1.9	100
Acrylonitrile	ND		1.4	200
Benzene	ND		0.16	3.0
Bromochloromethane	ND		0.10	3.0
Bromodichloromethane	ND		0.17	3.0
Bromoform	ND		0.19	3.0
Bromomethane	ND		0.21	10
Carbon disulfide	ND		0.45	100
Carbon tetrachloride	ND		0.19	5.5
Chlorobenzene	ND		0.17	3.0
Chloroethane	ND		0.41	10
Chloroform	ND		0.16	5.0
Chloromethane	ND		0.30	5.5
cis-1,2-Dichloroethene	ND		0.15	5.0
cis-1,3-Dichloropropene	ND		0.16	5.5
Dibromochloromethane	ND		0.17	3.0
Dibromomethane	ND		0.17	10
Ethylbenzene	ND		0.16	5.0
Iodomethane	ND		0.23	10
Methylene Chloride	ND		0.32	5.5
Styrene	ND		0.17	10
Tetrachloroethene	ND		0.20	3.0
Toluene	ND		0.17	5.0
trans-1,2-Dichloroethene	ND		0.15	5.0
trans-1,3-Dichloropropene	ND		0.19	5.5
trans-1,4-Dichloro-2-butene	ND		0.80	100
Trichloroethene	ND		0.16	3.0
Trichlorofluoromethane	ND		0.29	5.0
Vinyl acetate	ND		0.94	50

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-139086

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-139086/5	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8578.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1129	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1129				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.10	5.5
Xylenes, Total	ND		0.19	4.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	115	70 - 127
Toluene-d8 (Surr)	102	80 - 125
4-Bromofluorobenzene (Surr)	100	78 - 120
Dibromofluoromethane (Surr)	114	77 - 120

Client: Waste Management

Job Number: 280-33238-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-139086/4	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8576.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1045	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1045				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-139086/7	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8577.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1107	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1107				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1-Trichloroethane	107	110	70 - 135	2	20		
1,1-Dichloroethane	100	99	75 - 135	0	21	J	J
1,1-Dichloroethene	105	103	71 - 136	1	20		
1,2-Dichloropropane	91	94	71 - 120	3	20		
1,3-Dichlorobenzene	93	88	74 - 135	5	20		
Benzene	97	93	74 - 135	5	20		
Bromodichloromethane	109	106	73 - 135	3	20		
Carbon tetrachloride	110	112	67 - 135	2	21	J	
Chlorobenzene	96	87	76 - 135	9	20		
Chloroform	110	107	76 - 120	3	20		
Ethylbenzene	95	87	72 - 120	10	26	J	J
Methylene Chloride	122	110	54 - 141	10	20		
Tetrachloroethene	99	87	70 - 135	13	20		
Toluene	99	97	73 - 120	2	20	J	J
trans-1,2-Dichloroethene	103	103	75 - 135	0	24		
Trichloroethene	96	96	73 - 135	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111	116	70 - 127
Toluene-d8 (Surr)	98	96	80 - 125
4-Bromofluorobenzene (Surr)	95	100	78 - 120
Dibromofluoromethane (Surr)	107	111	77 - 120

Client: Waste Management

Job Number: 280-33238-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-139086/4	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-139086/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/26/2012 1045			Analysis Date:	09/26/2012 1107
Prep Date:	09/26/2012 1045			Prep Date:	09/26/2012 1107
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
1,1,1-Trichloroethane	5.00	5.00	5.37		5.49	
1,1-Dichloroethane	5.00	5.00	4.99	J	4.97	J
1,1-Dichloroethene	5.00	5.00	5.23		5.17	
1,2-Dichloropropane	5.00	5.00	4.56		4.71	
1,3-Dichlorobenzene	5.00	5.00	4.65		4.42	
Benzene	5.00	5.00	4.85		4.64	
Bromodichloromethane	5.00	5.00	5.44		5.30	
Carbon tetrachloride	5.00	5.00	5.49	J	5.62	
Chlorobenzene	5.00	5.00	4.78		4.36	
Chloroform	5.00	5.00	5.50		5.35	
Ethylbenzene	5.00	5.00	4.77	J	4.33	J
Methylene Chloride	5.00	5.00	6.10		5.52	
Tetrachloroethene	5.00	5.00	4.96		4.34	
Toluene	5.00	5.00	4.97	J	4.85	J
trans-1,2-Dichloroethene	5.00	5.00	5.14		5.14	
Trichloroethene	5.00	5.00	4.81		4.79	

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33242-I-1 MS	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8583.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1319			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1319				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33242-I-1 MSD	Analysis Batch:	280-139086	Instrument ID:	VMS_G
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	G8584.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	09/26/2012 1340			Final Weight/Volume:	20 mL
Prep Date:	09/26/2012 1340				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	101	102	70 - 135	1	20		
1,1-Dichloroethane	94	99	75 - 135	4	21		
1,1-Dichloroethene	98	98	71 - 136	1	20	J	J
1,2-Dichloropropane	92	90	71 - 120	3	20		
1,3-Dichlorobenzene	90	87	74 - 135	3	20		
Benzene	92	92	74 - 135	0	20		
Bromodichloromethane	105	100	73 - 135	5	20		
Carbon tetrachloride	104	103	67 - 135	1	21	J	J
Chlorobenzene	94	90	76 - 135	4	20		
Chloroform	108	103	76 - 120	5	20		
Ethylbenzene	89	89	72 - 120	0	26	J	J
Methylene Chloride	92	89	54 - 141	4	20	J	J
Tetrachloroethene	89	92	70 - 135	3	20		
Toluene	94	89	73 - 120	5	20	J	J
trans-1,2-Dichloroethene	100	100	75 - 135	1	24		J
Trichloroethene	95	92	73 - 135	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109	106	70 - 127
Toluene-d8 (Surr)	92	92	80 - 125
4-Bromofluorobenzene (Surr)	85	90	78 - 120
Dibromofluoromethane (Surr)	100	101	77 - 120

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-139086

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-33242-I-1 MS	Units: ug/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/26/2012 1319		
Prep Date:	09/26/2012 1319		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33242-I-1 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/26/2012 1340
Prep Date:	09/26/2012 1340
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1-Trichloroethane	ND		5.00	5.00	5.03		5.08	
1,1-Dichloroethane	2.2	J	5.00	5.00	6.85		7.12	
1,1-Dichloroethene	ND		5.00	5.00	4.88	J	4.91	J
1,2-Dichloropropane	ND		5.00	5.00	4.62		4.48	
1,3-Dichlorobenzene	ND		5.00	5.00	4.49		4.36	
Benzene	ND		5.00	5.00	4.59		4.60	
Bromodichloromethane	ND		5.00	5.00	5.23		4.99	
Carbon tetrachloride	ND		5.00	5.00	5.19	J	5.14	J
Chlorobenzene	ND		5.00	5.00	4.70		4.51	
Chloroform	ND		5.00	5.00	5.38		5.13	
Ethylbenzene	ND		5.00	5.00	4.44	J	4.43	J
Methylene Chloride	ND		5.00	5.00	4.61	J	4.44	J
Tetrachloroethene	ND		5.00	5.00	4.47		4.61	
Toluene	ND		5.00	5.00	4.71	J	4.47	J
trans-1,2-Dichloroethene	ND		5.00	5.00	5.02		4.98	J
Trichloroethene	ND		5.00	5.00	4.74		4.58	

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 680-249853

Method: 6010C
Preparation: 3030C

Lab Sample ID:	MB 680-249853/1-A	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1805	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Silver	ND		1.6	10
Barium	ND		1.0	100
Calcium	ND		100	200
Cobalt	ND		4.0	10
Chromium	ND		4.0	10
Copper	ND		10	15
Iron	143		27	100
Potassium	ND		86	3000
Magnesium	ND		31	200
Manganese	ND		2.0	10
Sodium	ND		280	5000
Nickel	ND		4.0	50
Lead	ND		3.4	10
Selenium	ND		6.4	15
Vanadium	ND		2.4	25
Zinc	ND		10	20

Client: Waste Management

Job Number: 280-33238-1

Lab Control Sample - Batch: 680-249853

Method: 6010C
Preparation: 3030C

Lab Sample ID:	LCS 680-249853/2-A	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1811	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	50.9	102	75 - 125	
Barium	100	95.5	96	75 - 125	J
Calcium	5000	4990	100	75 - 125	
Cobalt	50.0	49.9	100	75 - 125	
Chromium	100	96.7	97	75 - 125	
Copper	100	103	103	75 - 125	
Iron	5000	4900	98	75 - 125	
Potassium	5000	5280	106	75 - 125	
Magnesium	5000	5090	102	75 - 125	
Manganese	500	480	96	75 - 125	
Sodium	5000	4760	95	75 - 125	J
Nickel	100	103	103	75 - 125	
Lead	50.0	48.3	97	75 - 125	
Selenium	100	106	106	75 - 125	
Vanadium	100	98.7	99	75 - 125	
Zinc	100	102	102	75 - 125	

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249853

Method: 6010C
Preparation: 3030C

MS Lab Sample ID:	280-33259-A-1-H MS	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1846			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33259-A-1-I MSD	Analysis Batch:	680-250057	Instrument ID:	ICPE
Client Matrix:	Water	Prep Batch:	680-249853	Lab File ID:	E09172012.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 1851			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1246				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	101	98	75 - 125	3	20		
Barium	96	93	75 - 125	2	20		
Calcium	96	94	75 - 125	0	20		
Cobalt	101	97	75 - 125	4	20		
Chromium	97	95	75 - 125	3	20		
Copper	103	101	75 - 125	2	20		
Potassium	108	104	75 - 125	2	20		
Magnesium	101	99	75 - 125	1	20		
Manganese	94	93	75 - 125	1	20		
Sodium	95	94	75 - 125	0	20		
Nickel	103	100	75 - 125	3	20		
Lead	98	96	75 - 125	2	20		
Selenium	107	101	75 - 125	5	20		
Vanadium	99	97	75 - 125	2	20		
Zinc	101	99	75 - 125	2	20		

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249853

Method: 6010C
Preparation: 3030C

MS Lab Sample ID:	280-33259-A-1-H MS	Units:	ug/L	MSD Lab Sample ID:	280-33259-A-1-I MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/17/2012 1846			Analysis Date:	09/17/2012 1851
Prep Date:	09/15/2012 1246			Prep Date:	09/15/2012 1246
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Silver	ND		50.0	50.0	50.7	49.1
Barium	29	J	100	100	125	122
Calcium	12000		5000	5000	16800	16700
Cobalt	ND		50.0	50.0	50.4	48.5
Chromium	ND		100	100	96.9	94.5
Copper	ND		100	100	103	101
Potassium	2700	J	5000	5000	8130	7950
Magnesium	4400		5000	5000	9440	9350
Manganese	110		500	500	577	570
Sodium	8500		5000	5000	13200	13200
Nickel	ND		100	100	103	99.6
Lead	ND		50.0	50.0	49.0	48.2
Selenium	ND		100	100	107	101
Vanadium	ND		100	100	99.2	96.9
Zinc	ND		100	100	101	99.2

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 680-249855

Method: 6020A
Preparation: 3030C

Lab Sample ID:	MB 680-249855/1-A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	179SMPL.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0850	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.40	5.0
Cadmium	ND		0.20	1.0
Beryllium	ND		0.070	1.0
Antimony	ND		0.99	2.0
Thallium	ND		0.10	1.0

Lab Control Sample - Batch: 680-249855

Method: 6020A
Preparation: 3030C

Lab Sample ID:	LCS 680-249855/2-A	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	180SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0857	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	100	102	102	75 - 125	
Cadmium	50.0	48.9	98	75 - 125	
Beryllium	50.0	50.8	102	75 - 125	
Antimony	50.0	49.7	99	75 - 125	
Thallium	40.0	37.2	93	75 - 125	

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249855

Method: 6020A
Preparation: 3030C

MS Lab Sample ID:	280-33259-A-1-C MS	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	182SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0912			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33259-A-1-D MSD	Analysis Batch:	680-250270	Instrument ID:	ICPMSA
Client Matrix:	Water	Prep Batch:	680-249855	Lab File ID:	183SMPL.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 0919			Final Weight/Volume:	50 mL
Prep Date:	09/15/2012 1252				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	102	98	75 - 125	4	20		
Cadmium	101	96	75 - 125	5	20		
Beryllium	101	97	75 - 125	4	20		
Antimony	99	94	75 - 125	4	20		
Thallium	93	91	75 - 125	2	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249855

Method: 6020A
Preparation: 3030C

MS Lab Sample ID:	280-33259-A-1-C MS	Units: ug/L	
Client Matrix:	Water		
Dilution:	5.0		
Analysis Date:	09/18/2012 0912		
Prep Date:	09/15/2012 1252		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33259-A-1-D MSD
Client Matrix:	Water
Dilution:	5.0
Analysis Date:	09/18/2012 0919
Prep Date:	09/15/2012 1252
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	ND	100	100	102	98.5
Cadmium	ND	50.0	50.0	50.4	47.8
Beryllium	ND	50.0	50.0	50.5	48.4
Antimony	ND	50.0	50.0	49.3	47.2
Thallium	ND	40.0	40.0	37.1	36.5

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 680-249925

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 680-249925/1-A	Analysis Batch:	680-250283	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	680-249925	Lab File ID:	C091812A.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 1325	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1048				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.091	0.20

Lab Control Sample - Batch: 680-249925

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 680-249925/2-A	Analysis Batch:	680-250283	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	680-249925	Lab File ID:	C091812A.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 1328	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1048				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	2.50	2.48	99	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249925

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	680-82898-S-3-B MS	Analysis Batch:	680-250283	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	680-249925	Lab File ID:	C091812A.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 1338			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1048				
Leach Date:	N/A				

MSD Lab Sample ID:	680-82898-S-3-C MSD	Analysis Batch:	680-250283	Instrument ID:	LEEMAN2
Client Matrix:	Water	Prep Batch:	680-249925	Lab File ID:	C091812A.CSV
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/18/2012 1341			Final Weight/Volume:	50 mL
Prep Date:	09/17/2012 1048				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	90	89	80 - 120	1	20		

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-249925

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	680-82898-S-3-B MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/18/2012 1338		
Prep Date:	09/17/2012 1048		
Leach Date:	N/A		

MSD Lab Sample ID:	680-82898-S-3-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/18/2012 1341
Prep Date:	09/17/2012 1048
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	1.00	1.00	0.903	0.893

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-138228

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-138228/12	Analysis Batch:	280-138228	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	121.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/19/2012 1232	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chloride	ND		0.25	0.30
Sulfate	ND		0.23	5.0

Method Reporting Limit Check - Batch: 280-138228

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-138228/5	Analysis Batch:	280-138228	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/19/2012 1019	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	1.00	1.06	106	50 - 150	J
Sulfate	1.00	1.13	113	50 - 150	J

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-138228

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-138228/6	Analysis Batch:	280-138228	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/19/2012 1052	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-138228/11	Analysis Batch:	280-138228	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	120.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/19/2012 1216	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	101	101	90 - 110	0	10		
Sulfate	100	100	90 - 110	0	10		

Client: Waste Management

Job Number: 280-33238-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-138228

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-138228/6	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-138228/11
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/19/2012 1052			Analysis Date:	09/19/2012 1216
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chloride	25.0	25.0	25.2	25.2
Sulfate	25.0	25.0	25.1	25.1

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138228

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-33422-A-10 MS	Analysis Batch:	280-138228	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	124.TXT
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/19/2012 1320			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33422-A-10 MSD	Analysis Batch:	280-138228	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	125.TXT
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/19/2012 1335			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	100	100	80 - 120	0	20	E	E
Sulfate	99	100	80 - 120	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138228

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-33242-C-1 MS	Analysis Batch:	280-138228	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	148.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/19/2012 1939			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33242-C-1 MSD	Analysis Batch:	280-138228	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	149.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/19/2012 1955			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chloride	102	103	80 - 120	1	20		
Sulfate	100	101	80 - 120	1	20		

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138228

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-33422-A-10 MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	5.0		
Analysis Date:	09/19/2012 1320		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33422-A-10 MSD
Client Matrix:	Water
Dilution:	5.0
Analysis Date:	09/19/2012 1335
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Chloride	150	125	125	279	E	280	E
Sulfate	26	125	125	150		150	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138228

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-33242-C-1 MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/19/2012 1939		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33242-C-1 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/19/2012 1955
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chloride	10	25.0	25.0	35.4	35.7
Sulfate	6.1	25.0	25.0	31.0	31.2

Client: Waste Management

Job Number: 280-33238-1

Duplicate - Batch: 280-138228

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-33422-A-10 DU	Analysis Batch:	280-138228	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	123.TXT
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/19/2012 1304	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	150	155	0.5	15	
Sulfate	26	25.7	0.4	15	

Duplicate - Batch: 280-138228

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-33242-C-1 DU	Analysis Batch:	280-138228	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	147.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/19/2012 1923	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	10	9.97	0.5	15	
Sulfate	6.1	5.95	2	15	

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-138320

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-138320/20	Analysis Batch:	280-138320	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0920NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/20/2012 1257	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia	ND		0.022	0.040

Method Blank - Batch: 280-138320

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-138320/168	Analysis Batch:	280-138320	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0920NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/20/2012 1717	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia	0.0260	J	0.022	0.040

Client: Waste Management

Job Number: 280-33238-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-138320

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-138320/21	Analysis Batch:	280-138320	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0920NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/20/2012 1258	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-138320/22	Analysis Batch:	280-138320	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0920NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/20/2012 1300	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia	99	100	90 - 110	1	10		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-138320

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-138320/86	Analysis Batch:	280-138320	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0920NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/20/2012 1514	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-138320/87	Analysis Batch:	280-138320	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0920NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/20/2012 1515	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Ammonia	100	97	90 - 110	3	10		

Client: Waste Management

Job Number: 280-33238-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-138320

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-138320/21	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-138320/22
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/20/2012 1258			Analysis Date:	09/20/2012 1300
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia	5.00	5.00	4.97	5.00

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-138320

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-138320/86	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-138320/87
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/20/2012 1514			Analysis Date:	09/20/2012 1515
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ammonia	5.00	5.00	5.01	4.87

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138320

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-32869-B-23 MS	Analysis Batch:	280-138320	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0920NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1325			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-32869-B-23 MSD	Analysis Batch:	280-138320	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0920NXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2012 1327			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia	114	115	90 - 110	1	10	F	F

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138320

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-32869-B-23 MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/20/2012 1325		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-32869-B-23 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/20/2012 1327
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Ammonia	0.16	4.00	4.00	4.72	F	4.77	F

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-138927

Method: 365.1
Preparation: 365.2/365.3/365

Lab Sample ID:	MB 280-138927/5-A	Analysis Batch:	280-138962	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	280-138927	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1945	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/24/2012 1600				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Phosphorus, Total	ND		0.0050	0.050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-138927

Method: 365.1
Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-138927/3-A	Analysis Batch:	280-138962	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	280-138927	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1945	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/24/2012 1600				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-138927/4-A	Analysis Batch:	280-138962	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	280-138927	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1945	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/24/2012 1600				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phosphorus, Total	99	98	90 - 110	1	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-138927

Method: 365.1
Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-138927/3-A	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/24/2012 1945		
Prep Date:	09/24/2012 1600		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-138927/4-A
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/24/2012 1945
Prep Date:	09/24/2012 1600
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Phosphorus, Total	0.500	0.500	0.496	0.491

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138927

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-33323-B-5-B MS	Analysis Batch:	280-138962	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	280-138927	Lab File ID:	N/A
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1945			Final Weight/Volume:	50 mL
Prep Date:	09/24/2012 1600				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33323-B-5-C MSD	Analysis Batch:	280-138962	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	280-138927	Lab File ID:	N/A
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/24/2012 1945			Final Weight/Volume:	50 mL
Prep Date:	09/24/2012 1600				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phosphorus, Total	94	99	90 - 110	1	10	4	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-138927

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-33323-B-5-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	10		
Analysis Date:	09/24/2012 1945		
Prep Date:	09/24/2012 1600		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33323-B-5-C MSD
Client Matrix:	Water
Dilution:	10
Analysis Date:	09/24/2012 1945
Prep Date:	09/24/2012 1600
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Phosphorus, Total	2.5	0.500	0.500	3.02	4	3.04	4

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-137798

Method: 410.4
Preparation: N/A

Lab Sample ID:	MB 280-137798/5	Analysis Batch:	280-137798	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	09/19/2012 1238	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chemical Oxygen Demand	ND		4.1	50

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-137798

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-137798/3	Analysis Batch:	280-137798	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	09/19/2012 1238	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				
LCSD Lab Sample ID:	LCSD 280-137798/4	Analysis Batch:	280-137798	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10 mL
Analysis Date:	09/19/2012 1238	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chemical Oxygen Demand	96	100	90 - 110	3	11		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-137798

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-137798/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-137798/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/19/2012 1238			Analysis Date:	09/19/2012 1238
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Chemical Oxygen Demand	100	100	96.3	99.5

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-137798

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-33166-B-2 MS	Analysis Batch:	280-137798	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	09/19/2012 1238			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33166-B-2 MSD	Analysis Batch:	280-137798	Instrument ID:	WC_HACH SPEC
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	09/19/2012 1238			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chemical Oxygen Demand	89	82	90 - 110	6	11	F	J F

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-137798

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-33166-B-2 MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/19/2012 1238		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33166-B-2 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/19/2012 1238
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Chemical Oxygen Demand	8.4	J	50.0	50.0	52.8	F	49.6	J F

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-139220

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-139220/6	Analysis Batch:	280-139220	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092612.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/26/2012 1115	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Alkalinity	2.77	J	1.1	5.0
Bicarbonate Alkalinity as CaCO3	2.77	J	1.1	5.0
Carbonate Alkalinity as CaCO3	ND		1.1	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-139220

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-139220/4	Analysis Batch:	280-139220	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092612.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/26/2012 1107	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-139220/5	Analysis Batch:	280-139220	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092612.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/26/2012 1112	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Alkalinity	104	103	90 - 110	0	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-139220

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-139220/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-139220/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/26/2012 1107			Analysis Date:	09/26/2012 1112
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Alkalinity	200	200	207	207

Client: Waste Management

Job Number: 280-33238-1

Duplicate - Batch: 280-139220

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-33238-1	Analysis Batch:	280-139220	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	092612.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/26/2012 1125	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	4900	5040	4	10	
Carbonate Alkalinity as CaCO3	ND	ND	NC		

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-137559

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-137559/1	Analysis Batch:	280-137559	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/17/2012 0933	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Dissolved Solids	ND		4.7	10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-137559

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-137559/2	Analysis Batch:	280-137559	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/17/2012 0933	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-137559/3	Analysis Batch:	280-137559	Instrument ID:	No Equipment		
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A		
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL		
Analysis Date:	09/17/2012 0933	Units:	mg/L	Final Weight/Volume:	100 mL		
Prep Date:	N/A						
Leach Date:	N/A						

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Dissolved Solids	98	96	86 - 110	3	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-137559

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-137559/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-137559/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/17/2012 0933			Analysis Date:	09/17/2012 0933
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	500	500	491	478

Client: Waste Management

Job Number: 280-33238-1

Duplicate - Batch: 280-137559

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-33177-B-1 DU	Analysis Batch:	280-137559	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/17/2012 0933	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	1300	1340	0.3	10	

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-138328

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 280-138328/1	Analysis Batch:	280-138328	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	09/20/2012 1929	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	ND		1.1	4.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-138328

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-138328/2	Analysis Batch:	280-138328	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/20/2012 1929	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-138328/3	Analysis Batch:	280-138328	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/20/2012 1929	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Suspended Solids	98	95	86 - 114	3	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-138328

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-138328/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-138328/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/20/2012 1929			Analysis Date:	09/20/2012 1929
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Suspended Solids	100	100	98.0	95.0

Client: Waste Management

Job Number: 280-33238-1

Duplicate - Batch: 280-138328

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	280-33261-A-1 DU	Analysis Batch:	280-138328	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	09/20/2012 1929	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	48	46.0	4	10	

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-137897

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-137897/5	Analysis Batch:	280-137897	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	091712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/17/2012 1954	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Organic Carbon - Average	0.259	J	0.16	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-137897

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-137897/3	Analysis Batch:	280-137897	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	091712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/17/2012 1916	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-137897/4	Analysis Batch:	280-137897	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	091712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/17/2012 1935	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Organic Carbon - Average	97	98	88 - 112	1	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-137897

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-137897/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-137897/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/17/2012 1916			Analysis Date:	09/17/2012 1935
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Organic Carbon - Average	25.0	25.0	24.4	24.6

Client: Waste Management

Job Number: 280-33238-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-137897

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-33299-B-1 MS	Analysis Batch:	280-137897	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	091712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/18/2012 0144			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-33299-B-1 MSD	Analysis Batch:	280-137897	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	091712.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	09/18/2012 0206			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Organic Carbon - Average	95	97	88 - 112	2	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-137897

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-33299-B-1 MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	09/18/2012 0144		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-33299-B-1 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	09/18/2012 0206
Prep Date:	N/A
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Organic Carbon - Average	2.7	25.0	25.0	26.4	26.9

Client: Waste Management

Job Number: 280-33238-1

Method Blank - Batch: 280-137287

Method: SM5210B
Preparation: N/A

Lab Sample ID:	MB 280-137287/6	Analysis Batch:	280-137287	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/14/2012 0936	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Biochemical Oxygen Demand	ND		0.24	2.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-137287

Method: SM5210B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-137287/3	Analysis Batch:	280-137287	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/14/2012 0936	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-137287/5	Analysis Batch:	280-137287	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/14/2012 0936	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Biochemical Oxygen Demand	98	101	85 - 115	4	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-137287

Method: SM5210B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-137287/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-137287/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/14/2012 0936			Analysis Date:	09/14/2012 0936
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Biochemical Oxygen Demand	198	198	193	200

Client: Waste Management

Job Number: 280-33238-1

Duplicate - Batch: 280-137287

Method: SM5210B
Preparation: N/A

Lab Sample ID:	280-33238-1	Analysis Batch:	280-137287	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/14/2012 1200	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Biochemical Oxygen Demand	60	60.5	0.3	20	

Client: Waste Management

Job Number: 280-33238-1

Laboratory Chronicle

Lab ID: **280-33238-1** **Client ID:** **3406-T01**

Sample Date/Time: 09/13/2012 10:30 Received Date/Time: 09/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33238-J-1		280-139086		09/26/2012 19:42	1	TAL DEN	JS
A:8260B	280-33238-J-1		280-139086		09/26/2012 19:42	1	TAL DEN	JS
P:3030C	280-33238-H-1-E		680-250057	680-249853	09/15/2012 12:48	1	TAL SAV	RAM
A:6010C	280-33238-H-1-E		680-250057	680-249853	09/17/2012 19:15	1	TAL SAV	BCB
P:3030C	280-33238-H-1-E		680-250147	680-249853	09/15/2012 12:48	10	TAL SAV	RAM
A:6010C	280-33238-H-1-E		680-250147	680-249853	09/18/2012 11:55	10	TAL SAV	BCB
P:3030C	280-33238-H-1-E		680-250147	680-249853	09/15/2012 12:48	50	TAL SAV	RAM
A:6010C	280-33238-H-1-E		680-250147	680-249853	09/18/2012 12:00	50	TAL SAV	BCB
P:3030C	280-33238-H-1-D		680-250270	680-249855	09/15/2012 12:52	5	TAL SAV	RAM
A:6020A	280-33238-H-1-D		680-250270	680-249855	09/18/2012 10:18	5	TAL SAV	BR
P:7470A	280-33238-H-1-F		680-250283	680-249925	09/17/2012 10:48	1	TAL SAV	UU
A:7470A	280-33238-H-1-F		680-250283	680-249925	09/18/2012 14:12	1	TAL SAV	UU
A:300.0	280-33238-C-1		280-138228		09/19/2012 21:30	5	TAL DEN	EK
A:300.0	280-33238-C-1		280-138228		09/19/2012 21:46	50	TAL DEN	EK
A:350.1	280-33238-A-1		280-138320		09/20/2012 15:18	200	TAL DEN	SJS
P:365.2/365.3/365	280-33238-G-1-A		280-138962	280-138927	09/24/2012 16:00	1	TAL DEN	MW
A:365.1	280-33238-G-1-A		280-138962	280-138927	09/24/2012 19:45	1	TAL DEN	MW
A:410.4	280-33238-E-1		280-137798		09/19/2012 12:38	10	TAL DEN	DFB
A:Nitrate by calc	280-33238-A-1		280-138940		09/25/2012 12:50	1	TAL DEN	RS
A:SM 2320B	280-33238-B-1		280-139220		09/26/2012 11:20	1	TAL DEN	DA
A:SM 2540C	280-33238-C-1		280-137559		09/17/2012 09:33	1	TAL DEN	AK
A:SM 2540D	280-33238-C-1		280-138328		09/20/2012 19:29	1	TAL DEN	JMH
A:SM 5310B	280-33238-G-1		280-137897		09/18/2012 05:09	7	TAL DEN	DFB
A:SM5210B	280-33238-A-1		280-137287		09/14/2012 12:00	5	TAL DEN	LMK
A:Field Sampling	280-33238-A-1		280-137370		09/13/2012 10:30	1	TAL DEN	FS

Lab ID: **280-33238-1 DU** **Client ID:** **3406-T01**

Sample Date/Time: 09/13/2012 10:30 Received Date/Time: 09/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	280-33238-B-1 DU		280-139220		09/26/2012 11:25	1	TAL DEN	DA
A:SM5210B	280-33238-A-1 DU		280-137287		09/14/2012 12:00	5	TAL DEN	LMK

Lab ID: **280-33238-2** **Client ID:** **TRIP BLANK**

Sample Date/Time: 09/13/2012 10:30 Received Date/Time: 09/14/2012 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33238-A-2		280-139086		09/26/2012 20:04	1	TAL DEN	JS
A:8260B	280-33238-A-2		280-139086		09/26/2012 20:04	1	TAL DEN	JS

Client: Waste Management

Job Number: 280-33238-1

Laboratory Chronicle

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-139086/5		280-139086		09/26/2012 11:29	1	TAL DEN	JS
A:8260B	MB 280-139086/5		280-139086		09/26/2012 11:29	1	TAL DEN	JS
P:3030C	MB 680-249853/1-A		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	MB 680-249853/1-A		680-250057	680-249853	09/17/2012 18:05	1	TAL SAV	BCB
P:3030C	MB 680-249855/1-A		680-250270	680-249855	09/15/2012 12:52	1	TAL SAV	RAM
A:6020A	MB 680-249855/1-A		680-250270	680-249855	09/18/2012 08:50	1	TAL SAV	BR
P:7470A	MB 680-249925/1-A		680-250283	680-249925	09/17/2012 10:48	1	TAL SAV	UU
A:7470A	MB 680-249925/1-A		680-250283	680-249925	09/18/2012 13:25	1	TAL SAV	UU
A:300.0	MB 280-138228/12		280-138228		09/19/2012 12:32	1	TAL DEN	EK
A:350.1	MB 280-138320/20		280-138320		09/20/2012 12:57	1	TAL DEN	SJS
A:350.1	MB 280-138320/168		280-138320		09/20/2012 17:17	1	TAL DEN	SJS
P:365.2/365.3/365	MB 280-138927/5-A		280-138962	280-138927	09/24/2012 16:00	1	TAL DEN	MW
A:365.1	MB 280-138927/5-A		280-138962	280-138927	09/24/2012 19:45	1	TAL DEN	MW
A:410.4	MB 280-137798/5		280-137798		09/19/2012 12:38	1	TAL DEN	DFB
A:SM 2320B	MB 280-139220/6		280-139220		09/26/2012 11:15	1	TAL DEN	DA
A:SM 2540C	MB 280-137559/1		280-137559		09/17/2012 09:33	1	TAL DEN	AK
A:SM 2540D	MB 280-138328/1		280-138328		09/20/2012 19:29	1	TAL DEN	JMH
A:SM 5310B	MB 280-137897/5		280-137897		09/17/2012 19:54	1	TAL DEN	DFB
A:SM5210B	MB 280-137287/6		280-137287		09/14/2012 09:36	1	TAL DEN	LMK

Client: Waste Management

Job Number: 280-33238-1

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-139086/4		280-139086		09/26/2012 10:45	1	TAL DEN	JS
A:8260B	LCS 280-139086/4		280-139086		09/26/2012 10:45	1	TAL DEN	JS
P:3030C	LCS 680-249853/2-A		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	LCS 680-249853/2-A		680-250057	680-249853	09/17/2012 18:11	1	TAL SAV	BCB
P:3030C	LCS 680-249855/2-A		680-250270	680-249855	09/15/2012 12:52	5	TAL SAV	RAM
A:6020A	LCS 680-249855/2-A		680-250270	680-249855	09/18/2012 08:57	5	TAL SAV	BR
P:7470A	LCS 680-249925/2-A		680-250283	680-249925	09/17/2012 10:48	1	TAL SAV	UU
A:7470A	LCS 680-249925/2-A		680-250283	680-249925	09/18/2012 13:28	1	TAL SAV	UU
A:300.0	LCS 280-138228/6		280-138228		09/19/2012 10:52	1	TAL DEN	EK
A:350.1	LCS 280-138320/21		280-138320		09/20/2012 12:58	1	TAL DEN	SJS
A:350.1	LCS 280-138320/86		280-138320		09/20/2012 15:14	1	TAL DEN	SJS
P:365.2/365.3/365	LCS 280-138927/3-A		280-138962	280-138927	09/24/2012 16:00	1	TAL DEN	MW
A:365.1	LCS 280-138927/3-A		280-138962	280-138927	09/24/2012 19:45	1	TAL DEN	MW
A:410.4	LCS 280-137798/3		280-137798		09/19/2012 12:38	1	TAL DEN	DFB
A:SM 2320B	LCS 280-139220/4		280-139220		09/26/2012 11:07	1	TAL DEN	DA
A:SM 2540C	LCS 280-137559/2		280-137559		09/17/2012 09:33	1	TAL DEN	AK
A:SM 2540D	LCS 280-138328/2		280-138328		09/20/2012 19:29	1	TAL DEN	JMH
A:SM 5310B	LCS 280-137897/3		280-137897		09/17/2012 19:16	1	TAL DEN	DFB
A:SM5210B	LCS 280-137287/3		280-137287		09/14/2012 09:36	1	TAL DEN	LMK

Lab ID: **LCSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-139086/7		280-139086		09/26/2012 11:07	1	TAL DEN	JS
A:8260B	LCSD 280-139086/7		280-139086		09/26/2012 11:07	1	TAL DEN	JS
A:300.0	LCSD 280-138228/11		280-138228		09/19/2012 12:16	1	TAL DEN	EK
A:350.1	LCSD 280-138320/22		280-138320		09/20/2012 13:00	1	TAL DEN	SJS
A:350.1	LCSD 280-138320/87		280-138320		09/20/2012 15:15	1	TAL DEN	SJS
P:365.2/365.3/365	LCSD 280-138927/4-A		280-138962	280-138927	09/24/2012 16:00	1	TAL DEN	MW
A:365.1	LCSD 280-138927/4-A		280-138962	280-138927	09/24/2012 19:45	1	TAL DEN	MW
A:410.4	LCSD 280-137798/4		280-137798		09/19/2012 12:38	1	TAL DEN	DFB
A:SM 2320B	LCSD 280-139220/5		280-139220		09/26/2012 11:12	1	TAL DEN	DA
A:SM 2540C	LCSD 280-137559/3		280-137559		09/17/2012 09:33	1	TAL DEN	AK
A:SM 2540D	LCSD 280-138328/3		280-138328		09/20/2012 19:29	1	TAL DEN	JMH
A:SM 5310B	LCSD 280-137897/4		280-137897		09/17/2012 19:35	1	TAL DEN	DFB
A:SM5210B	LCSD 280-137287/5		280-137287		09/14/2012 09:36	1	TAL DEN	LMK

Client: Waste Management

Job Number: 280-33238-1

Laboratory Chronicle

Lab ID: **MRL** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-138228/5		280-138228		09/19/2012 10:19	1	TAL DEN	EK

Lab ID: **MS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33242-I-1 MS		280-139086		09/26/2012 13:19	1	TAL DEN	JS
A:8260B	280-33242-I-1 MS		280-139086		09/26/2012 13:19	1	TAL DEN	JS
P:3030C	280-33259-A-1-H MS		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	280-33259-A-1-H MS		680-250057	680-249853	09/17/2012 18:46	1	TAL SAV	BCB
P:3030C	280-33259-A-1-C MS		680-250270	680-249855	09/15/2012 12:52	5	TAL SAV	RAM
A:6020A	280-33259-A-1-C MS		680-250270	680-249855	09/18/2012 09:12	5	TAL SAV	BR
P:7470A	680-82898-S-3-B MS		680-250283	680-249925	09/17/2012 10:48	1	TAL SAV	UU
A:7470A	680-82898-S-3-B MS		680-250283	680-249925	09/18/2012 13:38	1	TAL SAV	UU
A:300.0	280-33422-A-10 MS		280-138228		09/19/2012 13:20	5	TAL DEN	EK
A:300.0	280-33242-C-1 MS		280-138228		09/19/2012 19:39	1	TAL DEN	EK
A:350.1	280-32869-B-23 MS		280-138320		09/20/2012 13:25	1	TAL DEN	SJS
P:365.2/365.3/365	280-33323-B-5-B MS		280-138962	280-138927	09/24/2012 16:00	10	TAL DEN	MW
A:365.1	280-33323-B-5-B MS		280-138962	280-138927	09/24/2012 19:45	10	TAL DEN	MW
A:410.4	280-33166-B-2 MS		280-137798		09/19/2012 12:38	1	TAL DEN	DFB
A:SM 5310B	280-33299-B-1 MS		280-137897		09/18/2012 01:44	1	TAL DEN	DFB

Client: Waste Management

Job Number: 280-33238-1

Laboratory Chronicle

Lab ID: **MSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-33242-I-1 MSD		280-139086		09/26/2012 13:40	1	TAL DEN	JS
A:8260B	280-33242-I-1 MSD		280-139086		09/26/2012 13:40	1	TAL DEN	JS
P:3030C	280-33259-A-1-I MSD		680-250057	680-249853	09/15/2012 12:46	1	TAL SAV	RAM
A:6010C	280-33259-A-1-I MSD		680-250057	680-249853	09/17/2012 18:51	1	TAL SAV	BCB
P:3030C	280-33259-A-1-D MSD		680-250270	680-249855	09/15/2012 12:52	5	TAL SAV	RAM
A:6020A	280-33259-A-1-D MSD		680-250270	680-249855	09/18/2012 09:19	5	TAL SAV	BR
P:7470A	680-82898-S-3-C MSD		680-250283	680-249925	09/17/2012 10:48	1	TAL SAV	UU
A:7470A	680-82898-S-3-C MSD		680-250283	680-249925	09/18/2012 13:41	1	TAL SAV	UU
A:300.0	280-33422-A-10 MSD		280-138228		09/19/2012 13:35	5	TAL DEN	EK
A:300.0	280-33242-C-1 MSD		280-138228		09/19/2012 19:55	1	TAL DEN	EK
A:350.1	280-32869-B-23 MSD		280-138320		09/20/2012 13:27	1	TAL DEN	SJS
P:365.2/365.3/365	280-33323-B-5-C MSD		280-138962	280-138927	09/24/2012 16:00	10	TAL DEN	MW
A:365.1	280-33323-B-5-C MSD		280-138962	280-138927	09/24/2012 19:45	10	TAL DEN	MW
A:410.4	280-33166-B-2 MSD		280-137798		09/19/2012 12:38	1	TAL DEN	DFB
A:SM 5310B	280-33299-B-1 MSD		280-137897		09/18/2012 02:06	1	TAL DEN	DFB

Lab ID: **DU** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-33422-A-10 DU		280-138228		09/19/2012 13:04	5	TAL DEN	EK
A:300.0	280-33242-C-1 DU		280-138228		09/19/2012 19:23	1	TAL DEN	EK
A:SM 2540C	280-33177-B-1 DU		280-137559		09/17/2012 09:33	1	TAL DEN	AK
A:SM 2540D	280-33261-A-1 DU		280-138328		09/20/2012 19:29	1	TAL DEN	JMH

Lab References:

TAL DEN = TestAmerica Denver

TAL SAV = TestAmerica Savannah

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: DAN ARMOUR	Lab PM: Sara, Betsy A	Carrier Tracking No(s):	COC No: 280-15243-2289.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.4060	E-Mail: betsy.sara@testamericainc.com		Page: Page 1 of 1
Company: Waste Management				Job #:
Address: Southern Area 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 770-805-3366(Tel)	PO #: Purchase Order not requir			
Email: alacsama@wm.com	WO #:			
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA Leachate Mon Mar Sep			
Site: North Carolina	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Chloride/Sulfate/NO3(353.2)/Alks/TDS	Total Metals (sub to TA Savannah)	Ammonia/COD	Total Phos/TOC	8260B-VOA	TSS	BOD							Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	S	A	N	N								
TO1	9-13	1030	G	W	N		1	1	2	2	3	1	1								
TRIP	9-13	—	G	W	N						✓										

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* ☐ *Poison B* ☐ *Unknown* ☐ *Radiological*

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 9-13-12 / 1500	Company: PRO-TECH	Received by:	Date/Time: 9-14-12 1100	Company: TAP
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.7°C TA IRL 9-14-12

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: PIEDMONT

Site No.:

Sample Point: T01 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
09 13 12					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or [N]

Filter Device: [Y] or (N) [0.45 µ] or [ ] µ (circle or fill in)

Purging Device [–]
A- Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Sampling Device [X]

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE PORT ON LEACHATE SYSTEM

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material

Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1030	NA	1st 7.17	1st 1380	16.8	69.6	2.3	-24	
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
09 13 12	7.17	1380	16.8	69.6	2.3	-24	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: SLT. CLOUDY Odor: Color: Yellow Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: CALM Outlook: CLEAR 70°F Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
9/13/12	DAN ARMOUR		PRO-TECH

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client, PINK - Field Copy

TAL-8029WM (0108)

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-33238-1

Login Number: 33238

List Source: TestAmerica Denver

List Number: 1

Creator: Underwood, Tim

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	False	METALS BOTTLE OUT OF pH
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-33238-1

Login Number: 33238
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Savannah
List Creation: 09/15/12 11:23 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	N/A	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

APPENDIX B

Groundwater Statistical Analyses Report

Results of the Ground Water Statistics for

Piedmont Landfill

Second Semi-Annual Monitoring Event in 2012

Prepared for:
Piedmont Landfill and Recycling Center
Kernersville, North Carolina

Prepared by:
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Otter Creek Environmental Services, L.L.C.
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October 2012

Introduction

This report contains the results of the statistical analysis used to evaluate the ground water data obtained during the second semi-annual monitoring event in 2012 at Piedmont Landfill in Kernersville, North Carolina. The ground water at Piedmont Landfill is monitored semi-annually at MW01 (upgradient), MW02, MW03, MW04, MW04D, MW05, MW06 (upgradient), MW07, MW08, MW09R, MW10, MW11, MW11D, MW12, and MW12D. These ground water monitoring wells were sampled on September 12-13, 2012 and analyzed for the trace metals and volatile organic compounds (VOCs) listed below.

Trace Metals

Antimony, Total	Chromium, Total	Selenium, Total
Arsenic, Total	Cobalt, Total	Silver, Total
Barium, Total	Copper, Total	Thallium, Total
Beryllium, Total	Lead, Total	Vanadium, Total
Cadmium, Total	Nickel, Total	Zinc, Total

Volatile Organic Compounds

1,1,1,2-Tetrachloroethane	Acetone	Dibromomethane
1,1,1-Trichloroethane	Acrylonitrile	Ethylbenzene
1,1,2,2-Tetrachloroethane	Benzene	Iodomethane
1,1,2-Trichloroethane	Bromochloromethane	Methylene chloride
1,1-Dichloroethane	Bromodichloromethane	Styrene
1,1-Dichloroethene	Bromoform	Tetrachloroethene
1,2,3-Trichloropropane	Bromomethane	Toluene
1,2-Dibromo-3-chloropropane	Carbon disulfide	*trans*-1,2-Dichloroethene
1,2-Dibromoethane	Carbon tetrachloride	*trans*-1,3-Dichloropropene
1,2-Dichlorobenzene	Chlorobenzene	*trans*-1,4-Dichloro-2-butene
1,2-Dichloroethane	Chloroethane	Trichloroethene
1,2-Dichloropropane	Chloroform	Trichlorofluoromethane
1,4-Dichlorobenzene	Chloromethane	Vinyl acetate
2-Butanone; Methyl ethyl ketone	*cis*-1,2-Dichloroethene	Vinyl chloride
2-Hexanone	*cis*-1,3-Dichloropropene	Xylenes (Total)
4-Methyl-2-pentanone	Dibromochloromethane	

The trace metals data were compared to historical background data using intrawell statistics. The statistical method used to evaluate the ground water data was prepared by Dr. Robert Gibbons in accordance with the EPA statistical guidance document (*"Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Addendum to Interim Final Guidance"*, July 1992) and ASTM standard D6312-98 (*"Standard Guide for Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs").* The organic constituents were compared to maximum contaminant levels (MCLs) or practical quantitation limits (PQLs), in lieu of statistical comparisons to background concentrations.

Intrawell Comparisons

Intrawell comparisons are used to evaluate the ground water data at Piedmont Landfill in accordance with the site's statistical analysis plan. Intrawell statistics are appropriate for facilities where the upgradient wells do not accurately characterize the natural ground water conditions downgradient from the facility, due to different hydrogeological conditions where the wells are screened, having too few upgradient wells to account for the spatial variability, or the site exhibiting no definable hydraulic gradient. Intrawell statistics compare new measurements to the historical data at each ground water monitoring well independently.

The most useful technique for intrawell comparisons is the combined Shewhart-CUSUM control chart using the DUMPStat® program. This control chart procedure is useful because it will detect releases both in terms of the constituent concentration and cumulative increases. This method is also extremely sensitive to sudden and gradual releases. A requirement for constructing these control charts is that the parameter is detected at a frequency greater than or equal to 25%, otherwise the data variance is not properly defined.

The database is screened for outliers using the Dixon test. An erroneous data point, if not removed prior to the mean and variance computations would yield a larger control limit thus increasing the false negative rate. Anomalous data will still be plotted on the graphs but will not be included in the calculations. The background data is tested for existing trends using Sen's slope test. If contamination exists prior to completing the background, the control limits could be potentially high and this control chart method would not be able to detect an increasing trend unless the increase is severe.

The combined Shewhart-CUSUM control chart assumes that the data are independent and normally distributed with a fixed mean and a constant variance.

Many ground water monitoring parameters are not detected at a frequency great enough to generate the combined Shewhart-CUSUM control charts. For constituents that are detected less than 25% of the time monitored at a particular well, the data is plotted as a time series until a sufficient number of data points are available to provide a 99% confidence nonparametric prediction limit. The nonparametric prediction limit is the largest determination out of the data set collected for that well and parameter.

Results

The ground water data obtained during the second semi-annual monitoring event in 2012 are summarized in Attachment A. The trace metals data were compared to the historical background data at each well. The previously used background was established using the data obtained through 2003. Since there were no exceedances attributed to the landfill, the background was updated to include data obtained through 2008 for all wells.

The background range was tested for increasing trends using Sen's Test. There were increasing trends detected for barium at wells MW01, MW02, MW04, and MW05, however, these trends are attributed to the change in reporting limits and not the landfill.

A summary of the intrawell statistics is included in Attachment B, Table 1 "Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts." The control charts or time series graphs follow the summary table.

For the trace metals analyzed, there are no control limit exceedances detected. A previous control limit exceedance detected for chromium at MW03 was not confirmed by the current data. The site-wide false positive rate is 2% and the test becomes sensitive to 4.5 standard deviation units over background.

There were no VOCs detected in the ground water above the laboratory reporting limits during the September 2012 monitoring event. Historical VOC detections are summarized in Attachment C.

Attachment A

Summary of the Ground Water Data obtained during the Second Semi-Annual Monitoring Event in 2012

Table 1

Analytical Data Summary for 9/12/2012 to 9/13/2012

Constituents	Units	3406-MW01	3406-MW02	3406-MW03	3406-MW04	3406-MW04D	3406-MW05	3406-MW06	3406-MW07	3406-MW08	3406-MW09R
1,1,1,2-tetrachloroethane	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1,1-trichloroethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,1,2,2-tetrachloroethane	UG/L	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
1,1,2-trichloroethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,1-dichloroethane	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1-dichloroethene	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,2,3-trichloropropane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dibromo-3-chloropropane (dbcp)	UG/L	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000
1,2-dibromoethane (edb)	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dichlorobenzene	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,2-dichloroethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dichloropropane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,4-dichlorobenzene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
2-hexanone	UG/L	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
Acetone	UG/L	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Acrylonitrile	UG/L	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000
Alkalinity, bicarbonate (as caco3)	MG/L										
Alkalinity, carbonate (as caco3)	MG/L										
Alkalinity, total (as caco3)	MG/L										
Ammonia	MG/L										
Antimony, total	UG/L	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000
Arsenic, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Barium, total	UG/L	<100.0000	140.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Benzene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Beryllium, total	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Biochemical oxygen demand	MG/L										
Bromochloromethane	UG/L	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Bromoform	UG/L	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Bromomethane	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Cadmium, total	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Calcium, total	UG/L										
Carbon disulfide	UG/L	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Carbon tetrachloride	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Chemical oxygen demand	MG/L										
Chloride	MG/L										
Chlorobenzene	UG/L	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Chloroethane	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Chloroform	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Chloromethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Chromium, total	UG/L	<10.0000	<10.0000	12.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Cis-1,2-dichloroethene	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Cis-1,3-dichloropropene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Cobalt, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Copper, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Dibromochloromethane	UG/L	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Dibromomethane	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Dichlorobromomethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Do (field)	MG/L	1.5000	1.1000	2.6000	.8000	1.3000	.6000	1.7000	2.4000	.9000	
Eh/orp (field)	mV	76.1000	72.0000	65.0000	81.8000	75.4000	54.7000	87.9000	78.3000	86.2000	
Ethylbenzene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Iodomethane	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Iron, total	UG/L										
Lead, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Magnesium, total	UG/L										

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/12/2012 to 9/13/2012

Constituents	Units	3406-MW01	3406-MW02	3406-MW03	3406-MW04	3406-MW04D	3406-MW05	3406-MW06	3406-MW07	3406-MW08	3406-MW09R
Manganese, total	UG/L										
Mercury, total	UG/L										
Methyl ethyl ketone	UG/L	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Methyl isobutyl ketone	UG/L	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Methylene chloride	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Nickel, total	UG/L	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
Nitrogen, nitrate	MG/L										
pH FIELD	PH UNITS	5.8900	5.3400	5.7000	5.4300	6.1200	5.8100	5.3100	5.8300	5.2100	
Phosphorous, total	MG/L										
Potassium, total	MG/L										
Selenium, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Silver, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Sodium, total	MG/L										
Specific conductance field	UMHOS/CM	68.0000	139.0000	159.0000	83.0000	106.0000	332.0000	35.0000	134.0000	113.0000	
Styrene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Sulfate	MG/L										
Tetrachloroethene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Thallium, total	UG/L	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000
Toluene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Total dissolved solids	MG/L										
Total organic carbon	MG/L										
Total suspended solids	MG/L										
Total xylenes	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Trans-1,2-dichloroethene	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Trans-1,3-dichloropropene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trans-1,4-dichloro-2-butene	UG/L	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Trichloroethene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trichlorofluoromethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Turbidity	NTU	1.0000	2.5000	1.6000	2.3000	16.7000	1.5000	3.0000	3.4000	5.5000	
Vanadium, total	UG/L	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000
Vinyl acetate	UG/L	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
Vinyl chloride	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Zinc, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	12.0000	<10.0000	<10.0000	<10.0000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/12/2012 to 9/13/2012

Constituents	3406-MW10	3406-MW11	3406-MW11D	3406-MW12	3406-MW12D	3406-S02	3406-S03	3406-S04	3406-S05	3406-T01
1,1,1,2-tetrachloroethane	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<200.0000
1,1,1-trichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<200.0000
1,1,2,2-tetrachloroethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<120.0000
1,1,2-trichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<200.0000
1,1-dichloroethane	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<200.0000
1,1-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<200.0000
1,2,3-trichloropropane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<320.0000
1,2-dibromo-3-chloropropane (dbcp)	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<520.0000
1,2-dibromoethane (edb)	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<120.0000
1,2-dichlorobenzene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<400.0000
1,2-dichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<120.0000
1,2-dichloropropane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<120.0000
1,4-dichlorobenzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<120.0000
2-hexanone	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<2000.0000
Acetone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<4000.0000
Acrylonitrile	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<8000.0000
Alkalinity, bicarbonate (as caco3)										4900.0000
Alkalinity, carbonate (as caco3)										<5.0000
Alkalinity, total (as caco3)										4900.0000
Ammonia										1000.0000
Antimony, total	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<10.0000
Arsenic, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<25.0000
Barium, total	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	1200.0000
Benzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<120.0000
Beryllium, total	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.0000
Biochemical oxygen demand										60.0000
Bromochloromethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<120.0000
Bromoform	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<120.0000
Bromomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<400.0000
Cadmium, total	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<5.0000
Calcium, total										45000.0000
Carbon disulfide	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<4000.0000
Carbon tetrachloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<220.0000
Chemical oxygen demand										850.0000
Chloride										1800.0000
Chlorobenzene	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<120.0000
Chloroethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<400.0000
Chloroform	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<200.0000
Chloromethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<220.0000
Chromium, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	90.0000
Cis-1,2-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<200.0000
Cis-1,3-dichloropropene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<220.0000
Cobalt, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	32.0000
Copper, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	180.0000
Dibromochloromethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<120.0000
Dibromomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<400.0000
Dichlorobromomethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<120.0000
Do (field)	3.3000	1.2000	3.8000	.9000	.5000	8.2000	7.7000	7.9000	5.2000	2.3000
Eh/orp (field)	80.1000	67.6000	70.9000	57.3000	54.7000	43.3000	44.1000	58.3000	87.3000	<.0000
Ethylbenzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<200.0000
Iodomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<400.0000
Iron, total										7700.0000
Lead, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Magnesium, total										44000.0000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 9/12/2012 to 9/13/2012

Constituents	3406-MW10	3406-MW11	3406-MW11D	3406-MW12	3406-MW12D	3406-S02	3406-S03	3406-S04	3406-S05	3406-T01
Manganese, total										210.0000
Mercury, total										<.2000
Methyl ethyl ketone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<4000.0000
Methyl isobutyl ketone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<4000.0000
Methylene chloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<220.0000
Nickel, total	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	210.0000
Nitrogen, nitrate										<.5000
pH FIELD	5.6700	5.4500	6.3500	5.9900	6.4900	7.8600	7.3100	7.8400	7.3600	7.1700
Phosphorous, total										.9800
Potassium, total										350.0000
Selenium, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<15.0000
Silver, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Sodium, total										1100.0000
Specific conductance field	109.0000	161.0000	73.0000	152.0000	242.0000	136.0000	106.0000	106.0000	179.0000	1380.0000
Styrene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<400.0000
Sulfate										<25.0000
Tetrachloroethene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<120.0000
Thallium, total	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.0000
Toluene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<200.0000
Total dissolved solids										5100.0000
Total organic carbon										290.0000
Total suspended solids										<20.0000
Total xylenes	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<160.0000
Trans-1,2-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<200.0000
Trans-1,3-dichloropropene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<220.0000
Trans-1,4-dichloro-2-butene	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<4000.0000
Trichloroethene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<120.0000
Trichlorofluoromethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<200.0000
Turbidity	4.1000	3.9000	11.5000	7.8000	1.6000	.9000	2.7000	1.1000	1.4000	69.6000
Vanadium, total	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	48.0000
Vinyl acetate	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<2000.0000
Vinyl chloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<220.0000
Zinc, total	11.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	110.0000

* - The displayed value is the arithmetic mean of multiple database matches.

Attachment B

Summary Table and Graphs for the Intrawell Comparisons

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-Cusum Control Charts

Constituent	Units	Well	N	Mean	SD	S(i-1)	S(i)	Limit
Antimony, total	UG/L	3406-MW01	35					30.0000**
Arsenic, total	UG/L	3406-MW01	41					10.0000**
Barium, total	UG/L	3406-MW01	41	284.9293	223.5224	284.9293	284.9293	1179.0189
Beryllium, total	UG/L	3406-MW01	33					2.0000**
Cadmium, total	UG/L	3406-MW01	44					2.0000**
Chromium, total	UG/L	3406-MW01	41					10.0000**
Cobalt, total	UG/L	3406-MW01	33					10.0000**
Copper, total	UG/L	3406-MW01	41					200.0000**
Lead, total	UG/L	3406-MW01	41					10.0000**
Nickel, total	UG/L	3406-MW01	33					50.0000**
Selenium, total	UG/L	3406-MW01	41					20.0000**
Silver, total	UG/L	3406-MW01	41					10.0000**
Thallium, total	UG/L	3406-MW01	33					10.0000**
Vanadium, total	UG/L	3406-MW01	33					40.0000**
Zinc, total	UG/L	3406-MW01	41					65.4000**
Antimony, total	UG/L	3406-MW02	34					30.0000**
Arsenic, total	UG/L	3406-MW02	40					10.1000**
Barium, total	UG/L	3406-MW02	40	224.5875	229.6905	224.5875	224.5875	1143.3493
Beryllium, total	UG/L	3406-MW02	32					2.0000**
Cadmium, total	UG/L	3406-MW02	43					2.1000**
Chromium, total	UG/L	3406-MW02	40					10.0000**
Cobalt, total	UG/L	3406-MW02	32					10.0000**
Copper, total	UG/L	3406-MW02	40					200.0000**
Lead, total	UG/L	3406-MW02	40					10.0000**
Nickel, total	UG/L	3406-MW02	32					50.0000**
Selenium, total	UG/L	3406-MW02	40					20.0000**
Silver, total	UG/L	3406-MW02	40					10.0000**
Thallium, total	UG/L	3406-MW02	32					10.0000**
Vanadium, total	UG/L	3406-MW02	32					40.0000**
Zinc, total	UG/L	3406-MW02	40					50.0000**
Antimony, total	UG/L	3406-MW03	35					30.0000**
Arsenic, total	UG/L	3406-MW03	40					10.0000**
Barium, total	UG/L	3406-MW03	40	256.0825	247.0377	256.0825	256.0825	1244.2333
Beryllium, total	UG/L	3406-MW03	32					2.0000**
Cadmium, total	UG/L	3406-MW03	43					2.3000**
Chromium, total	UG/L	3406-MW03	40	9.0325	2.2952	18.5092	17.5092	18.2133
Cobalt, total	UG/L	3406-MW03	33					10.0000**
Copper, total	UG/L	3406-MW03	41					200.0000**
Lead, total	UG/L	3406-MW03	40					10.0000**
Nickel, total	UG/L	3406-MW03	32					50.0000**
Selenium, total	UG/L	3406-MW03	40					20.0000**
Silver, total	UG/L	3406-MW03	40					10.0000**
Thallium, total	UG/L	3406-MW03	32					10.0000**
Vanadium, total	UG/L	3406-MW03	33					40.0000**
Zinc, total	UG/L	3406-MW03	40					50.0000**
Antimony, total	UG/L	3406-MW04	34					30.0000**
Arsenic, total	UG/L	3406-MW04	40					10.0000**
Barium, total	UG/L	3406-MW04	40	265.0575	237.9422	265.0575	265.0575	1216.8263
Beryllium, total	UG/L	3406-MW04	32					2.0000**
Cadmium, total	UG/L	3406-MW04	43					1.8000**
Chromium, total	UG/L	3406-MW04	40					10.0000**
Cobalt, total	UG/L	3406-MW04	32					10.0000**
Copper, total	UG/L	3406-MW04	40					200.0000**
Lead, total	UG/L	3406-MW04	40					10.0000**
Nickel, total	UG/L	3406-MW04	32					50.0000**
Selenium, total	UG/L	3406-MW04	40					20.0000**
Silver, total	UG/L	3406-MW04	40					10.0000**
Thallium, total	UG/L	3406-MW04	32					10.0000**
Vanadium, total	UG/L	3406-MW04	32					40.0000**
Zinc, total	UG/L	3406-MW04	40					50.0000**
Antimony, total	UG/L	3406-MW04D	30					30.0000**
Arsenic, total	UG/L	3406-MW04D	30					10.0000**
Barium, total	UG/L	3406-MW04D	30	364.2000	201.5970	364.2000	364.2000	1170.5880
Beryllium, total	UG/L	3406-MW04D	30					8.0000**
Cadmium, total	UG/L	3406-MW04D	30					2.1000**
Chromium, total	UG/L	3406-MW04D	30	9.7300	3.3377	9.7300	9.7300	23.0807
Cobalt, total	UG/L	3406-MW04D	30					26.0000**
Copper, total	UG/L	3406-MW04D	30					200.0000**
Lead, total	UG/L	3406-MW04D	29					12.1000**
Nickel, total	UG/L	3406-MW04D	30					50.0000**
Selenium, total	UG/L	3406-MW04D	30					20.0000**
Silver, total	UG/L	3406-MW04D	30					10.0000**
Thallium, total	UG/L	3406-MW04D	30					10.0000**

* - Insufficient Data
** - Detection Frequency < 25%
*** - Zero Variance

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-Cusum Control Charts

Constituent	Units	Well	N	Mean	SD	S(i-1)	S(i)	Limit
Vanadium, total	UG/L	3406-MW04D	30					120.0000**
Zinc, total	UG/L	3406-MW04D	32	60.7188	41.9856	60.7188	60.7188	228.6613
Antimony, total	UG/L	3406-MW05	34					30.0000**
Arsenic, total	UG/L	3406-MW05	40					11.9000**
Barium, total	UG/L	3406-MW05	40	258.3725	244.7103	258.3725	258.3725	1237.2139
Beryllium, total	UG/L	3406-MW05	32					2.0000**
Cadmium, total	UG/L	3406-MW05	43					1.0000**
Chromium, total	UG/L	3406-MW05	40	8.7550	2.2721	8.7550	8.7550	17.8435
Cobalt, total	UG/L	3406-MW05	32					10.0000**
Copper, total	UG/L	3406-MW05	40					200.0000**
Lead, total	UG/L	3406-MW05	40					10.0000**
Nickel, total	UG/L	3406-MW05	32					50.0000**
Selenium, total	UG/L	3406-MW05	40					20.0000**
Silver, total	UG/L	3406-MW05	40					10.0000**
Thallium, total	UG/L	3406-MW05	32					10.0000**
Vanadium, total	UG/L	3406-MW05	32	32.4281	13.4890	32.4281	32.4281	86.3842
Zinc, total	UG/L	3406-MW05	40					110.0000**
Antimony, total	UG/L	3406-MW06	34					30.0000**
Arsenic, total	UG/L	3406-MW06	32					10.0000**
Barium, total	UG/L	3406-MW06	32	326.7875	227.2577	326.7875	326.7875	1235.8183
Beryllium, total	UG/L	3406-MW06	32					2.6000**
Cadmium, total	UG/L	3406-MW06	35					1.0000**
Chromium, total	UG/L	3406-MW06	32					10.0000**
Cobalt, total	UG/L	3406-MW06	32					10.0000**
Copper, total	UG/L	3406-MW06	32					200.0000**
Lead, total	UG/L	3406-MW06	32					10.0000**
Nickel, total	UG/L	3406-MW06	32					50.0000**
Selenium, total	UG/L	3406-MW06	32					20.0000**
Silver, total	UG/L	3406-MW06	32					10.0000**
Thallium, total	UG/L	3406-MW06	32					10.0000**
Vanadium, total	UG/L	3406-MW06	32					45.6000**
Zinc, total	UG/L	3406-MW06	32					310.0000**
Antimony, total	UG/L	3406-MW07	31					30.0000**
Arsenic, total	UG/L	3406-MW07	31					10.6000**
Barium, total	UG/L	3406-MW07	31	325.8484	238.7327	325.8484	325.8484	1280.7792
Beryllium, total	UG/L	3406-MW07	31					2.0000**
Cadmium, total	UG/L	3406-MW07	31					1.0000**
Chromium, total	UG/L	3406-MW07	31	8.1129	3.2502	8.1129	8.1129	21.1137
Cobalt, total	UG/L	3406-MW07	31					10.0000**
Copper, total	UG/L	3406-MW07	31					200.0000**
Lead, total	UG/L	3406-MW07	31					10.0000**
Nickel, total	UG/L	3406-MW07	31					50.0000**
Selenium, total	UG/L	3406-MW07	31					20.0000**
Silver, total	UG/L	3406-MW07	30					10.0000**
Thallium, total	UG/L	3406-MW07	31					10.0000**
Vanadium, total	UG/L	3406-MW07	31					40.0000**
Zinc, total	UG/L	3406-MW07	31					50.0000**
Antimony, total	UG/L	3406-MW08	32					30.0000**
Arsenic, total	UG/L	3406-MW08	32					11.3000**
Barium, total	UG/L	3406-MW08	31	351.3194	193.7703	351.3194	351.3194	1126.4007
Beryllium, total	UG/L	3406-MW08	31					2.0000**
Cadmium, total	UG/L	3406-MW08	32					1.3000**
Chromium, total	UG/L	3406-MW08	31					11.5000**
Cobalt, total	UG/L	3406-MW08	35	12.0286	3.7626	12.0286	12.0286	27.0791
Copper, total	UG/L	3406-MW08	31					200.0000**
Lead, total	UG/L	3406-MW08	30					10.0000**
Nickel, total	UG/L	3406-MW08	31					50.0000**
Selenium, total	UG/L	3406-MW08	31					20.0000**
Silver, total	UG/L	3406-MW08	31					11.6000**
Thallium, total	UG/L	3406-MW08	32					10.0000**
Vanadium, total	UG/L	3406-MW08	32					40.0000**
Zinc, total	UG/L	3406-MW08	31					79.1000**
Antimony, total	UG/L	3406-MW09R	29					30.0000**
Arsenic, total	UG/L	3406-MW09R	29					10.0000**
Barium, total	UG/L	3406-MW09R	29	354.6345	221.0560	354.6345	354.6345	1238.8583
Beryllium, total	UG/L	3406-MW09R	29					2.0000**
Cadmium, total	UG/L	3406-MW09R	29					1.0000**
Chromium, total	UG/L	3406-MW09R	29					49.9000**
Cobalt, total	UG/L	3406-MW09R	33					18.2000**
Copper, total	UG/L	3406-MW09R	29					200.0000**
Lead, total	UG/L	3406-MW09R	29					10.0000**
Nickel, total	UG/L	3406-MW09R	29					50.0000**
Selenium, total	UG/L	3406-MW09R	29					20.0000**

* - Insufficient Data
** - Detection Frequency < 25%
*** - Zero Variance

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-Cusum Control Charts

Constituent	Units	Well	N	Mean	SD	S(i-1)	S(i)	Limit
Silver, total	UG/L	3406-MW09R	29					10.0000**
Thallium, total	UG/L	3406-MW09R	29					10.0000**
Vanadium, total	UG/L	3406-MW09R	30					106.0000**
Zinc, total	UG/L	3406-MW09R	29					87.9000**
Antimony, total	UG/L	3406-MW10	30					30.0000**
Arsenic, total	UG/L	3406-MW10	30					10.0000**
Barium, total	UG/L	3406-MW10	30	337.1367	234.2942	337.1367	337.1367	1274.3136
Beryllium, total	UG/L	3406-MW10	30					2.0000**
Cadmium, total	UG/L	3406-MW10	30					1.0000**
Chromium, total	UG/L	3406-MW10	32	9.4469	3.9587	9.4469	9.4469	25.2815
Cobalt, total	UG/L	3406-MW10	30					13.3000**
Copper, total	UG/L	3406-MW10	30					200.0000**
Lead, total	UG/L	3406-MW10	30					10.0000**
Nickel, total	UG/L	3406-MW10	30					50.0000**
Selenium, total	UG/L	3406-MW10	30					20.0000**
Silver, total	UG/L	3406-MW10	30					10.0000**
Thallium, total	UG/L	3406-MW10	30					10.0000**
Vanadium, total	UG/L	3406-MW10	30					40.0000**
Zinc, total	UG/L	3406-MW10	30					50.0000**
Antimony, total	UG/L	3406-MW11	30					30.0000**
Arsenic, total	UG/L	3406-MW11	30					10.0000**
Barium, total	UG/L	3406-MW11	30	362.6900	213.5426	362.6900	362.6900	1216.8606
Beryllium, total	UG/L	3406-MW11	30					2.0000**
Cadmium, total	UG/L	3406-MW11	30					1.0000**
Chromium, total	UG/L	3406-MW11	30					10.0000**
Cobalt, total	UG/L	3406-MW11	30					10.0000**
Copper, total	UG/L	3406-MW11	30					200.0000**
Lead, total	UG/L	3406-MW11	30					10.0000**
Nickel, total	UG/L	3406-MW11	30					50.0000**
Selenium, total	UG/L	3406-MW11	30					20.0000**
Silver, total	UG/L	3406-MW11	30					10.0000**
Thallium, total	UG/L	3406-MW11	30					10.0000**
Vanadium, total	UG/L	3406-MW11	30					40.0000**
Zinc, total	UG/L	3406-MW11	30	38.9300	17.3048	38.9300	38.9300	108.1493
Antimony, total	UG/L	3406-MW11D	30					30.0000**
Arsenic, total	UG/L	3406-MW11D	30					10.0000**
Barium, total	UG/L	3406-MW11D	30	385.7000	181.2794	385.7000	385.7000	1110.8175
Beryllium, total	UG/L	3406-MW11D	30					2.4000**
Cadmium, total	UG/L	3406-MW11D	30					1.4000**
Chromium, total	UG/L	3406-MW11D	32	13.4719	11.5017	13.4719	13.4719	59.4786
Cobalt, total	UG/L	3406-MW11D	29					23.1000**
Copper, total	UG/L	3406-MW11D	31	176.7387	60.3438	176.7387	176.7387	418.1141
Lead, total	UG/L	3406-MW11D	30					12.7000**
Nickel, total	UG/L	3406-MW11D	30					50.0000**
Selenium, total	UG/L	3406-MW11D	30					20.0000**
Silver, total	UG/L	3406-MW11D	30					10.0000**
Thallium, total	UG/L	3406-MW11D	30					10.0000**
Vanadium, total	UG/L	3406-MW11D	31	50.2194	28.2430	50.2194	50.2194	163.1913
Zinc, total	UG/L	3406-MW11D	31	57.4968	30.7744	57.4968	57.4968	180.5944
Antimony, total	UG/L	3406-MW12	30					30.0000**
Arsenic, total	UG/L	3406-MW12	30					10.0000**
Barium, total	UG/L	3406-MW12	30	342.2200	227.3117	342.2200	342.2200	1251.4668
Beryllium, total	UG/L	3406-MW12	30					2.0000**
Cadmium, total	UG/L	3406-MW12	30					1.0000**
Chromium, total	UG/L	3406-MW12	30					10.7000**
Cobalt, total	UG/L	3406-MW12	30					11.0000**
Copper, total	UG/L	3406-MW12	30					200.0000**
Lead, total	UG/L	3406-MW12	31					25.0000**
Nickel, total	UG/L	3406-MW12	30					50.0000**
Selenium, total	UG/L	3406-MW12	30					20.0000**
Silver, total	UG/L	3406-MW12	30					10.0000**
Thallium, total	UG/L	3406-MW12	30					10.0000**
Vanadium, total	UG/L	3406-MW12	30					40.0000**
Zinc, total	UG/L	3406-MW12	30	61.3367	57.5341	61.3367	61.3367	291.4732
Antimony, total	UG/L	3406-MW12D	30					30.0000**
Arsenic, total	UG/L	3406-MW12D	30					10.0000**
Barium, total	UG/L	3406-MW12D	31	378.0581	189.4519	378.0581	378.0581	1135.8657
Beryllium, total	UG/L	3406-MW12D	30					2.6000**
Cadmium, total	UG/L	3406-MW12D	30					1.0000**
Chromium, total	UG/L	3406-MW12D	31	40.2097	68.7825	40.2097	40.2097	315.3396
Cobalt, total	UG/L	3406-MW12D	31	18.1032	21.7819	18.1032	18.1032	105.2307
Copper, total	UG/L	3406-MW12D	31	174.5032	57.9808	174.5032	174.5032	406.4263
Lead, total	UG/L	3406-MW12D	28					24.0000**

* - Insufficient Data
** - Detection Frequency < 25%
*** - Zero Variance

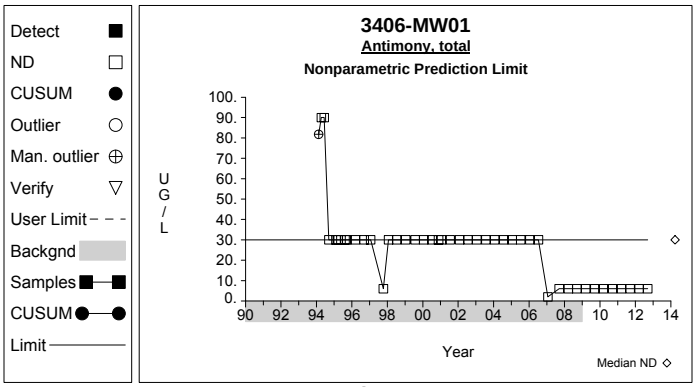
Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-Cusum Control Charts

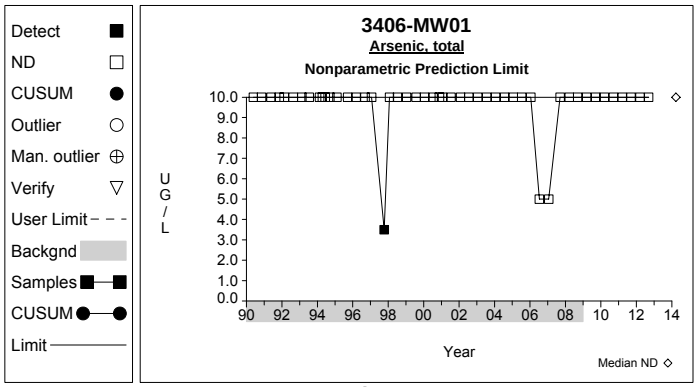
Constituent	Units	Well	N	Mean	SD	S(i-1)	S(i)	Limit
Nickel, total	UG/L	3406-MW12D	31					108.0000**
Selenium, total	UG/L	3406-MW12D	30					20.0000**
Silver, total	UG/L	3406-MW12D	30					10.0000**
Thallium, total	UG/L	3406-MW12D	30					10.0000**
Vanadium, total	UG/L	3406-MW12D	31	72.1000	84.8639	72.1000	72.1000	411.5556
Zinc, total	UG/L	3406-MW12D	31	91.9903	118.3152	91.9903	91.9903	565.2509

* - Insufficient Data
** - Detection Frequency < 25%
*** - Zero Variance

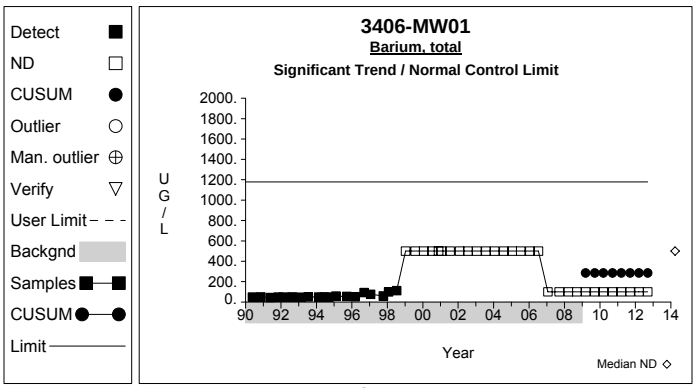
Intra-Well Control Charts



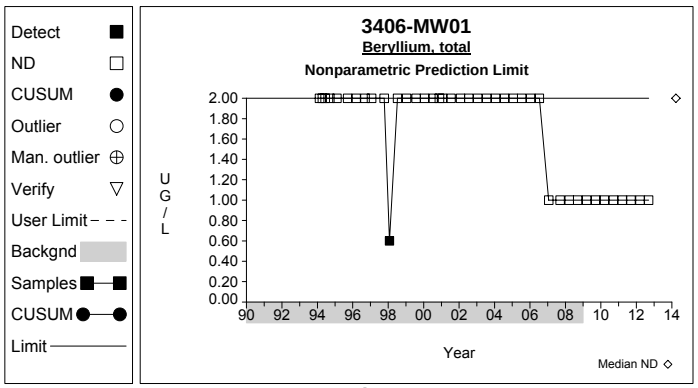
Graph 1



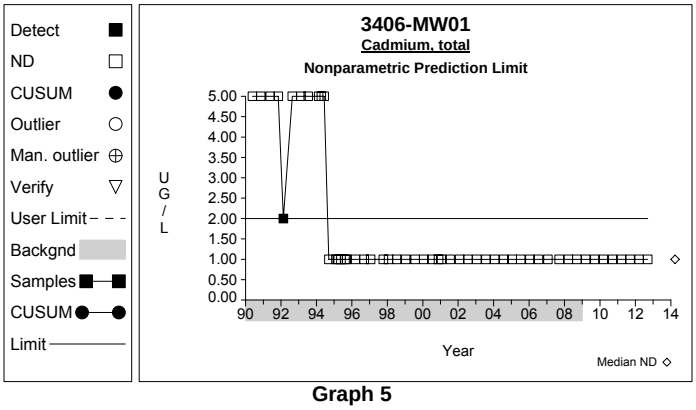
Graph 2



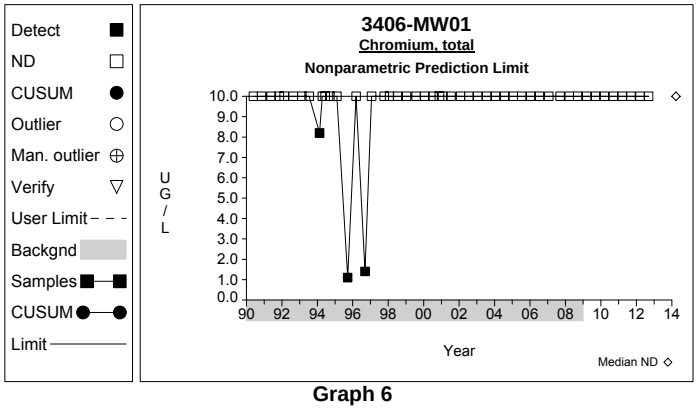
Graph 3



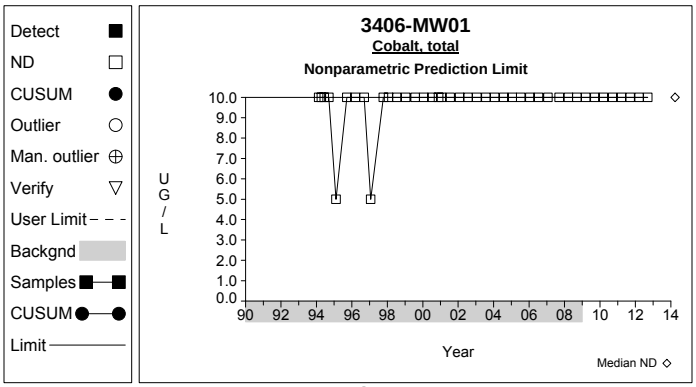
Graph 4



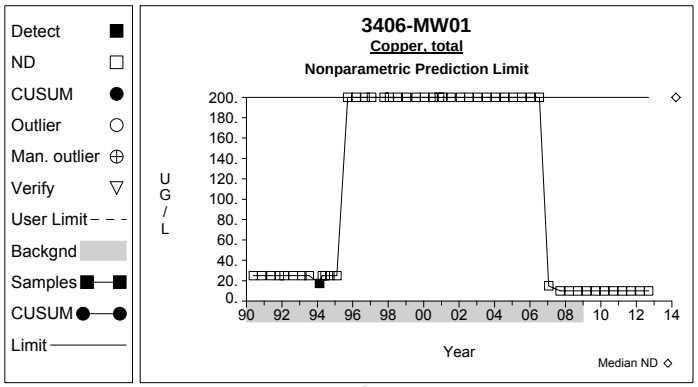
Graph 5



Graph 6

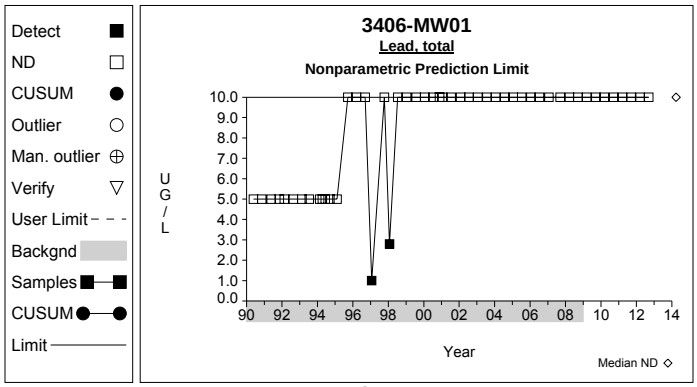


Graph 7

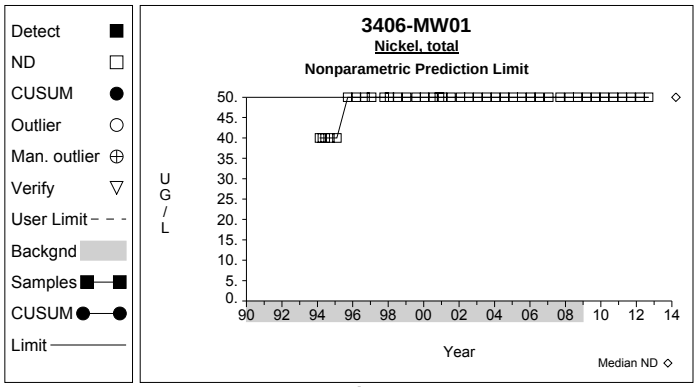


Graph 8

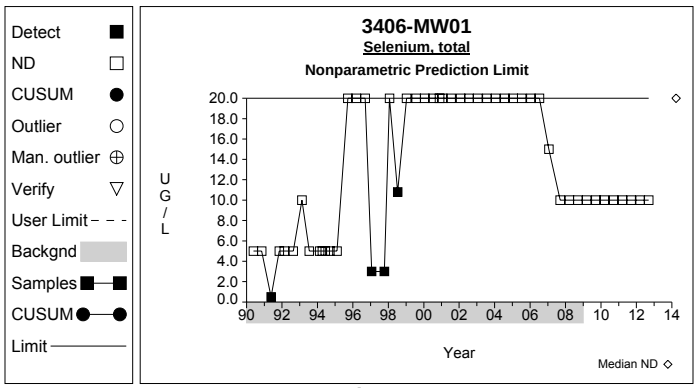
Intra-Well Control Charts



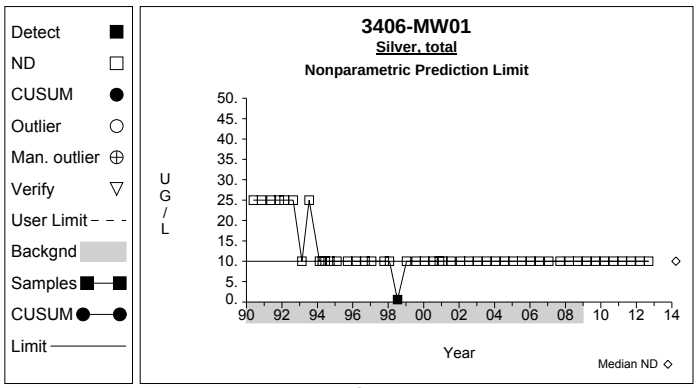
Graph 9



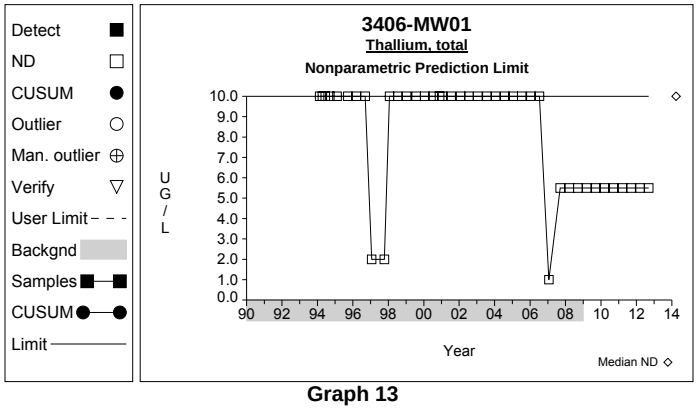
Graph 10



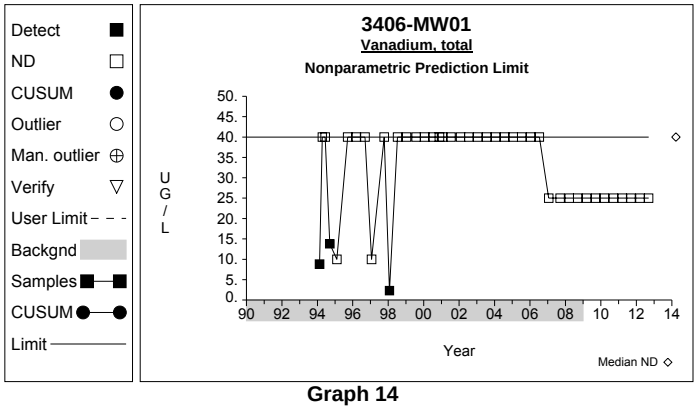
Graph 11



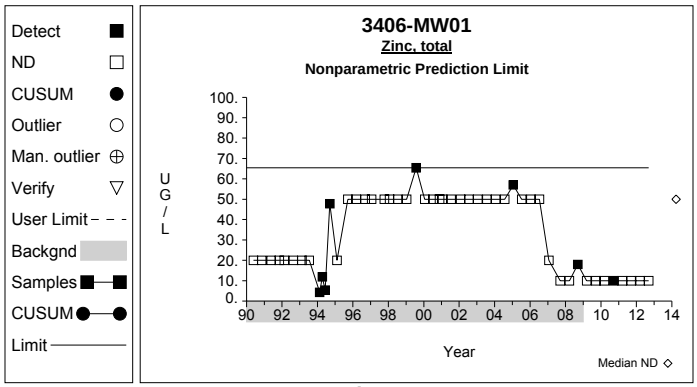
Graph 12



Graph 13

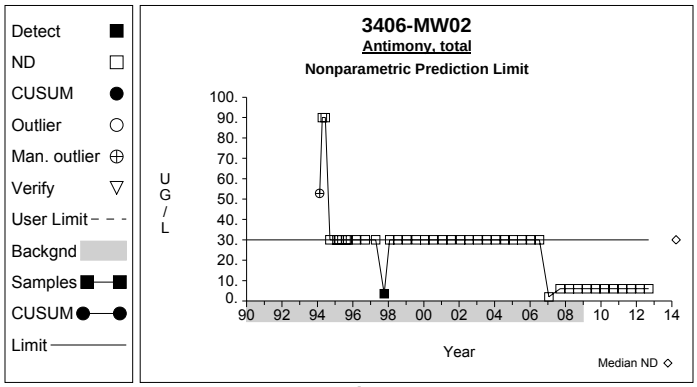


Graph 14

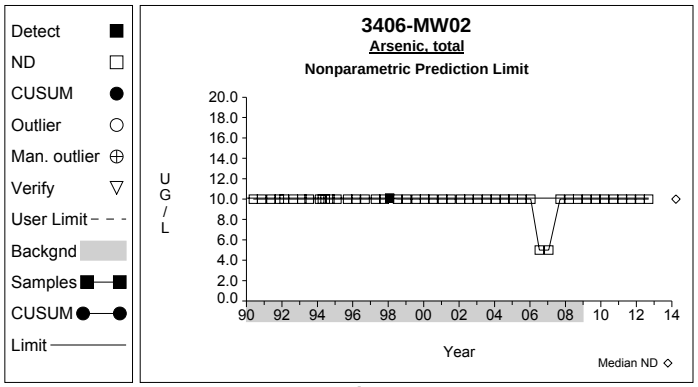


Graph 15

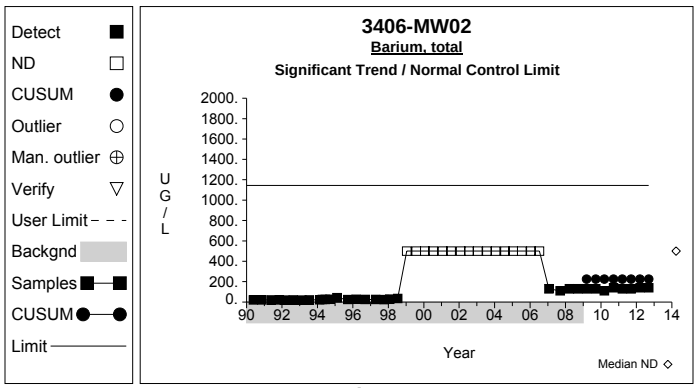
Intra-Well Control Charts



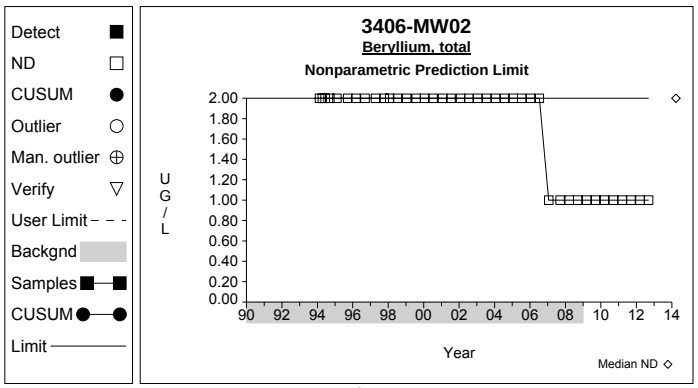
Graph 16



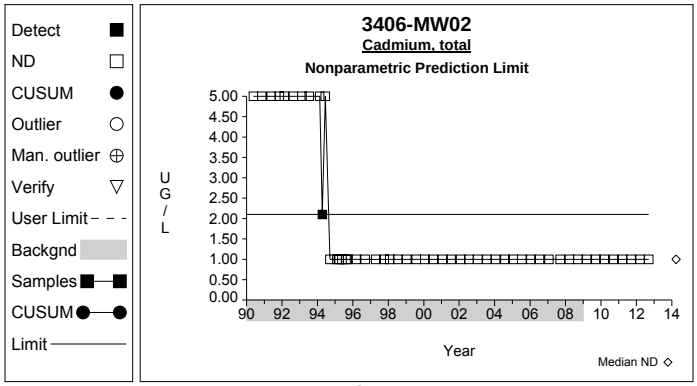
Graph 17



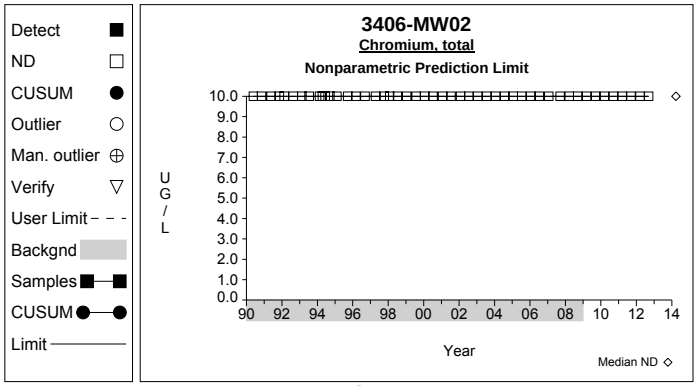
Graph 18



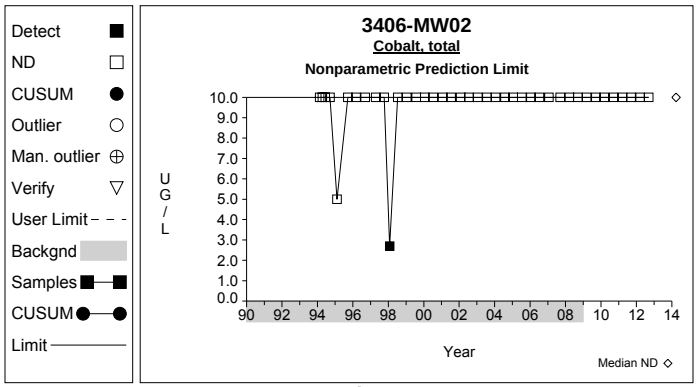
Graph 19



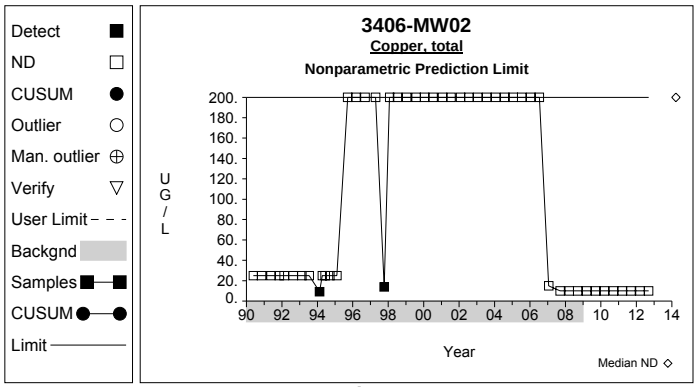
Graph 20



Graph 21

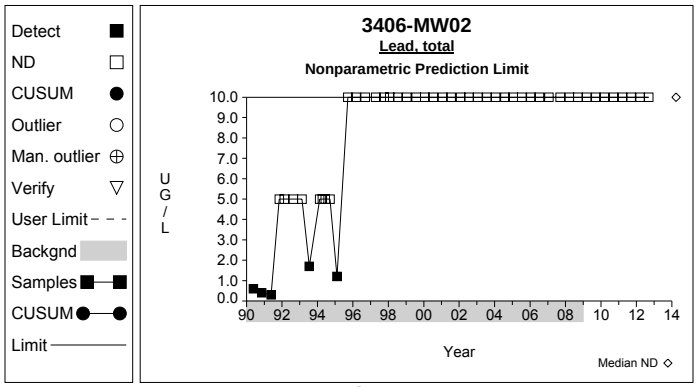


Graph 22

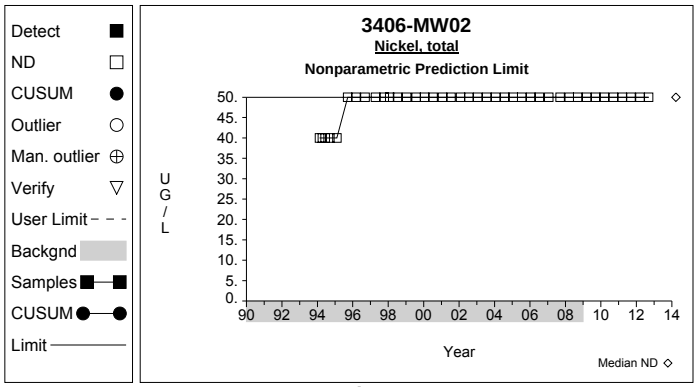


Graph 23

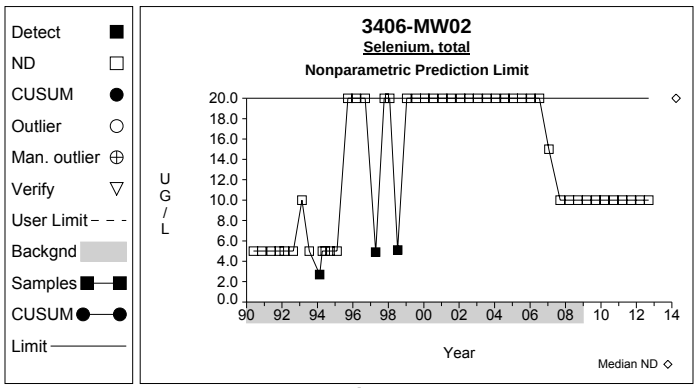
Intra-Well Control Charts



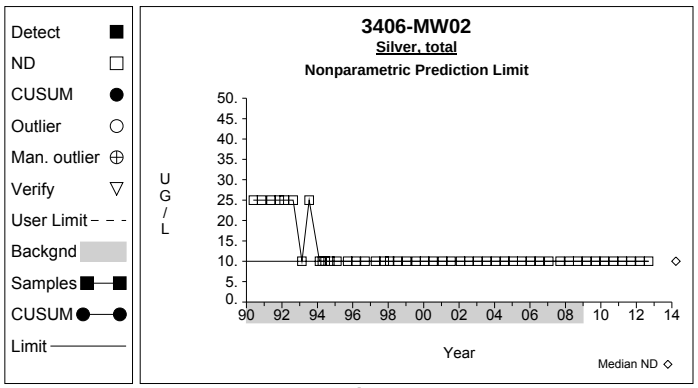
Graph 24



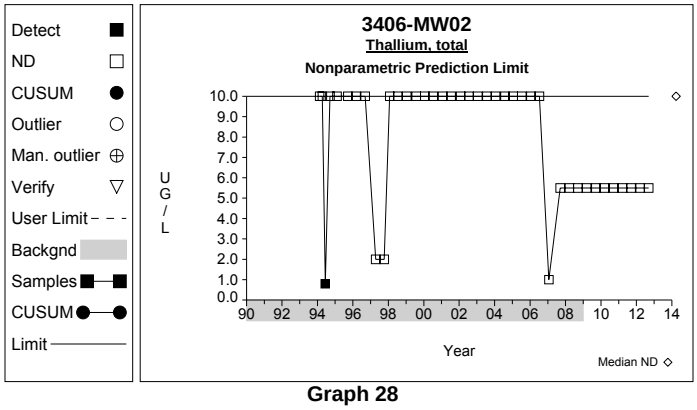
Graph 25



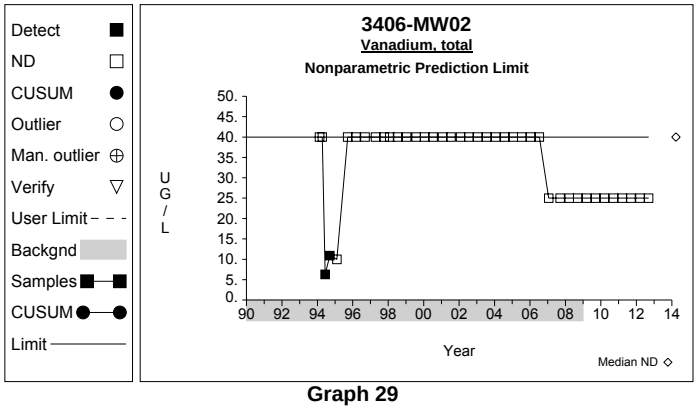
Graph 26



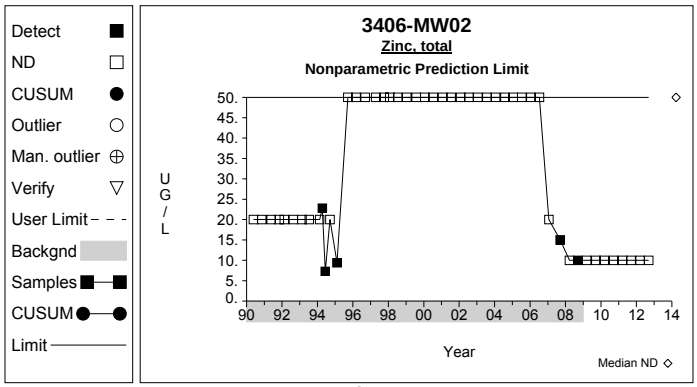
Graph 27



Graph 28

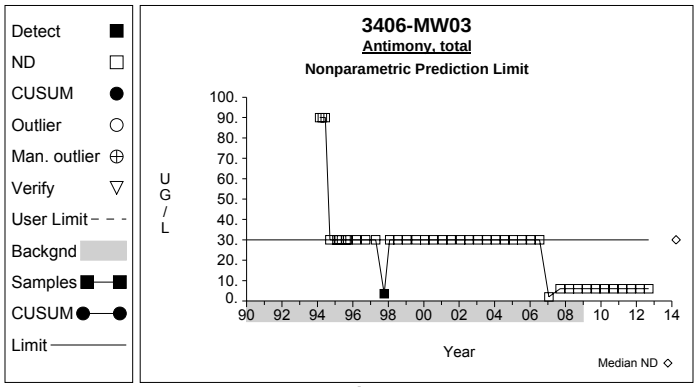


Graph 29

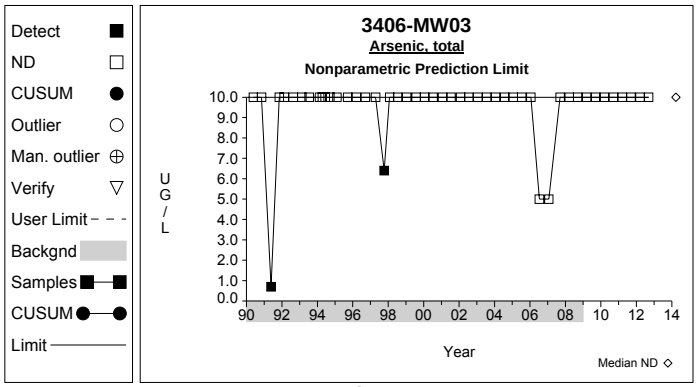


Graph 30

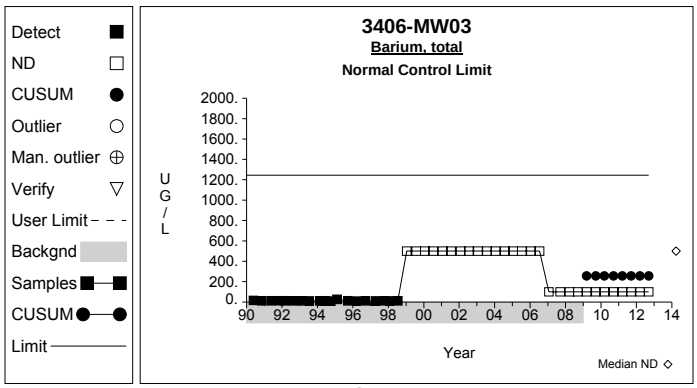
Intra-Well Control Charts



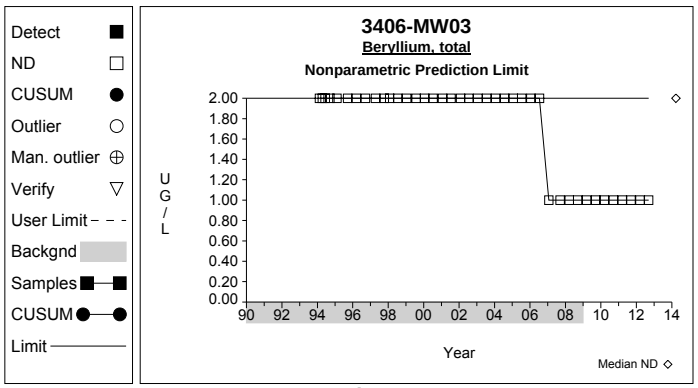
Graph 31



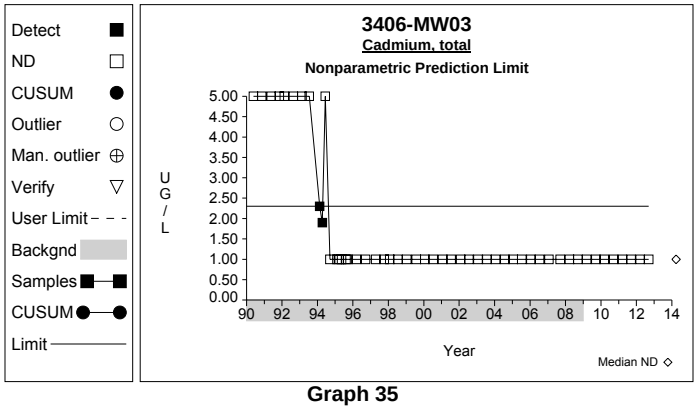
Graph 32



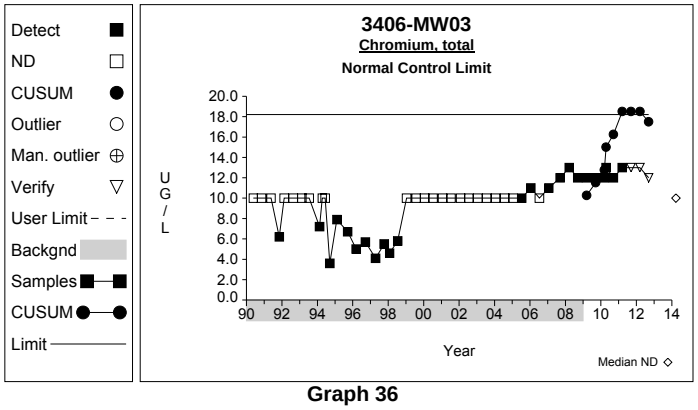
Graph 33



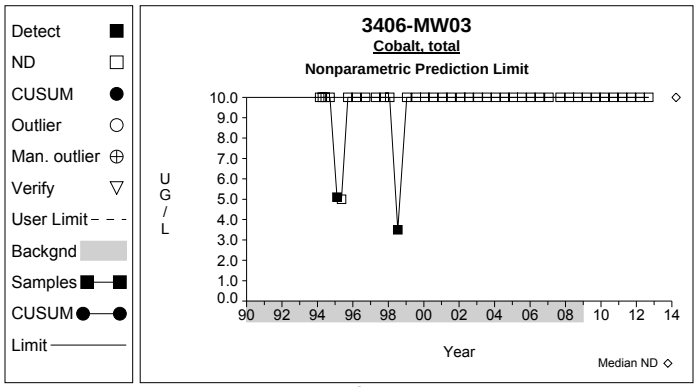
Graph 34



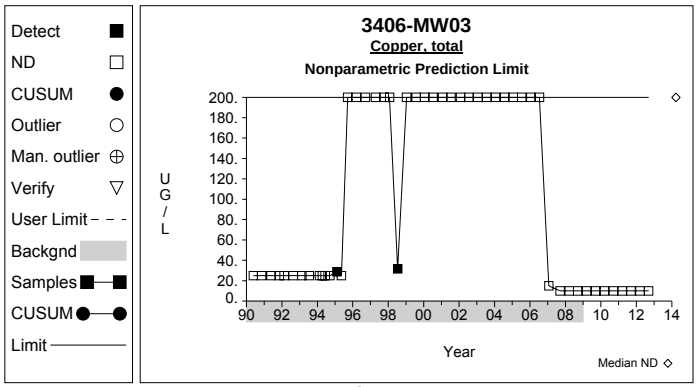
Graph 35



Graph 36

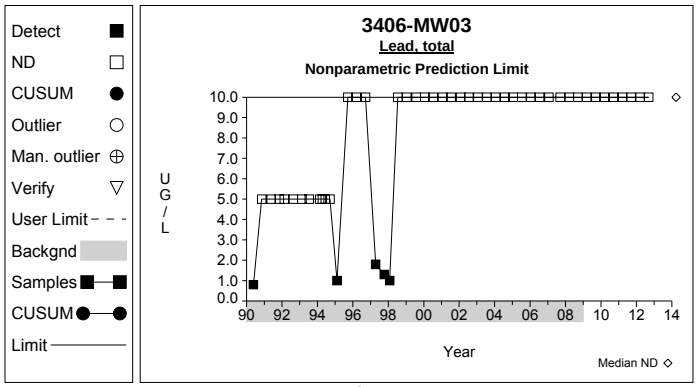


Graph 37

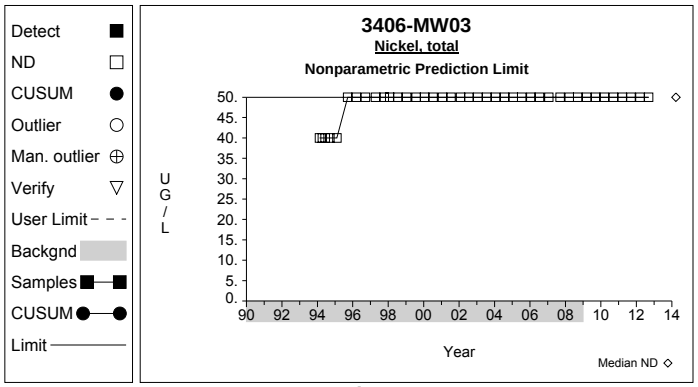


Graph 38

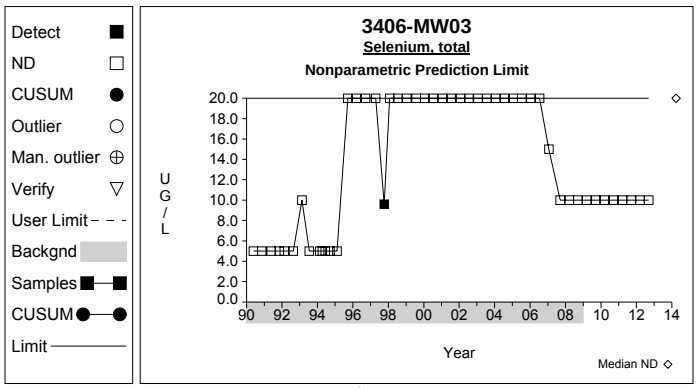
Intra-Well Control Charts



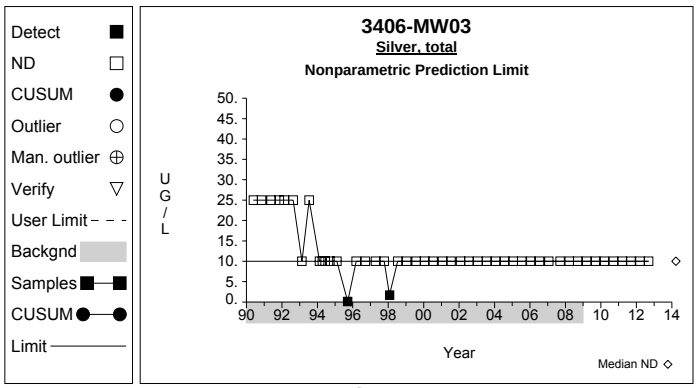
Graph 39



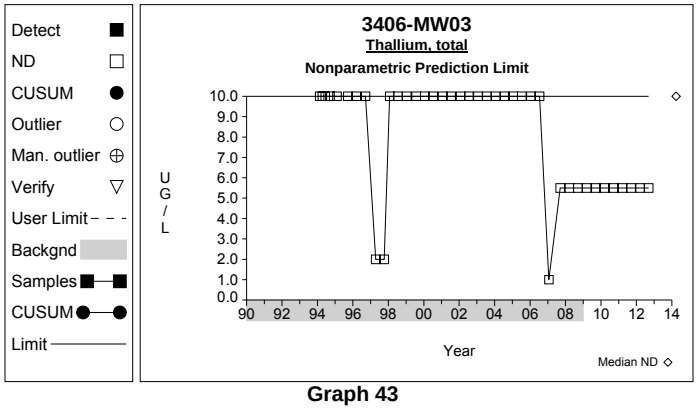
Graph 40



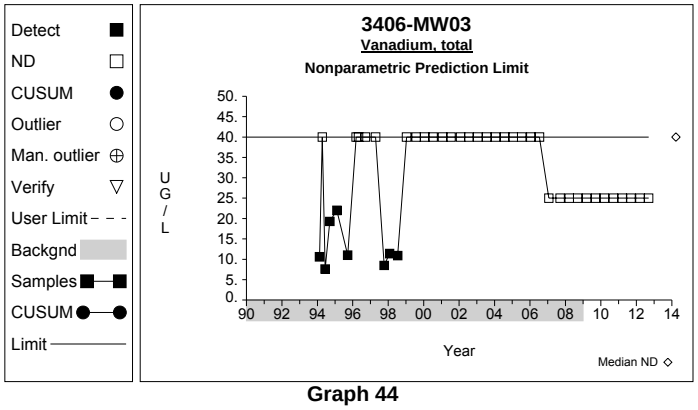
Graph 41



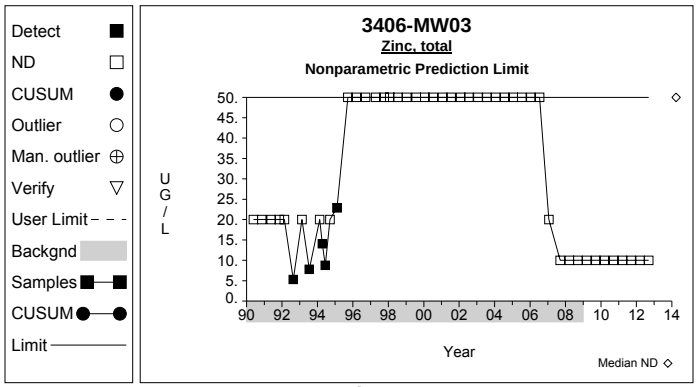
Graph 42



Graph 43

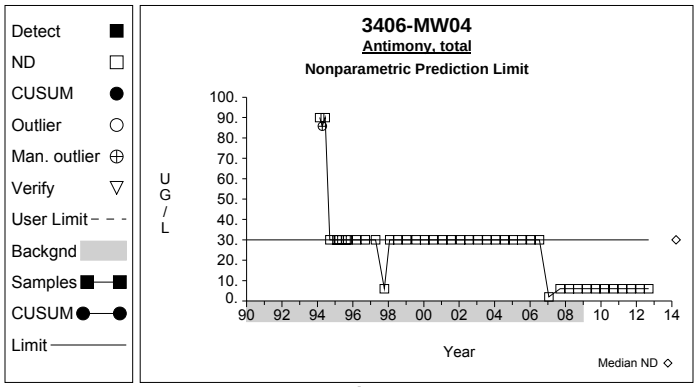


Graph 44

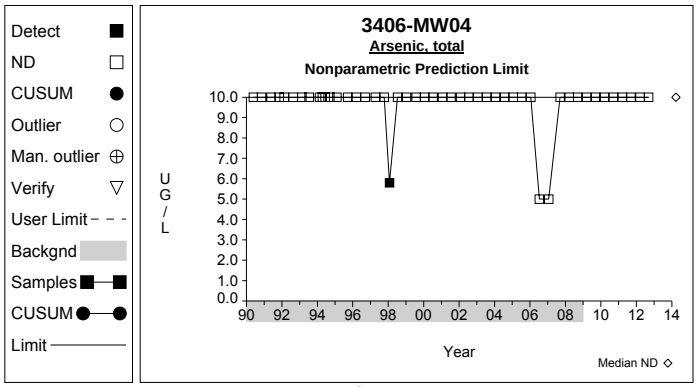


Graph 45

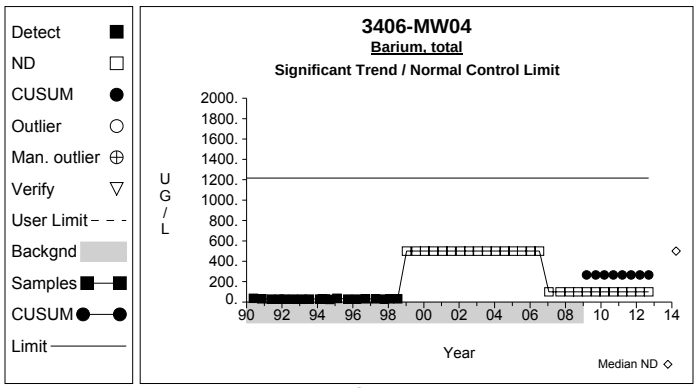
Intra-Well Control Charts



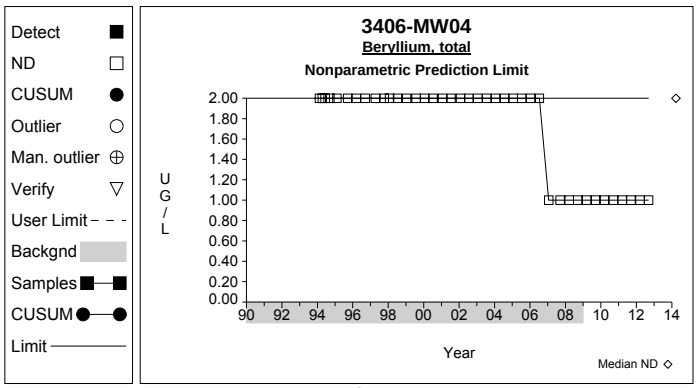
Graph 46



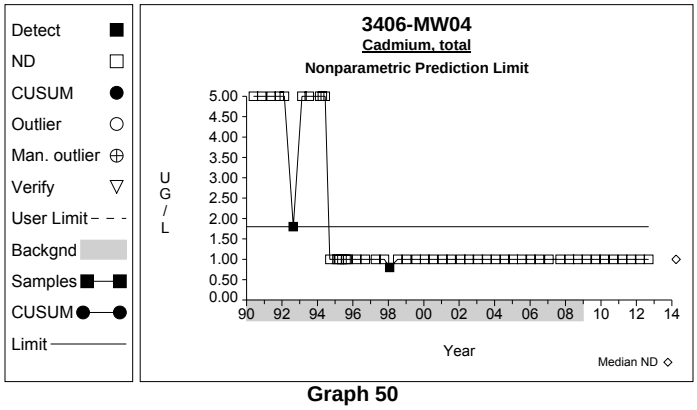
Graph 47



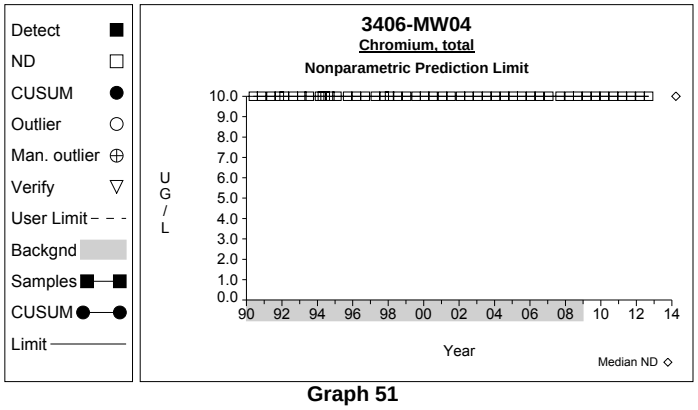
Graph 48



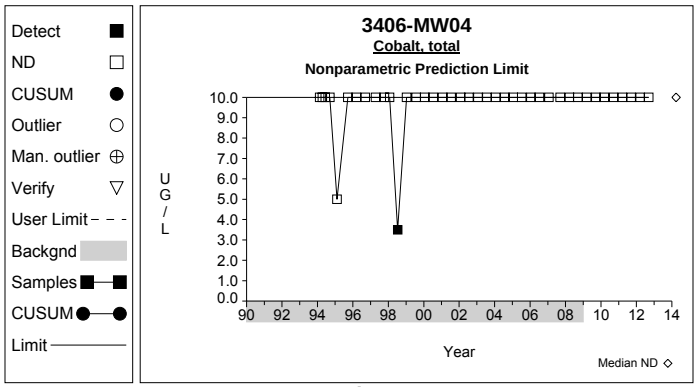
Graph 49



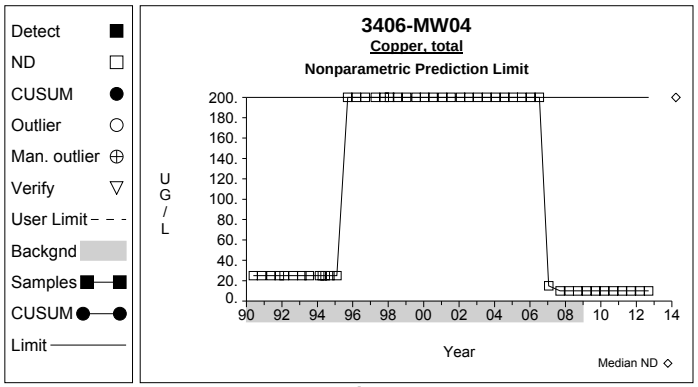
Graph 50



Graph 51

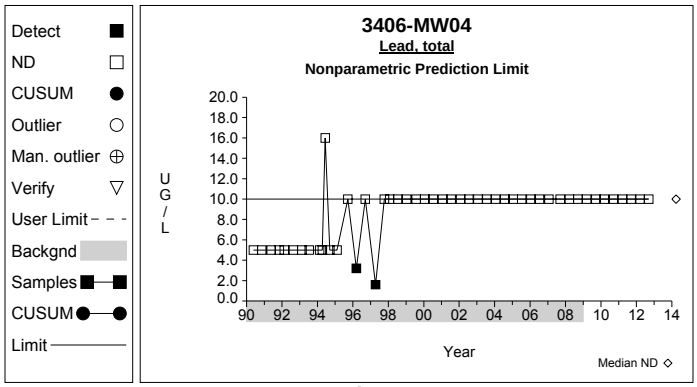


Graph 52

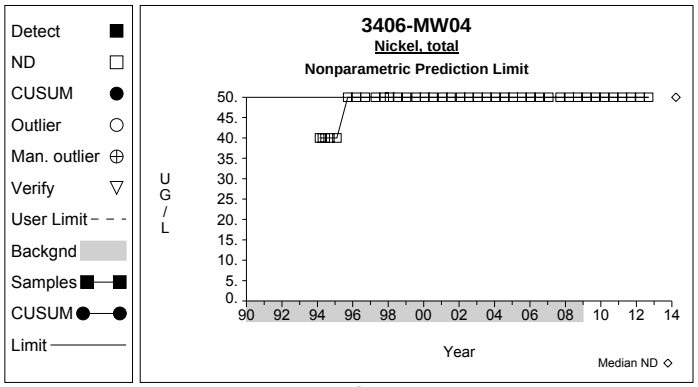


Graph 53

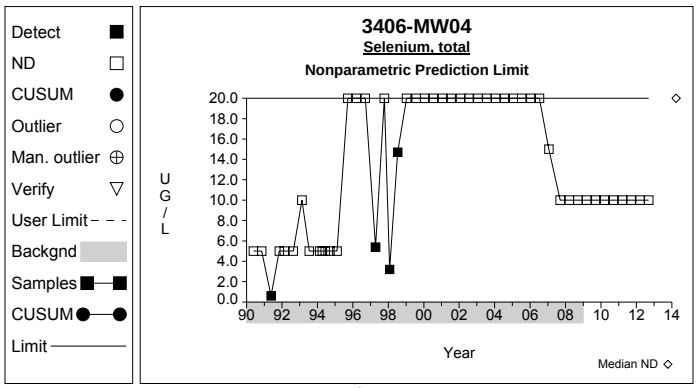
Intra-Well Control Charts



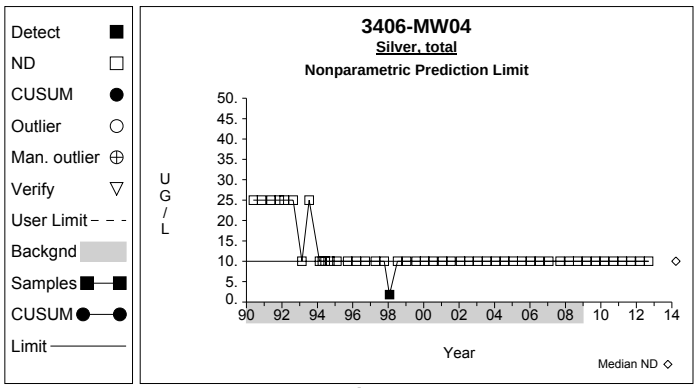
Graph 54



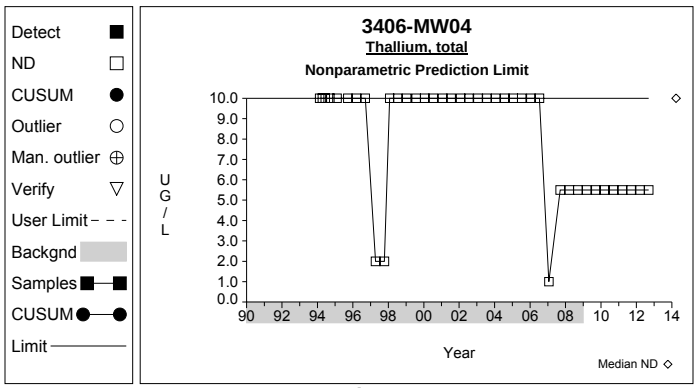
Graph 55



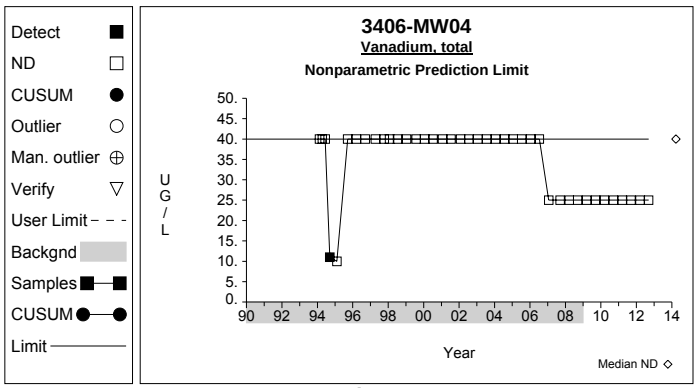
Graph 56



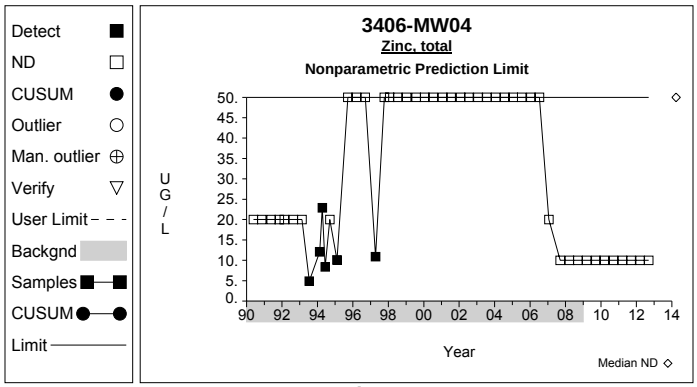
Graph 57



Graph 58

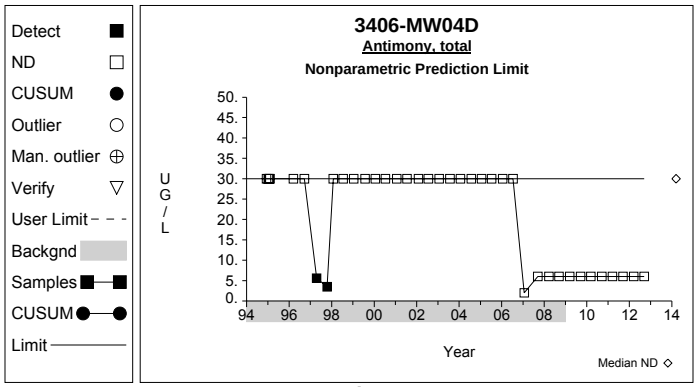


Graph 59

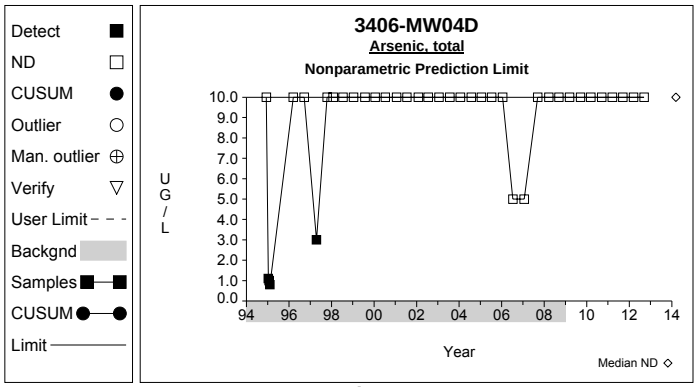


Graph 60

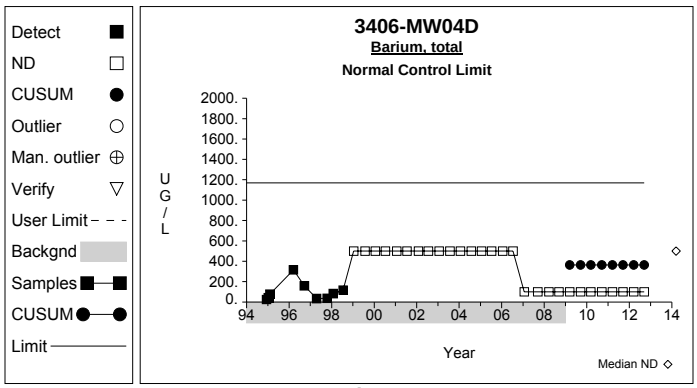
Intra-Well Control Charts



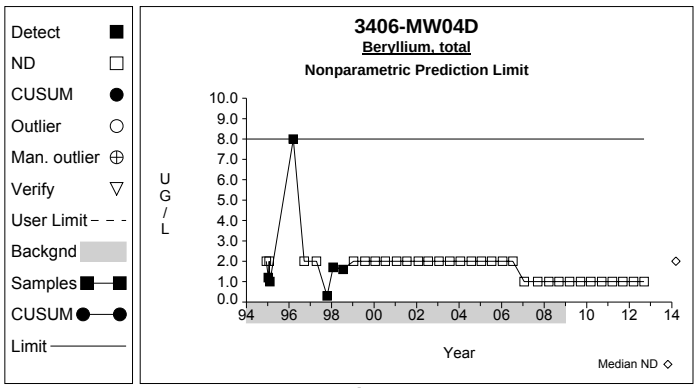
Graph 61



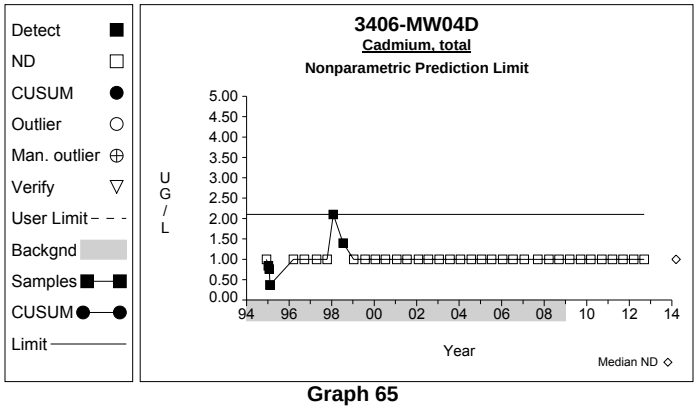
Graph 62



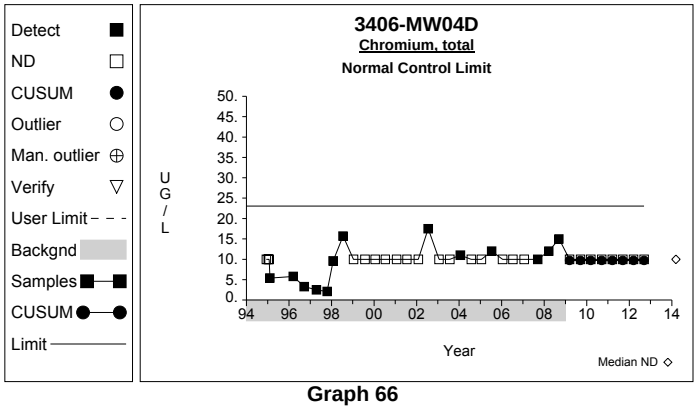
Graph 63



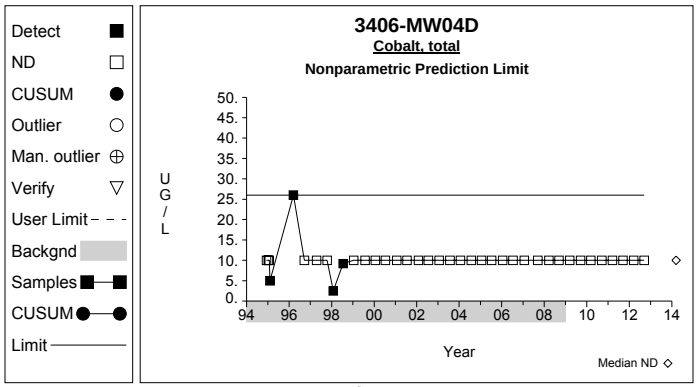
Graph 64



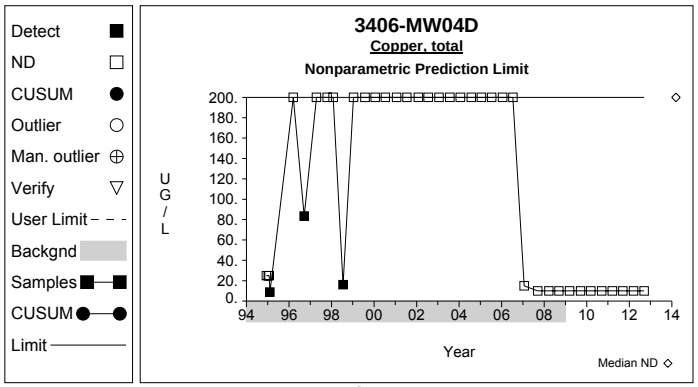
Graph 65



Graph 66

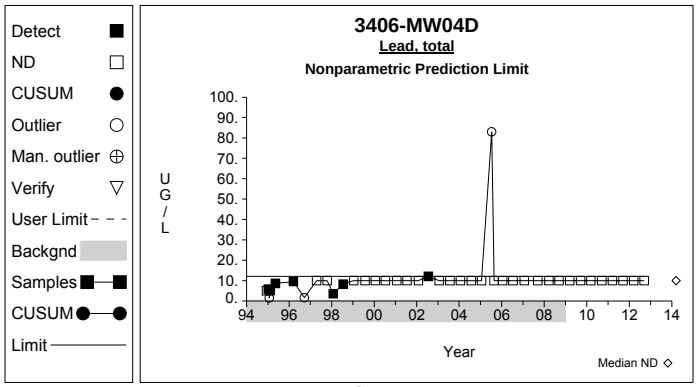


Graph 67

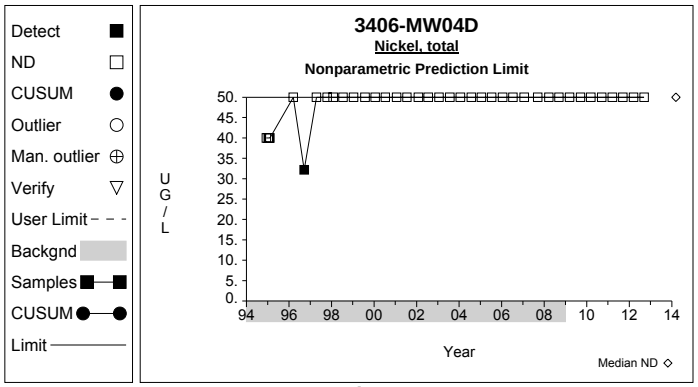


Graph 68

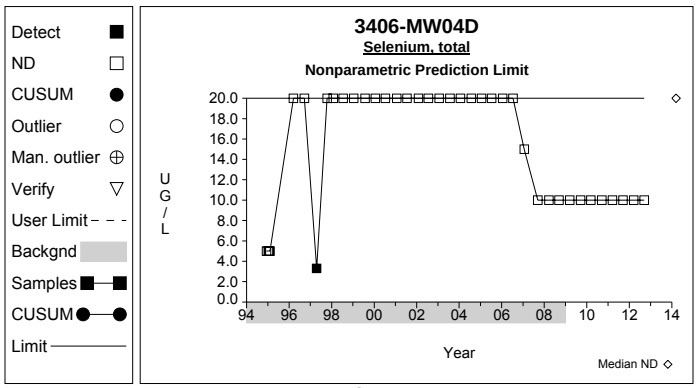
Intra-Well Control Charts



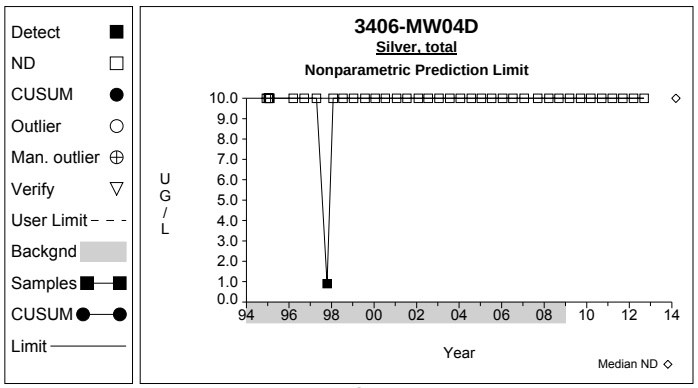
Graph 69



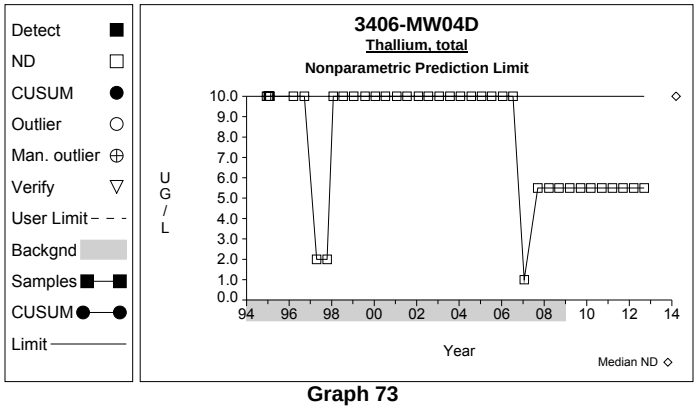
Graph 70



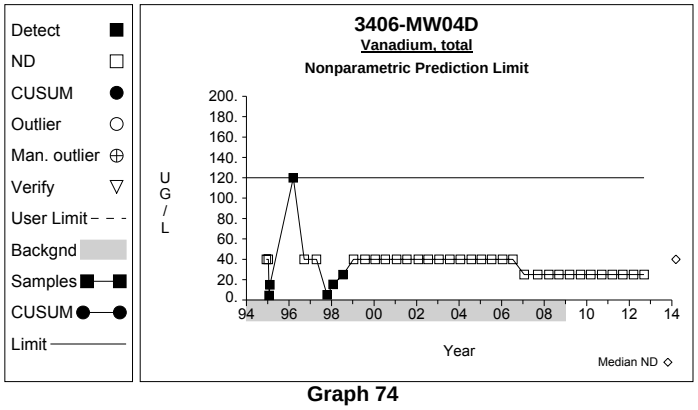
Graph 71



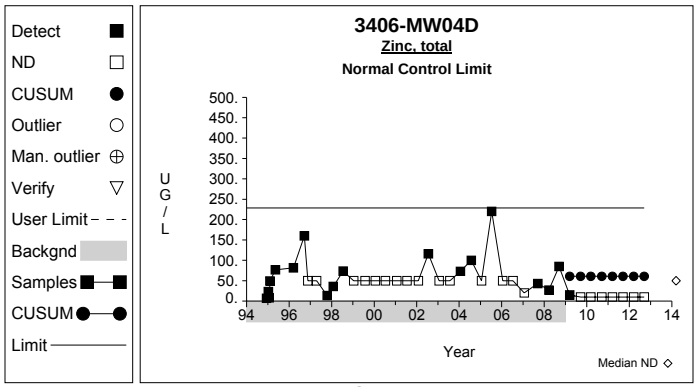
Graph 72



Graph 73

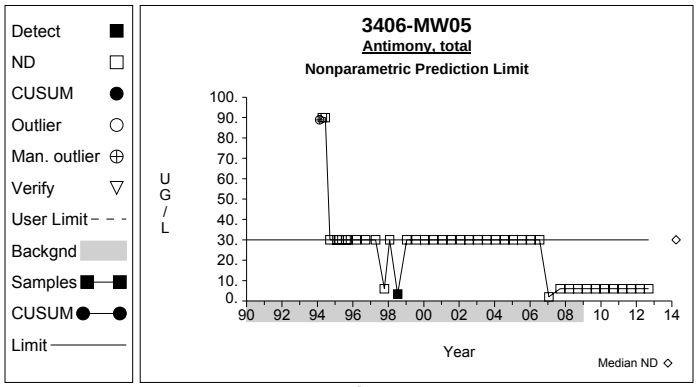


Graph 74

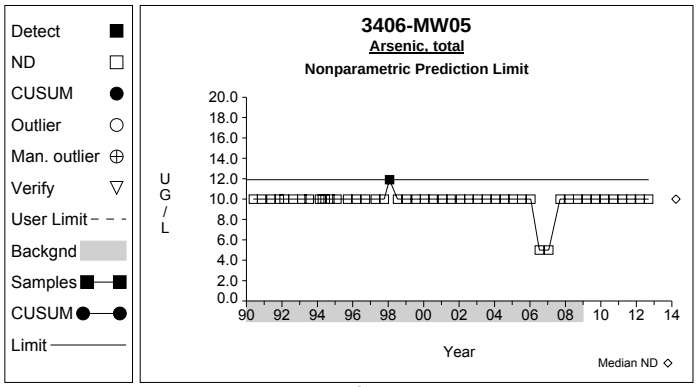


Graph 75

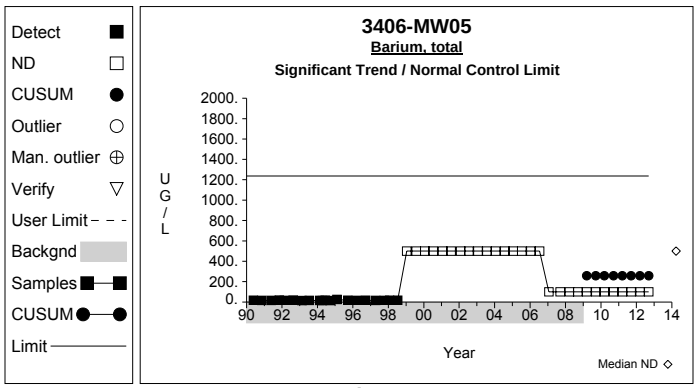
Intra-Well Control Charts



Graph 76



Graph 77



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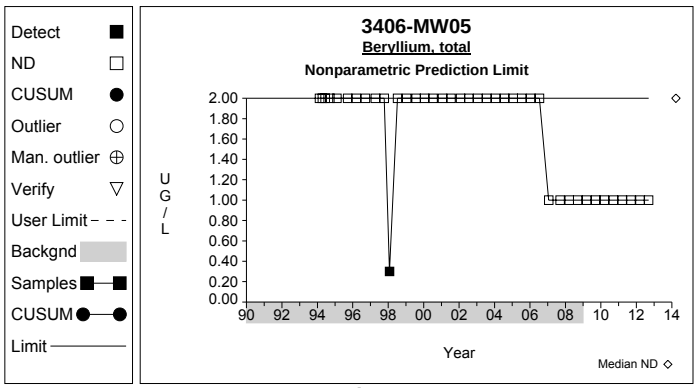
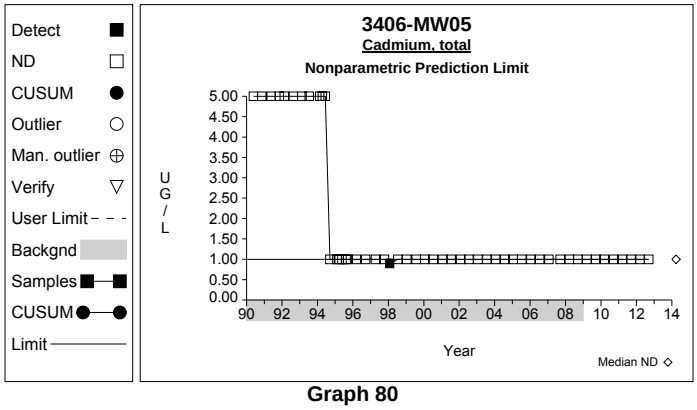
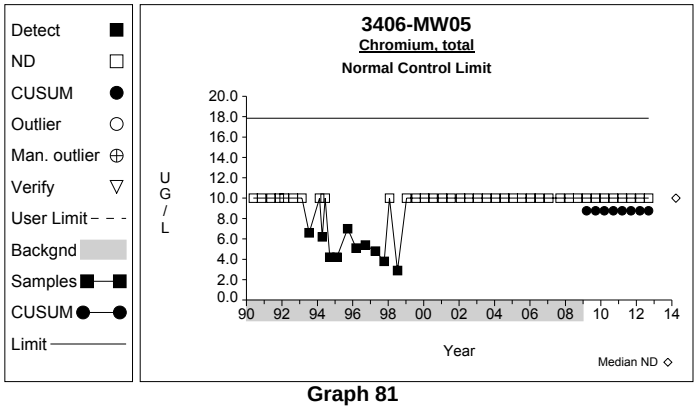


Graph 79



Graph 80



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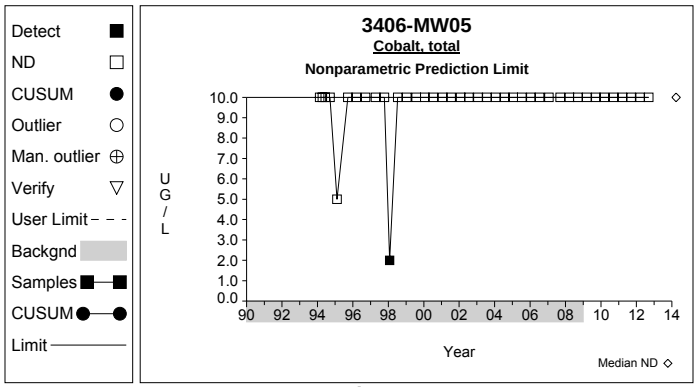
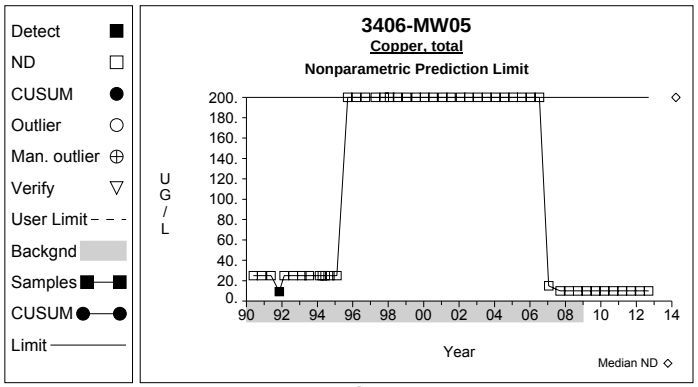
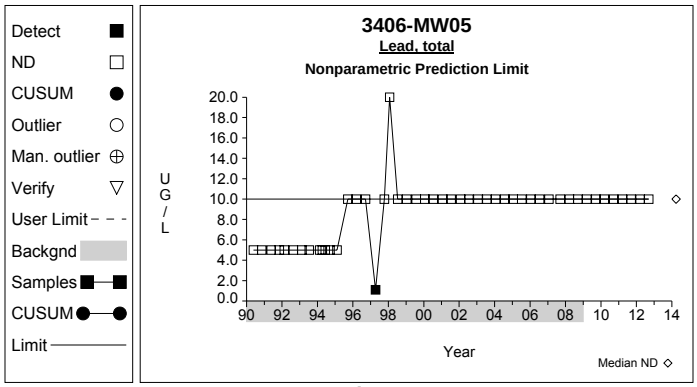


Graph 82

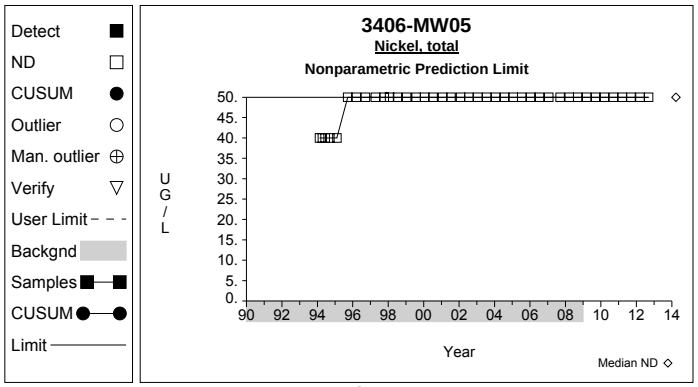


Graph 83

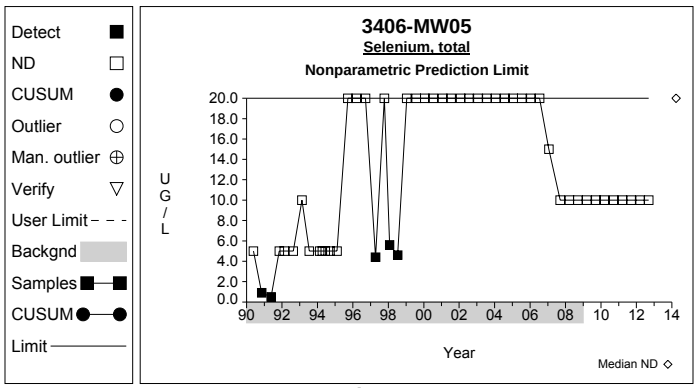
Intra-Well Control Charts



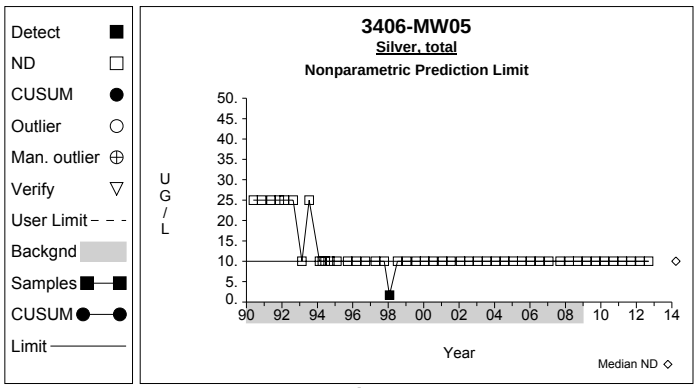
Graph 84



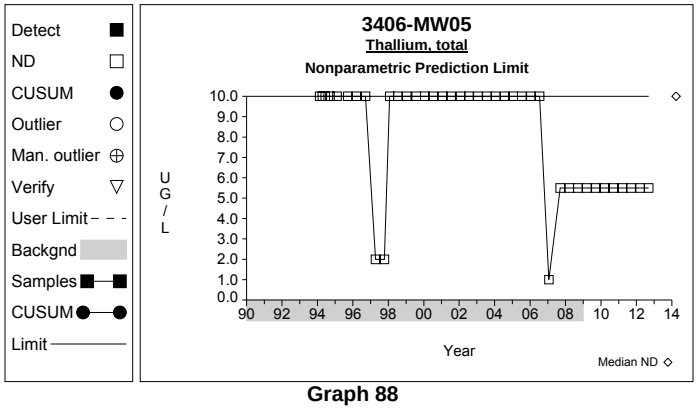
Graph 85



Graph 86



Graph 87



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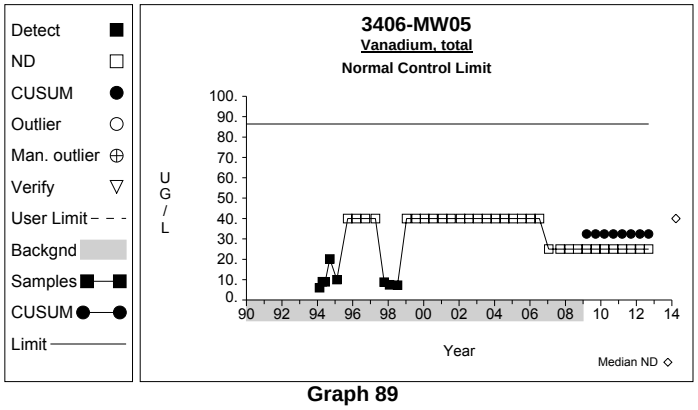
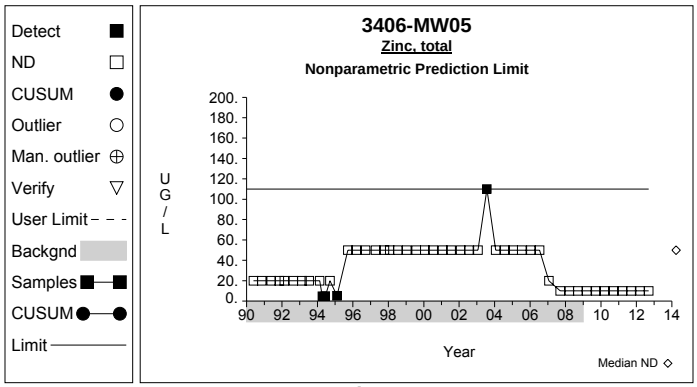
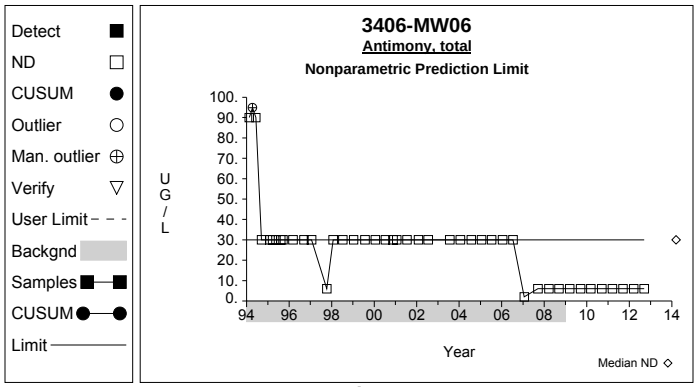


Graph 89

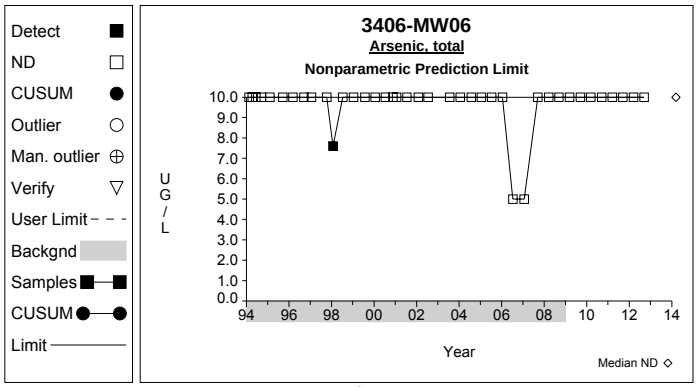


Graph 90

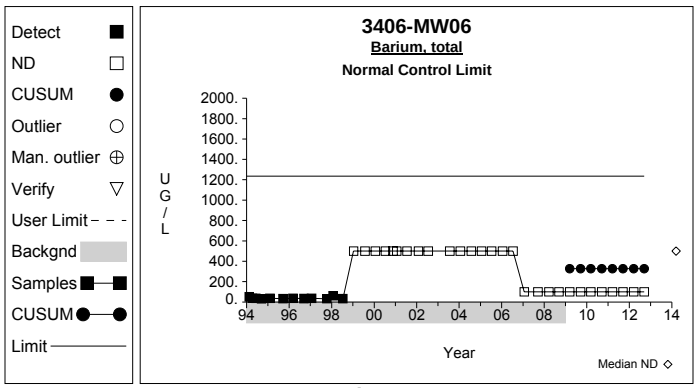
Intra-Well Control Charts



Graph 91



Graph 92



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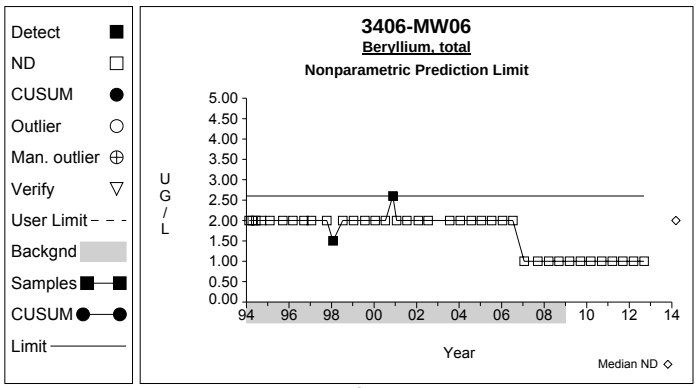
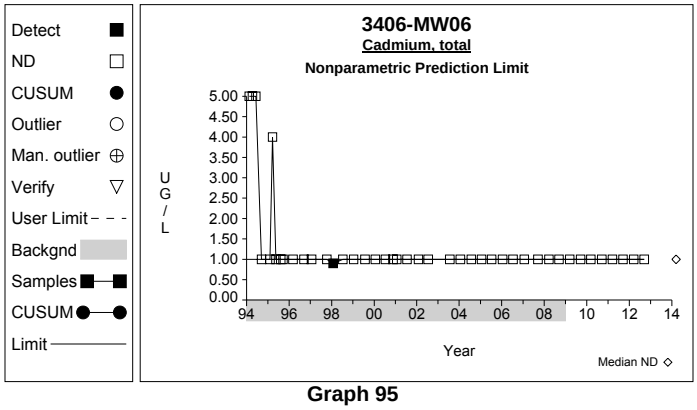
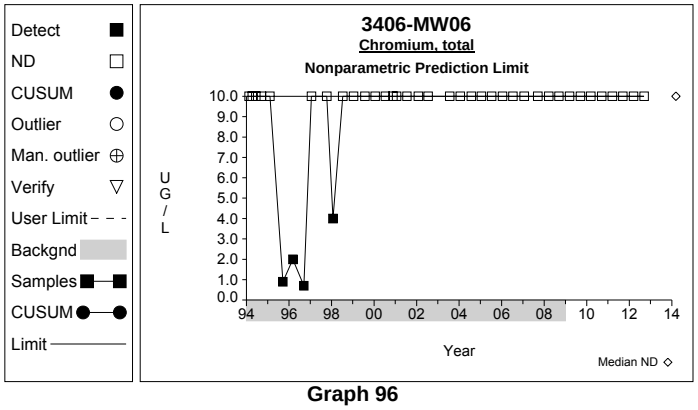


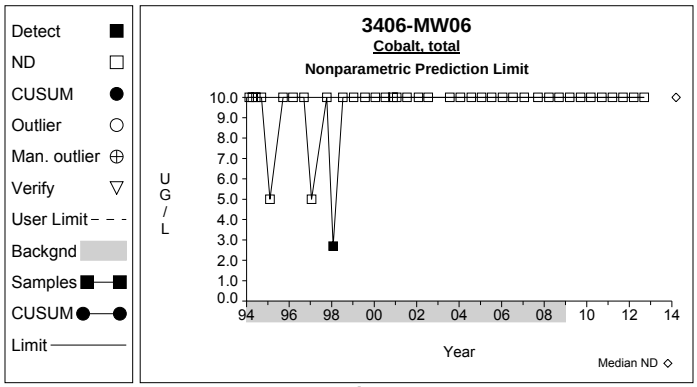
Graph 94



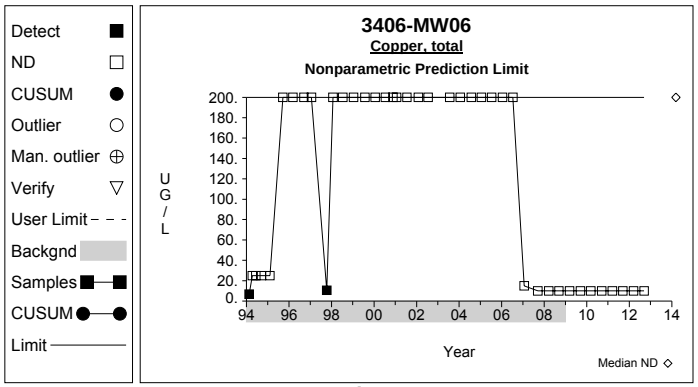
Graph 95



Graph 96

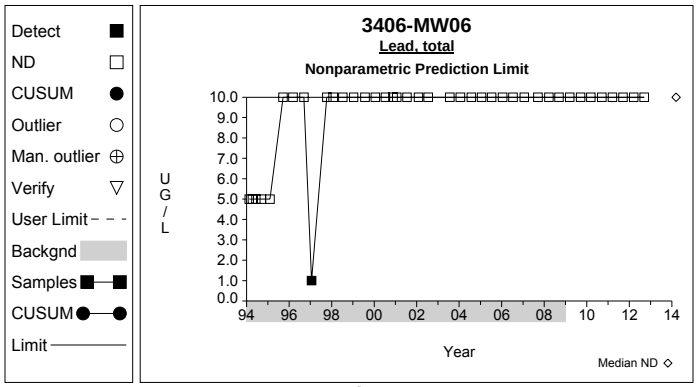


Graph 97

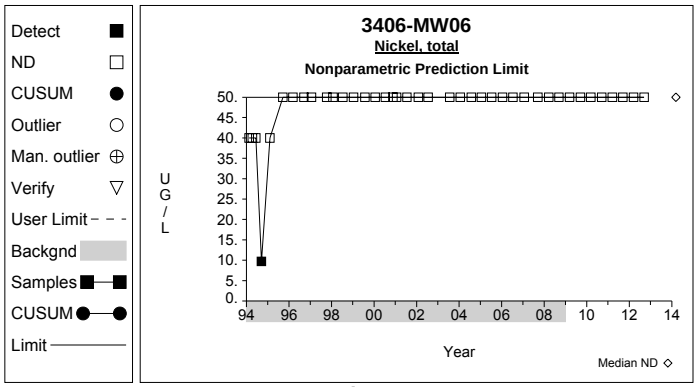


Graph 98

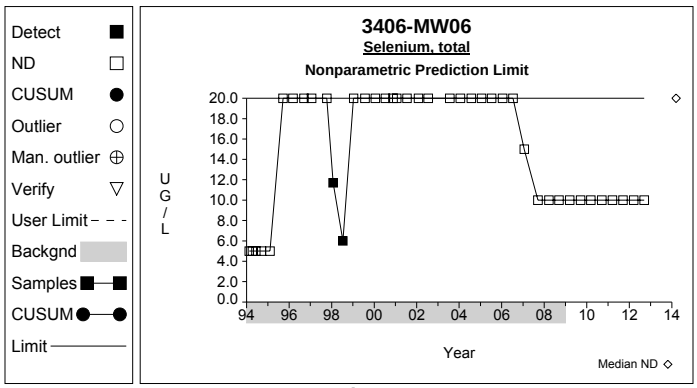
Intra-Well Control Charts



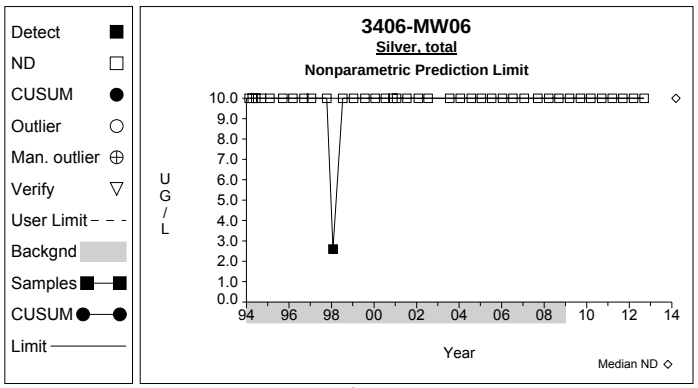
Graph 99



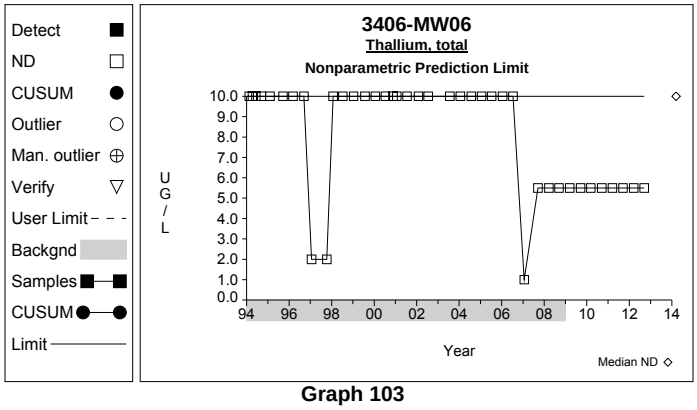
Graph 100



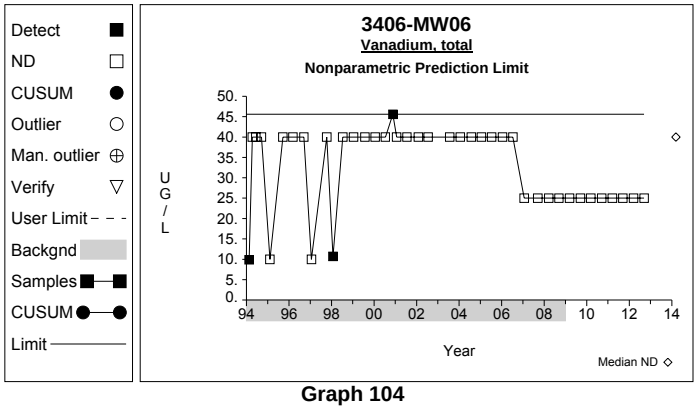
Graph 101



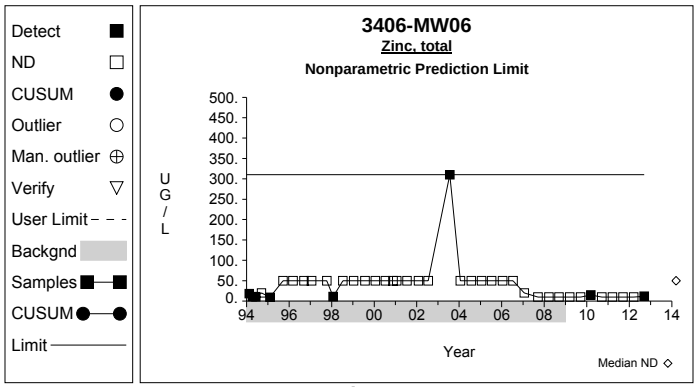
Graph 102



Graph 103

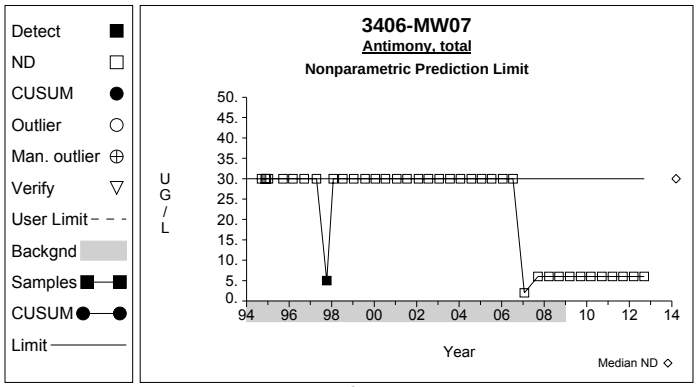


Graph 104

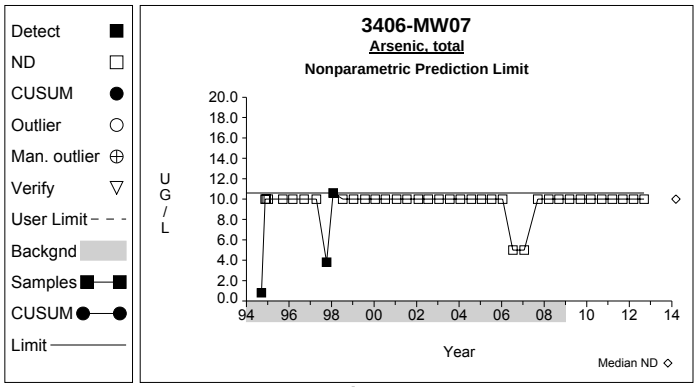


Graph 105

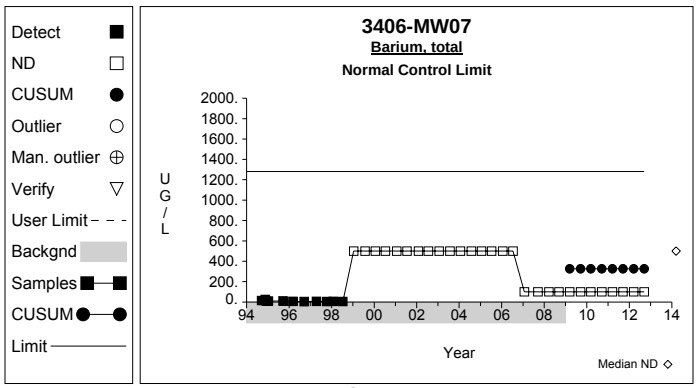
Intra-Well Control Charts



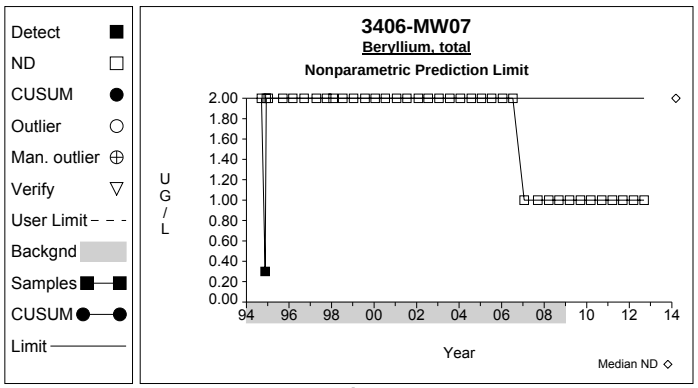
Graph 106



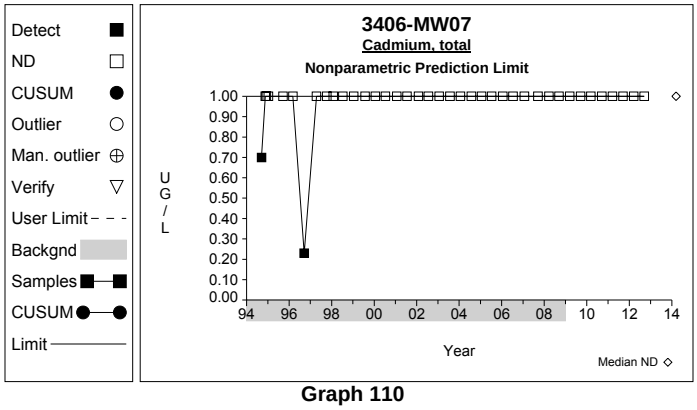
Graph 107



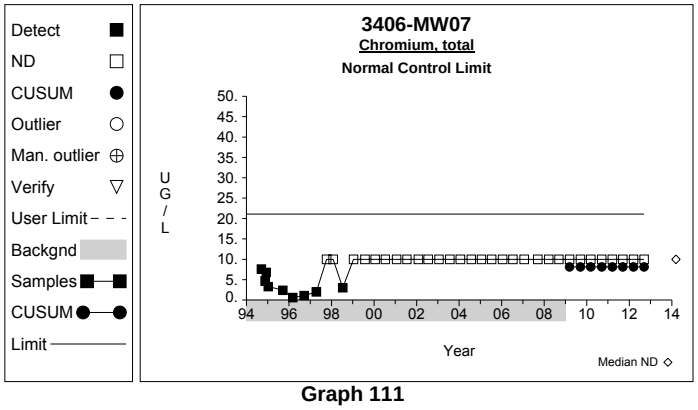
Graph 108



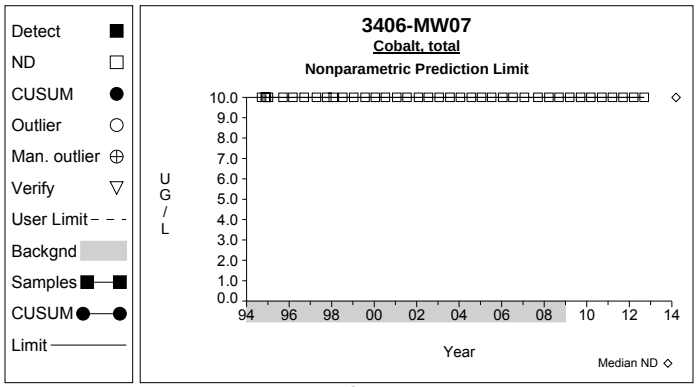
Graph 109



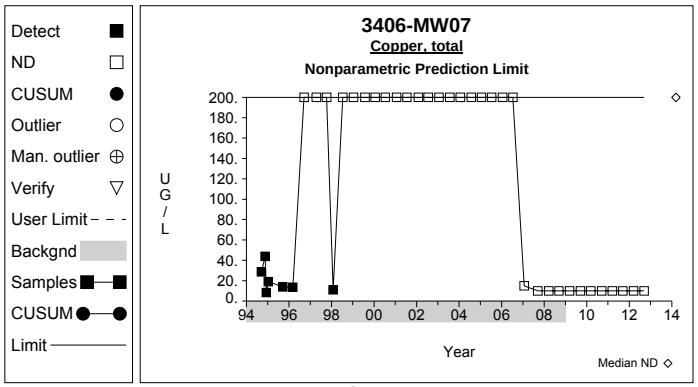
Graph 110



Graph 111

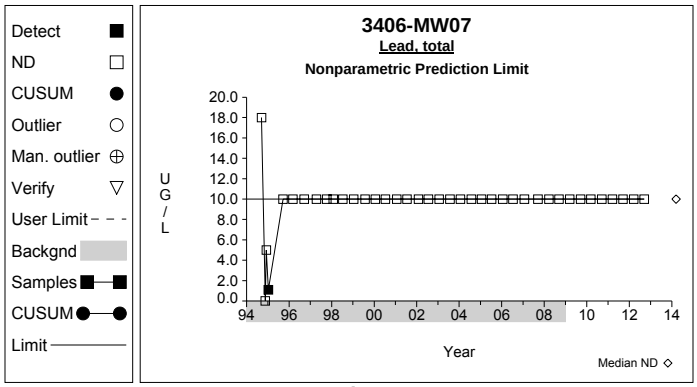


Graph 112

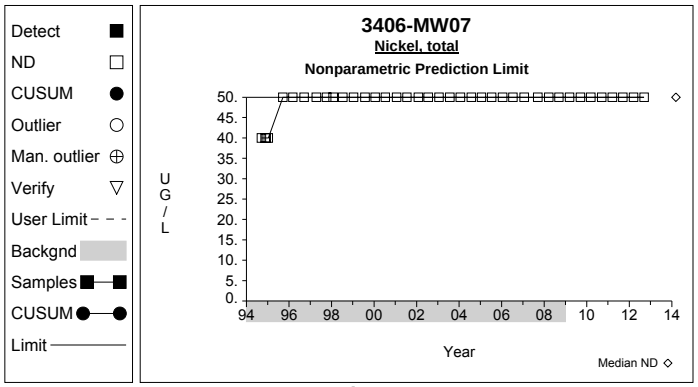


Graph 113

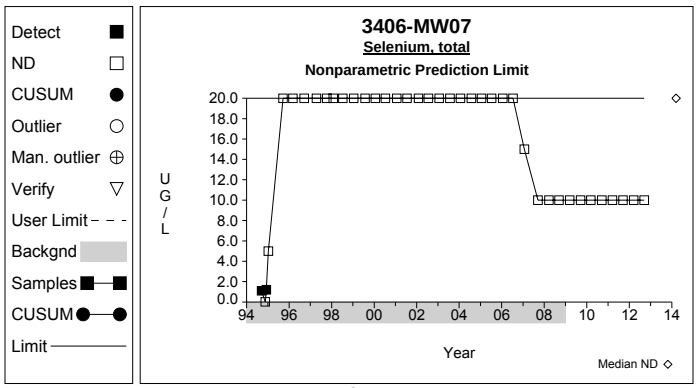
Intra-Well Control Charts



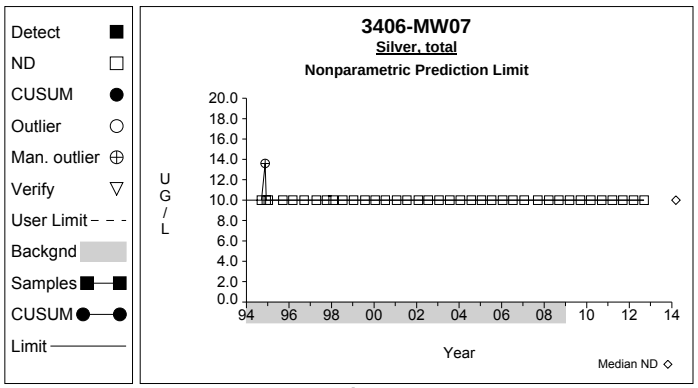
Graph 114



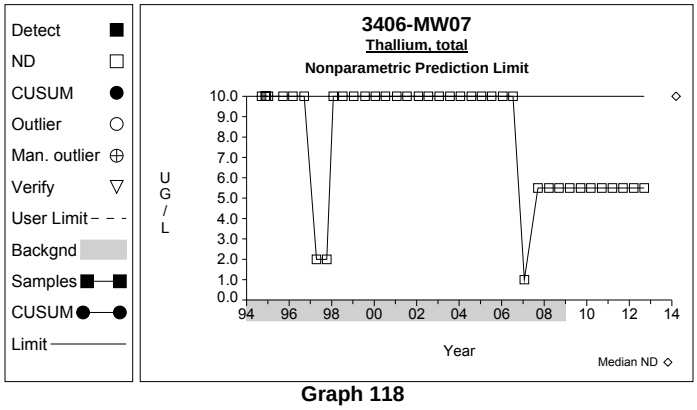
Graph 115



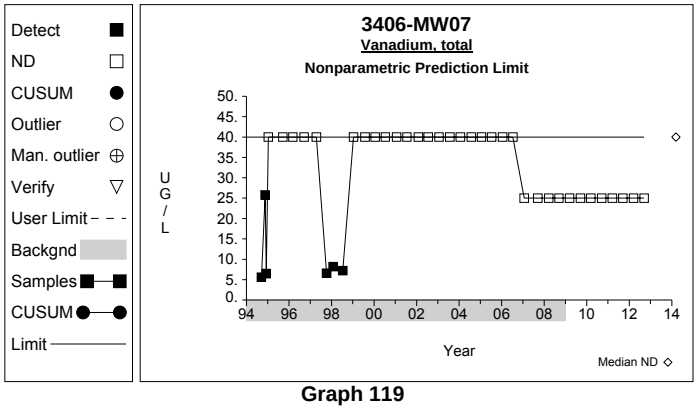
Graph 116



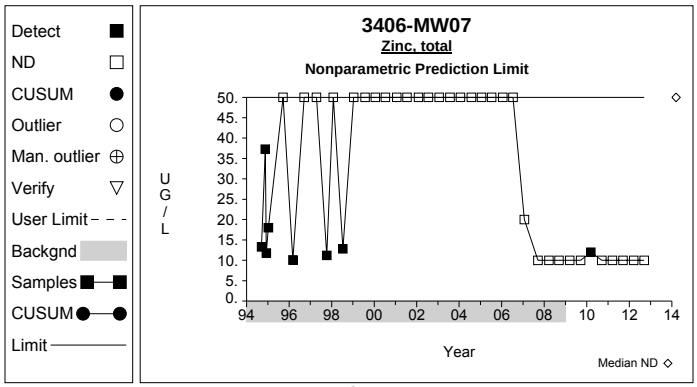
Graph 117



Graph 118

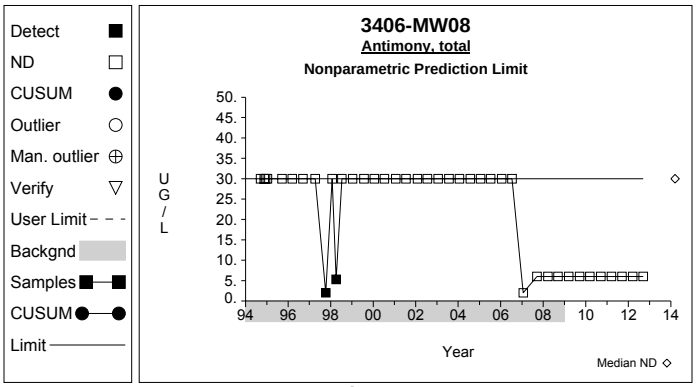


Graph 119

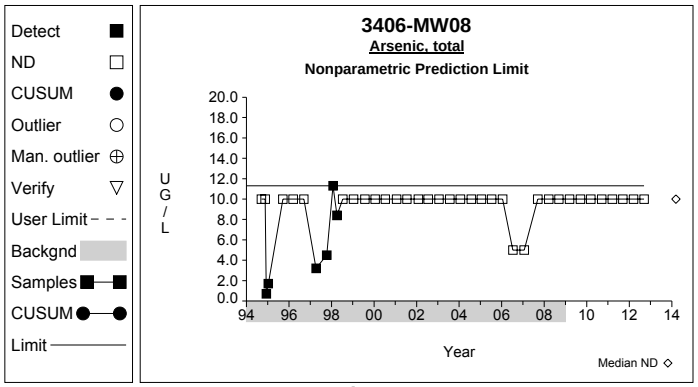


Graph 120

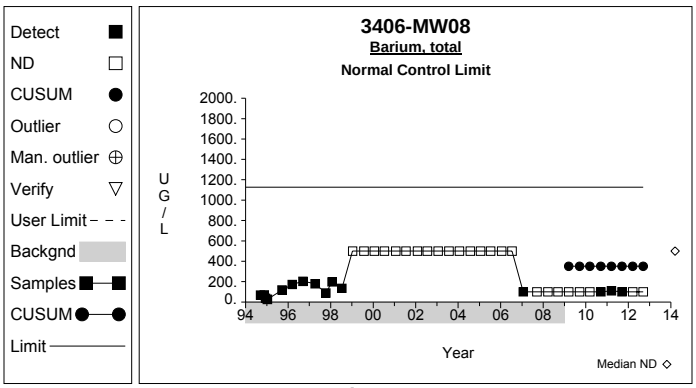
Intra-Well Control Charts



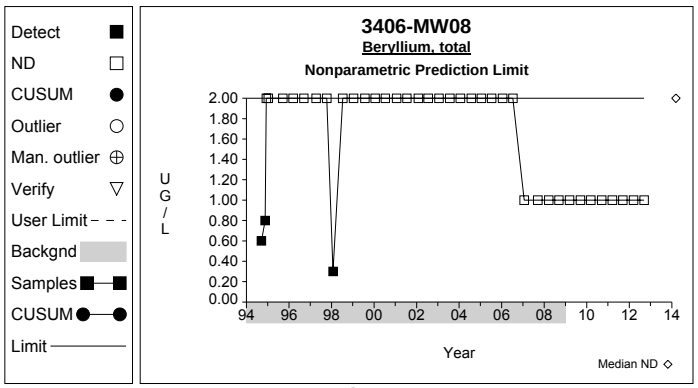
Graph 121



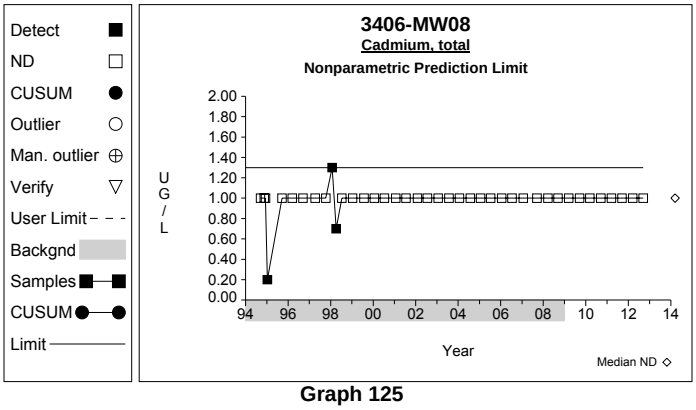
Graph 122



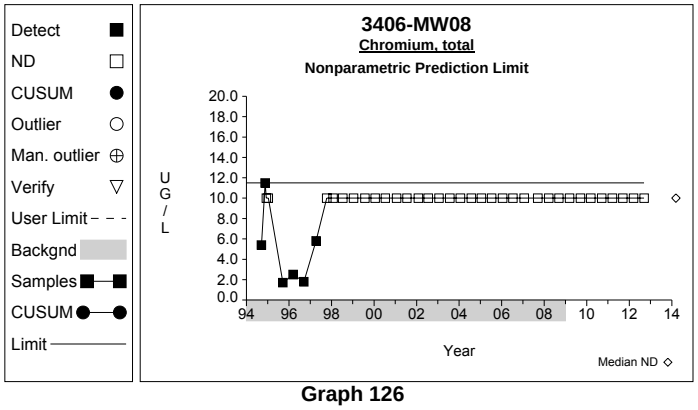
Graph 123



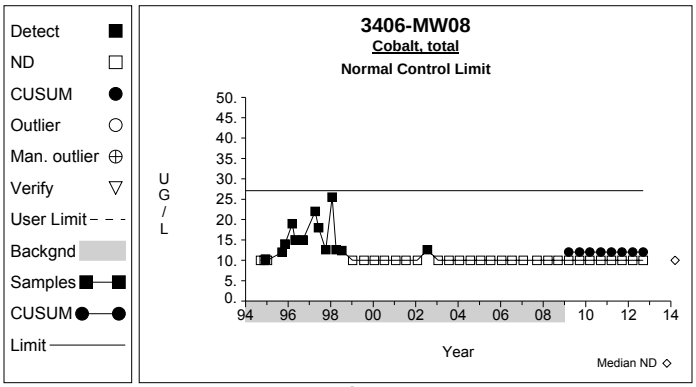
Graph 124



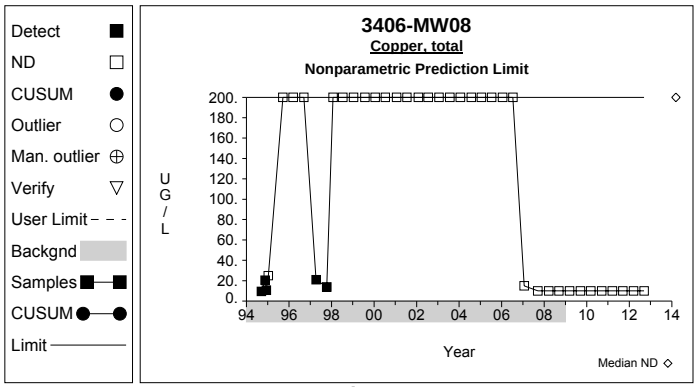
Graph 125



Graph 126

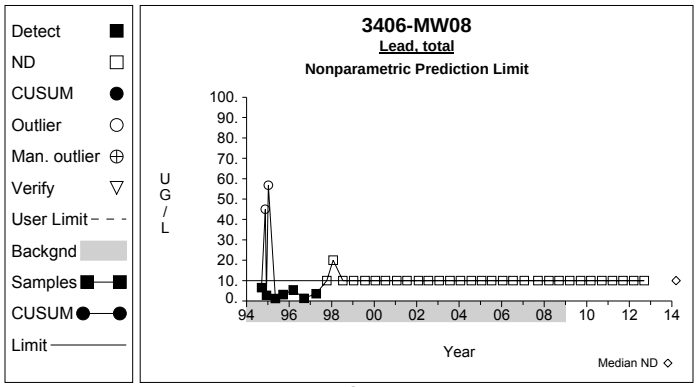


Graph 127

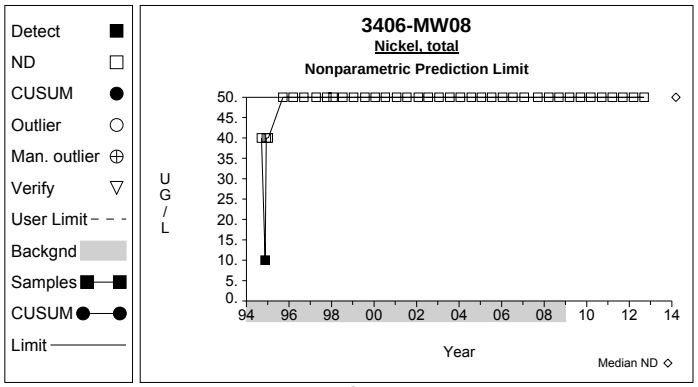


Graph 128

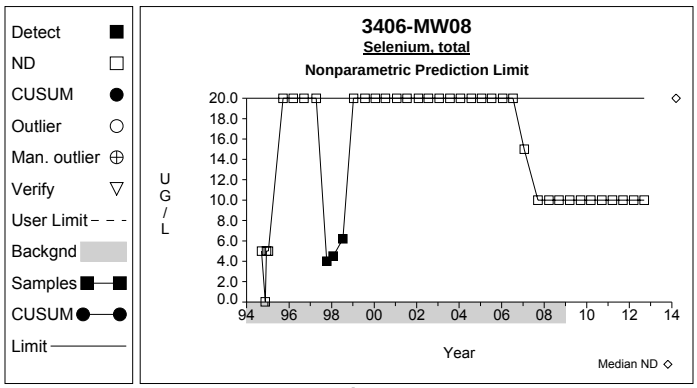
Intra-Well Control Charts



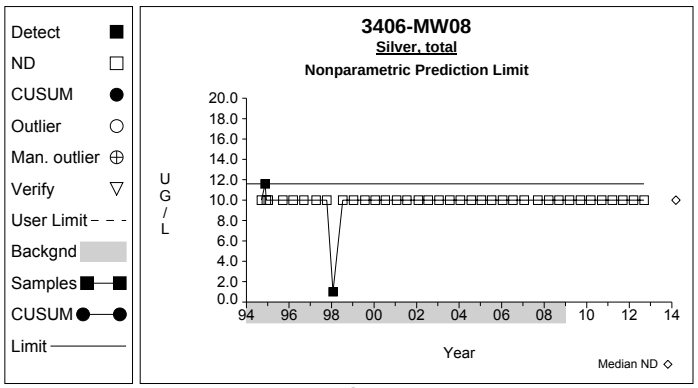
Graph 129



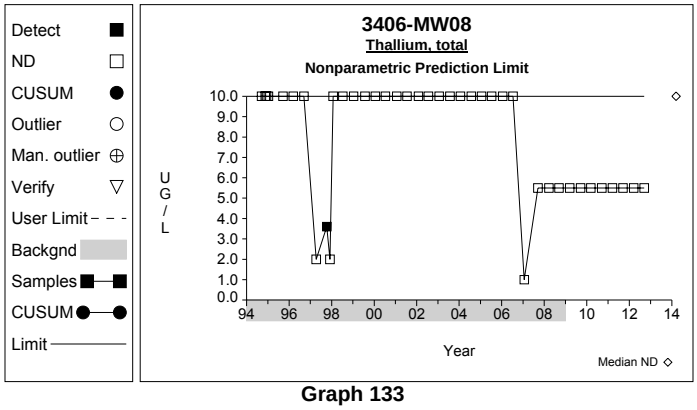
Graph 130



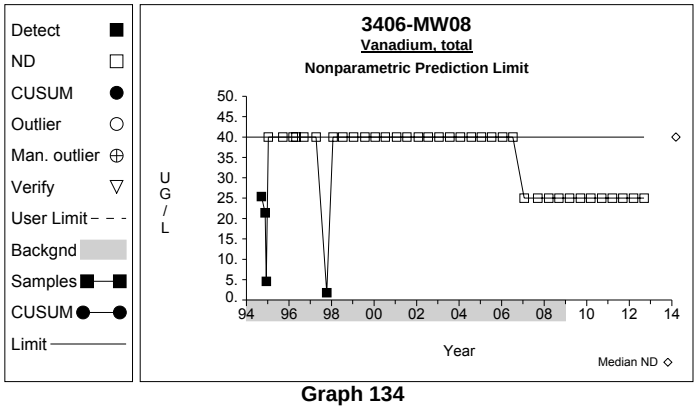
Graph 131



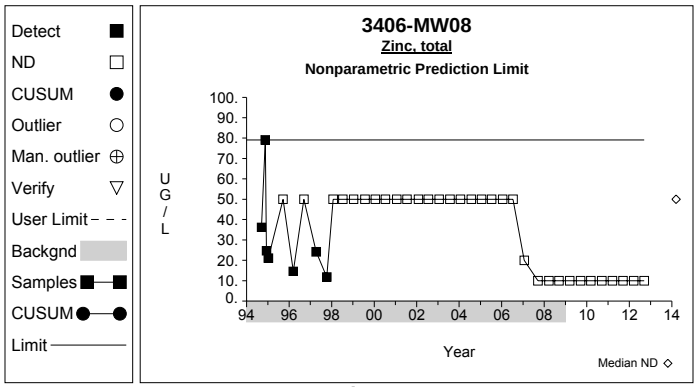
Graph 132



Graph 133

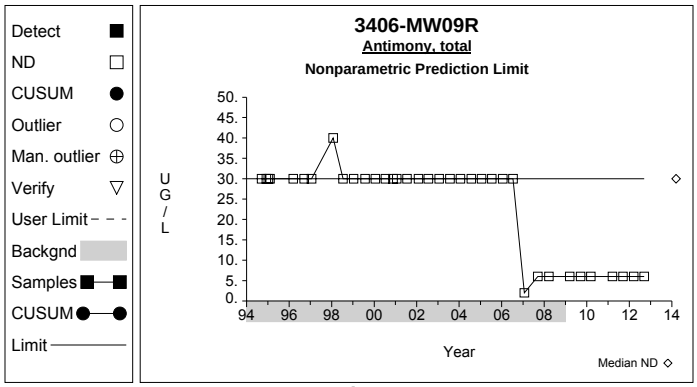


Graph 134

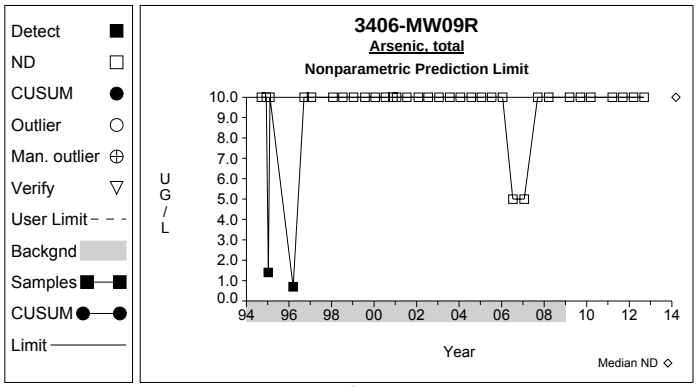


Graph 135

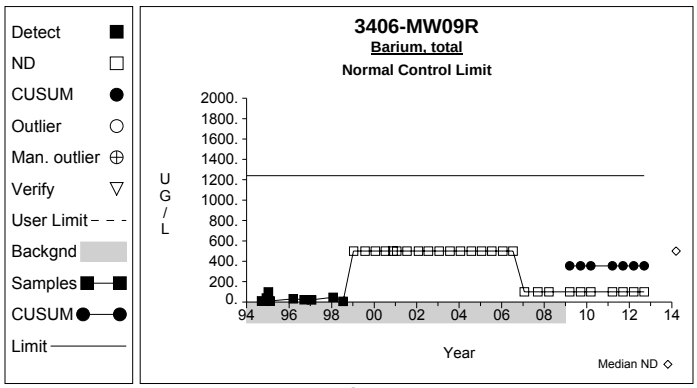
Intra-Well Control Charts



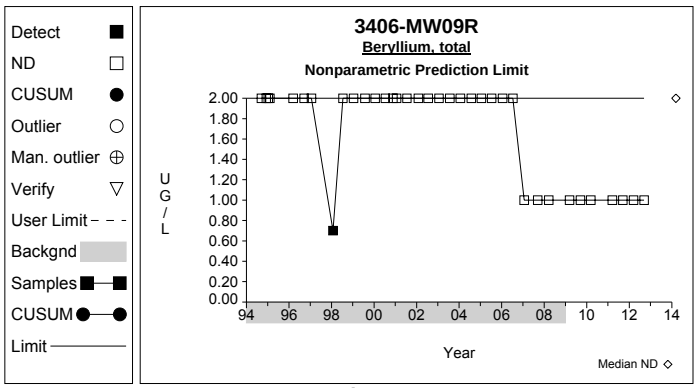
Graph 136



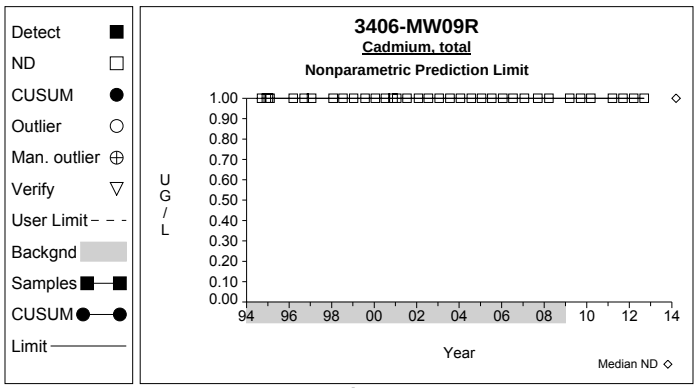
Graph 137



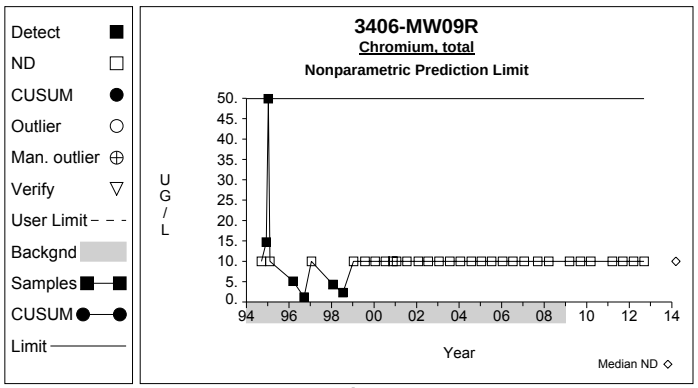
Graph 138



Graph 139



Graph 140



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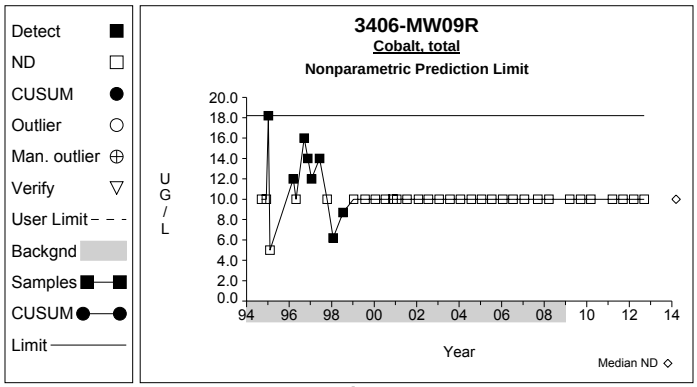
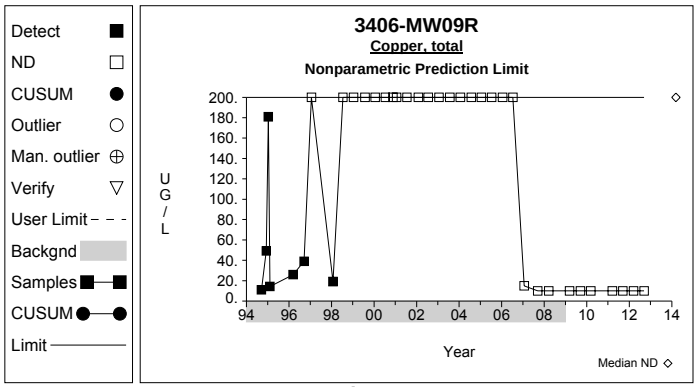
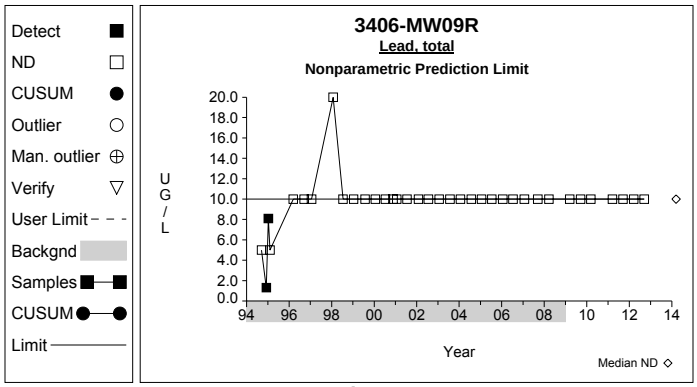


Graph 142

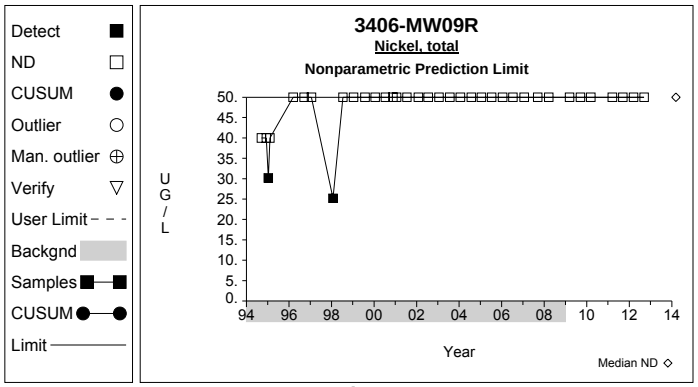


Graph 143

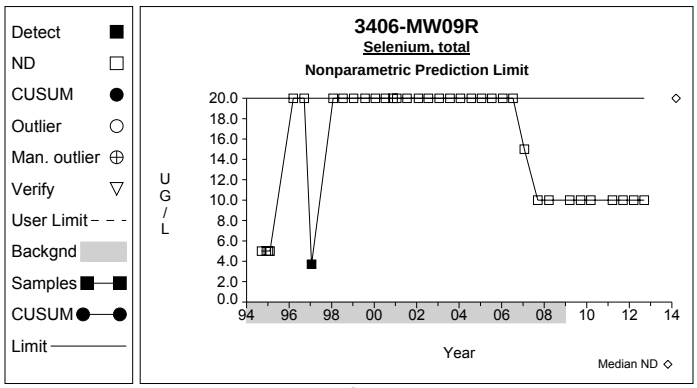
Intra-Well Control Charts



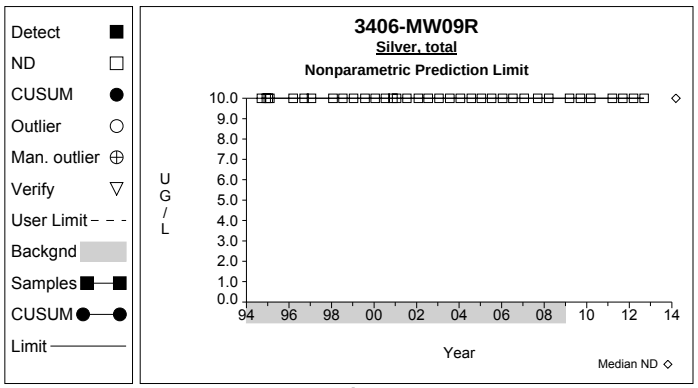
Graph 144



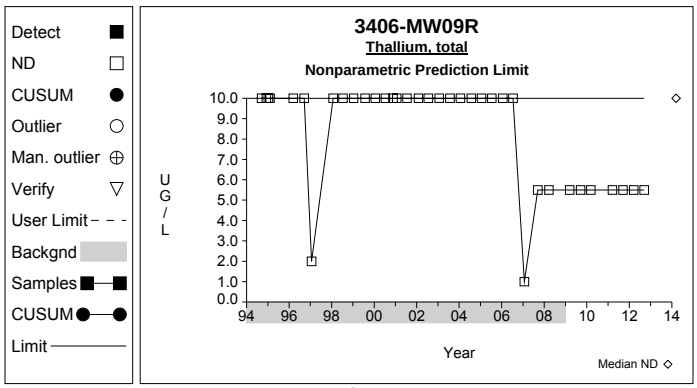
Graph 145



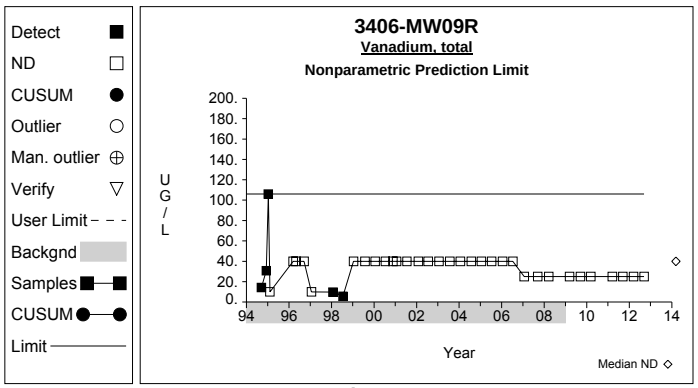
Graph 146



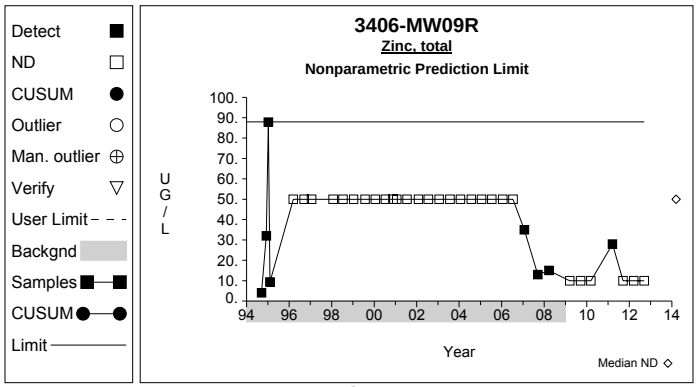
Graph 147



Graph 148

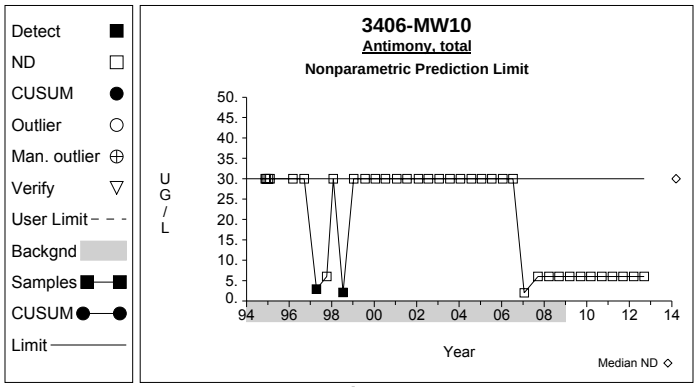


Graph 149

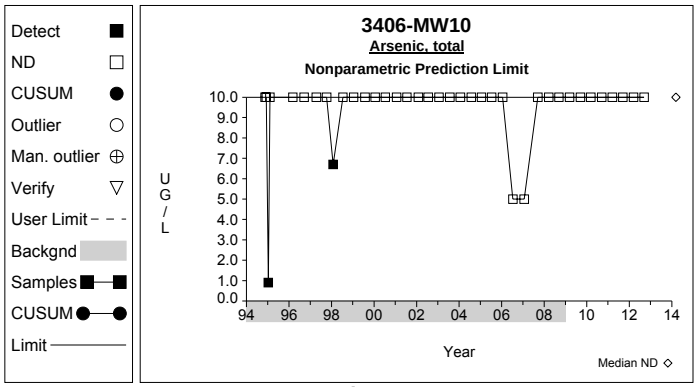


Graph 150

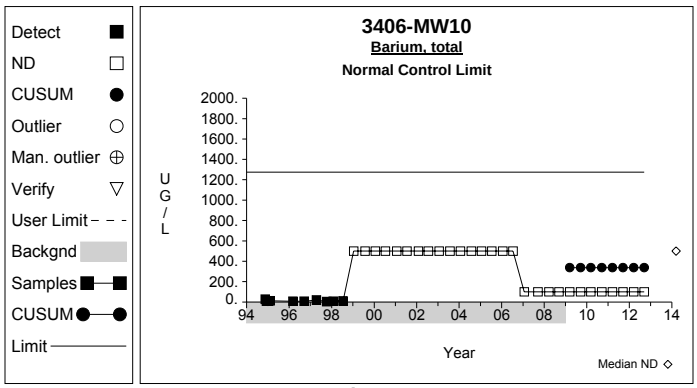
Intra-Well Control Charts



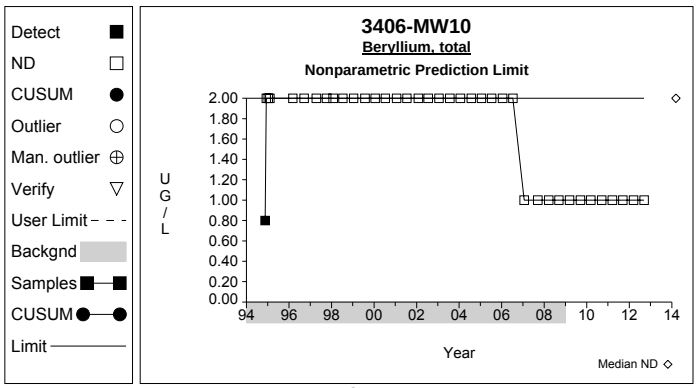
Graph 151



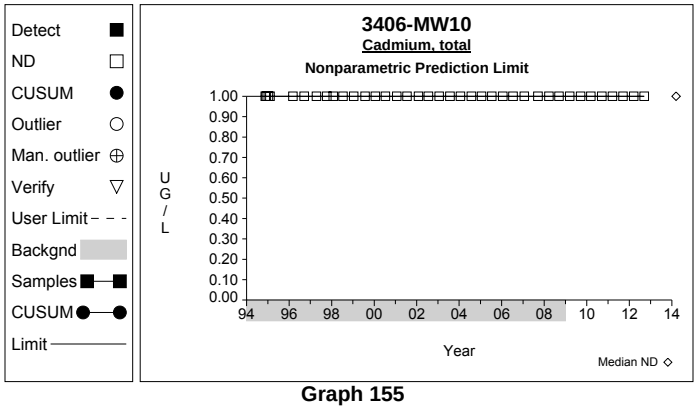
Graph 152



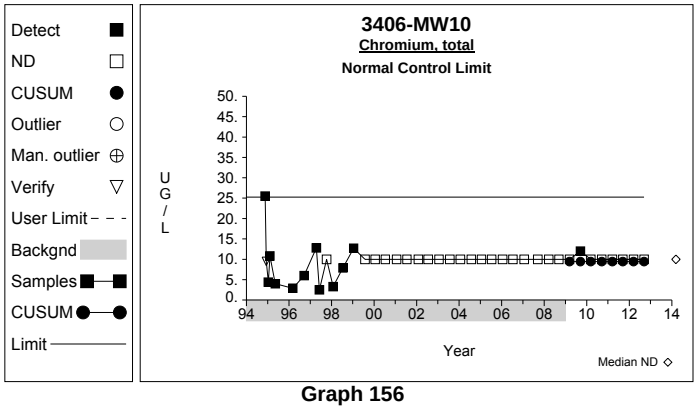
Graph 153



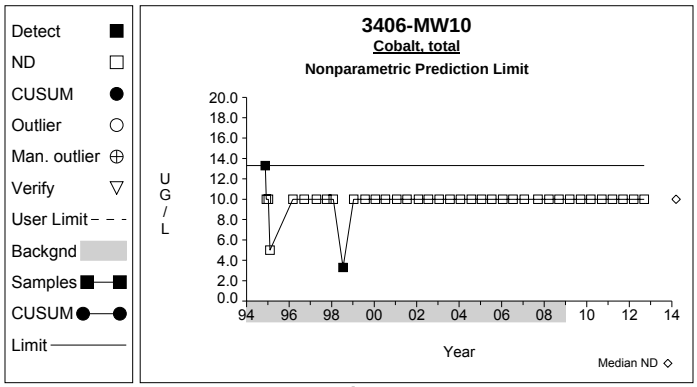
Graph 154



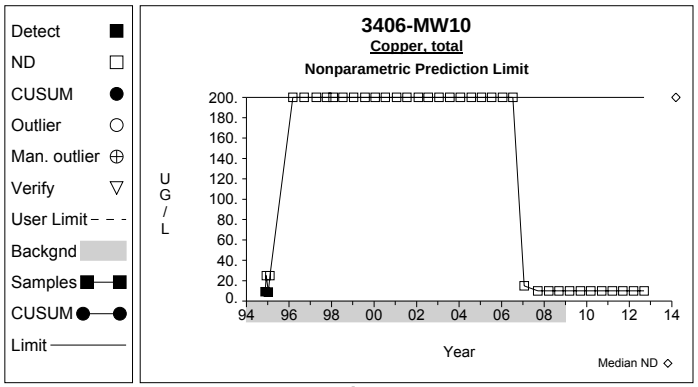
Graph 155



Graph 156

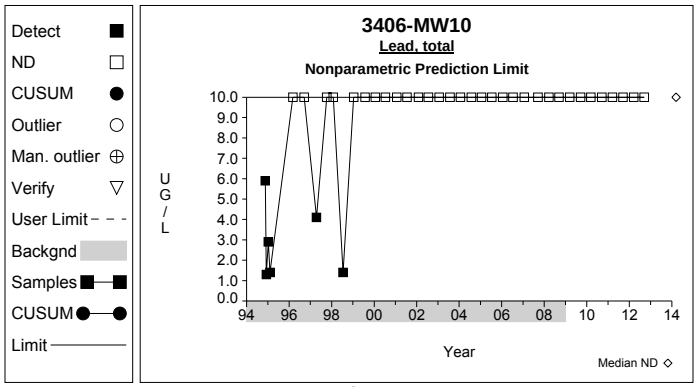


Graph 157

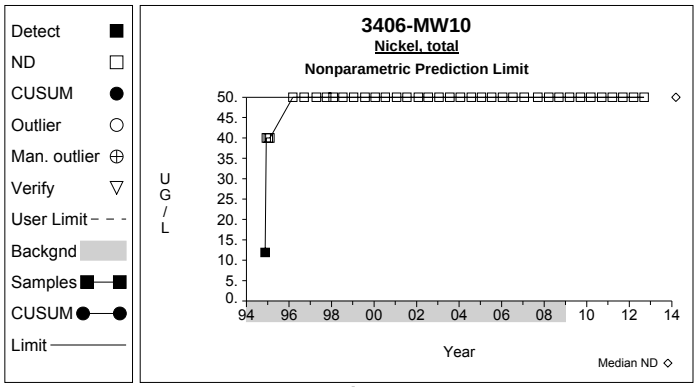


Graph 158

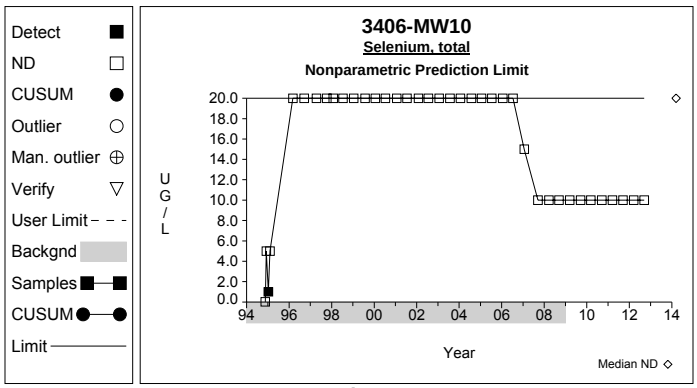
Intra-Well Control Charts



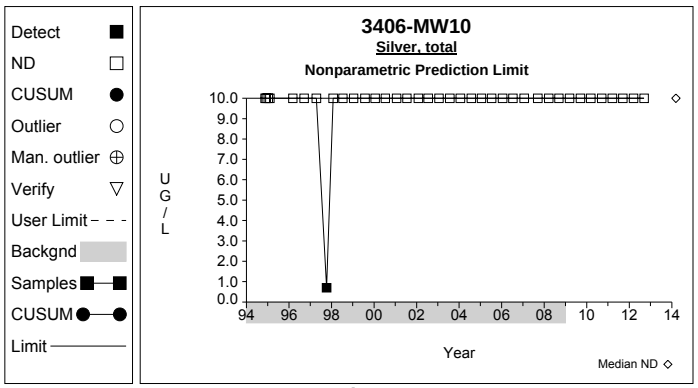
Graph 159



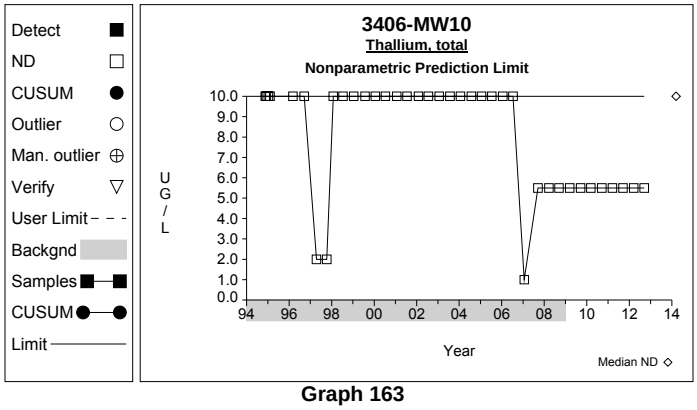
Graph 160



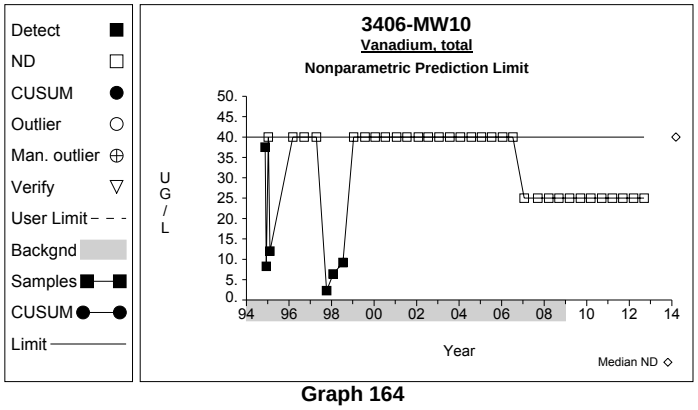
Graph 161



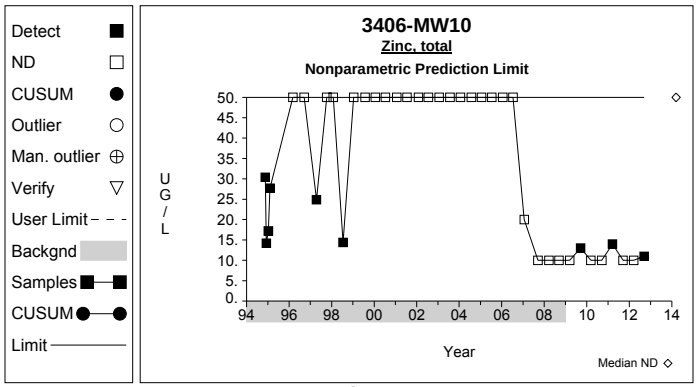
Graph 162



Graph 163

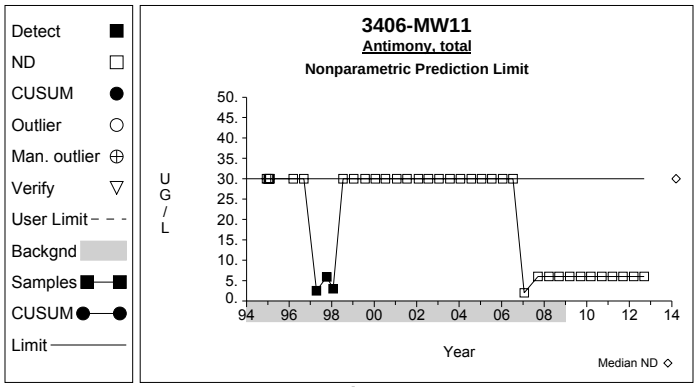


Graph 164

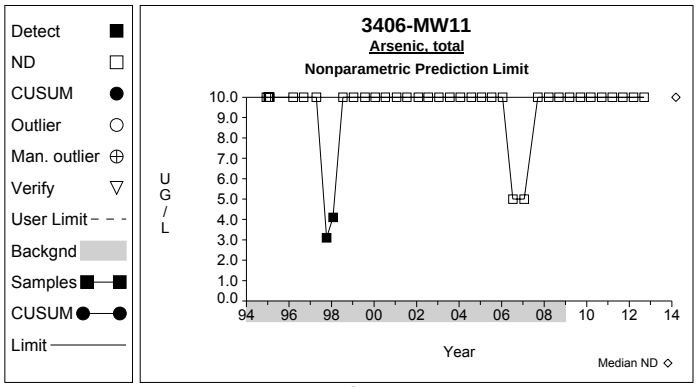


Graph 165

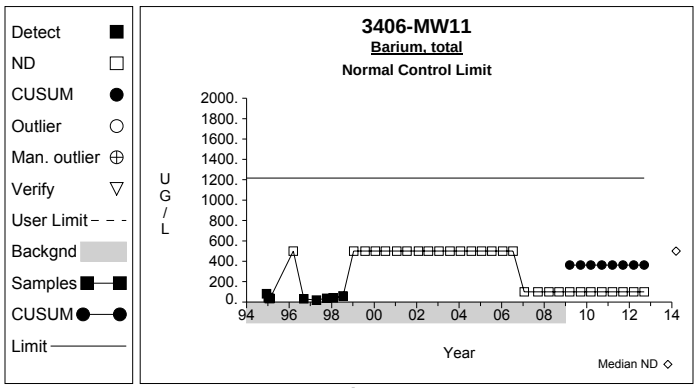
Intra-Well Control Charts



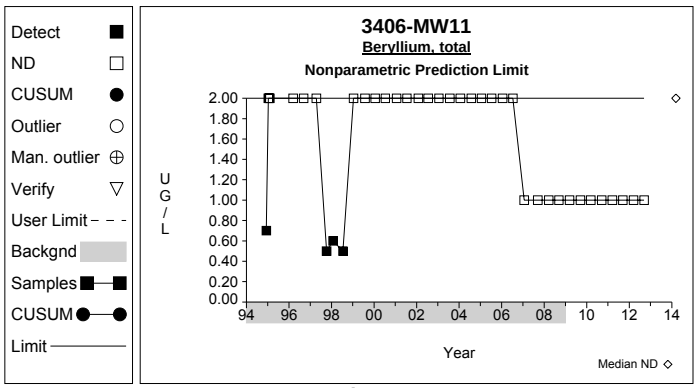
Graph 166



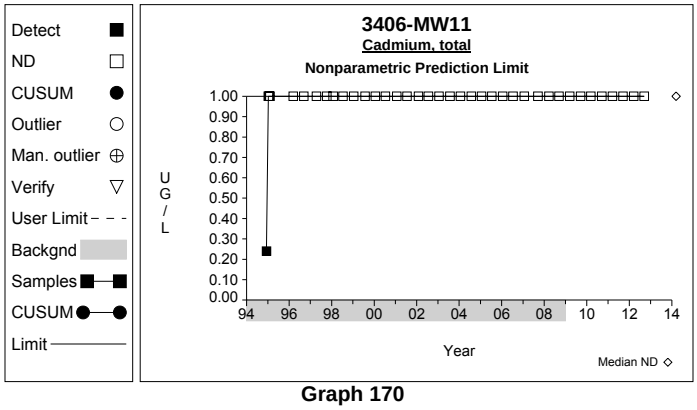
Graph 167



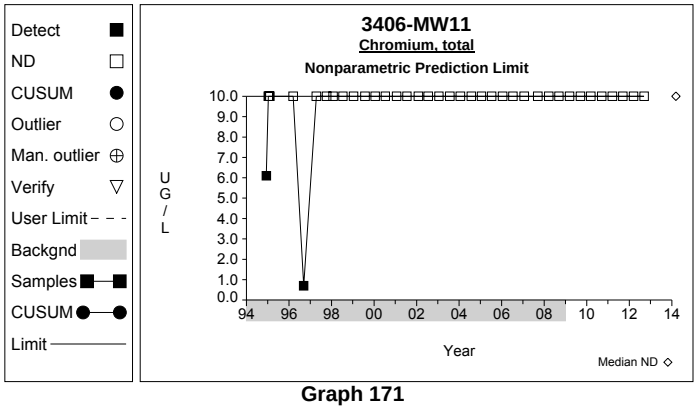
Graph 168



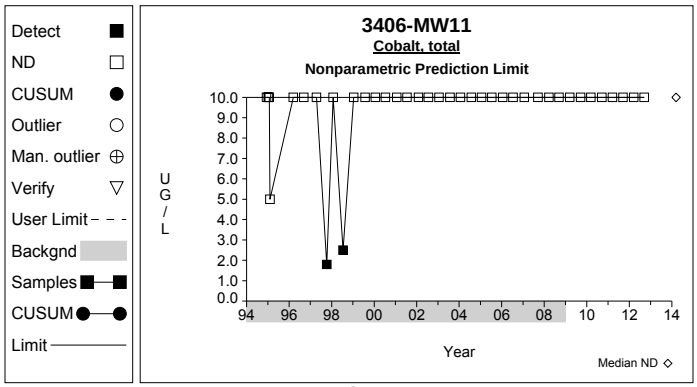
Graph 169



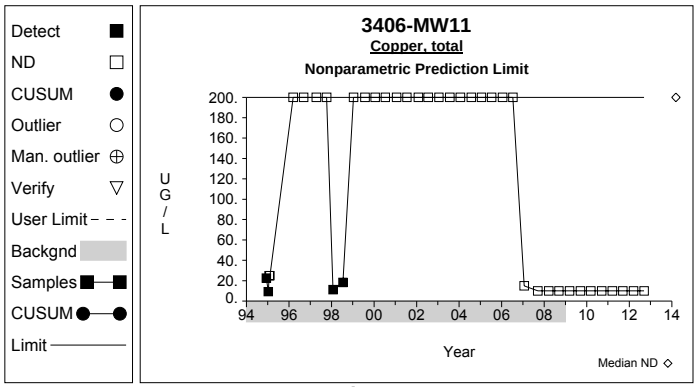
Graph 170



Graph 171

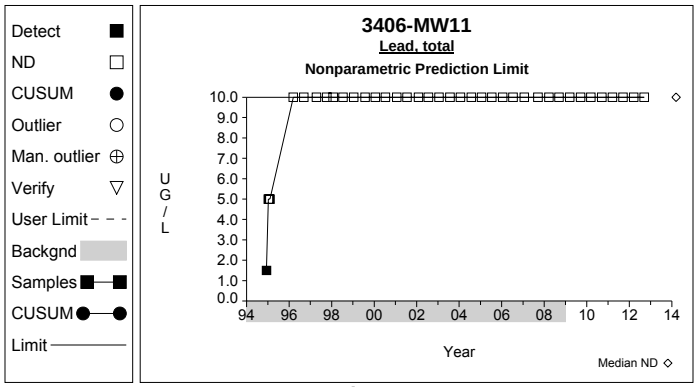


Graph 172

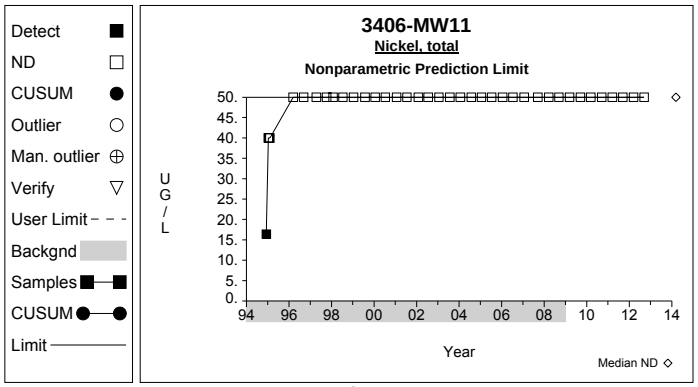


Graph 173

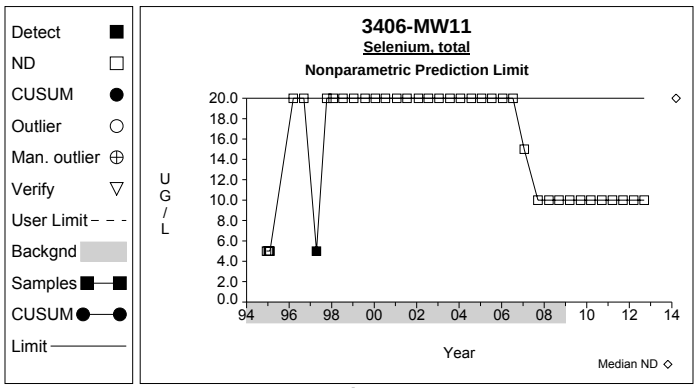
Intra-Well Control Charts



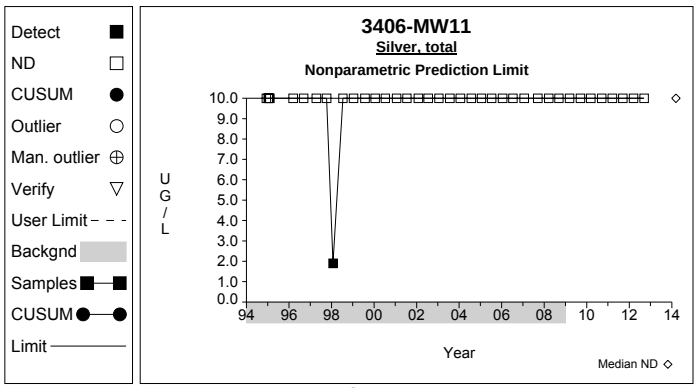
Graph 174



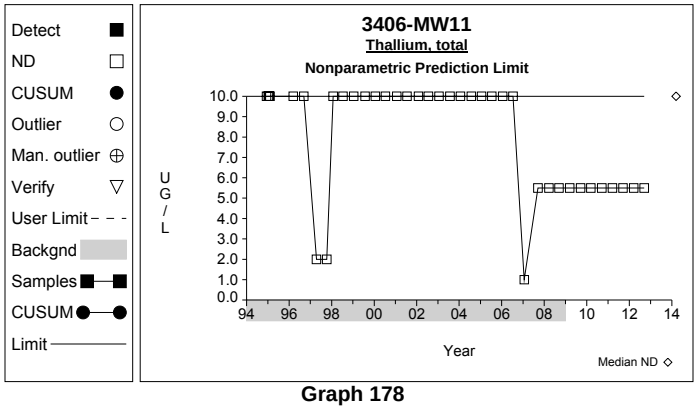
Graph 175



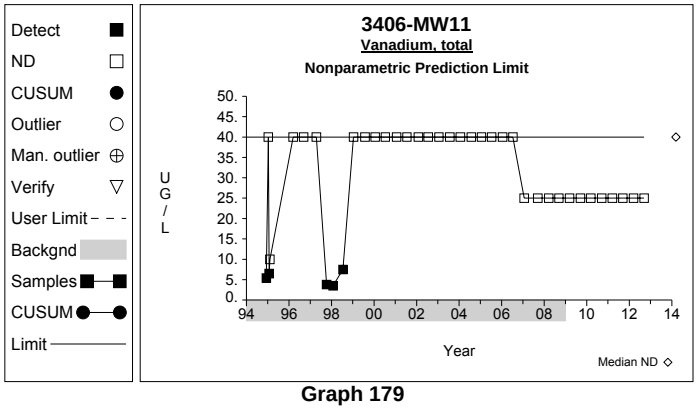
Graph 176



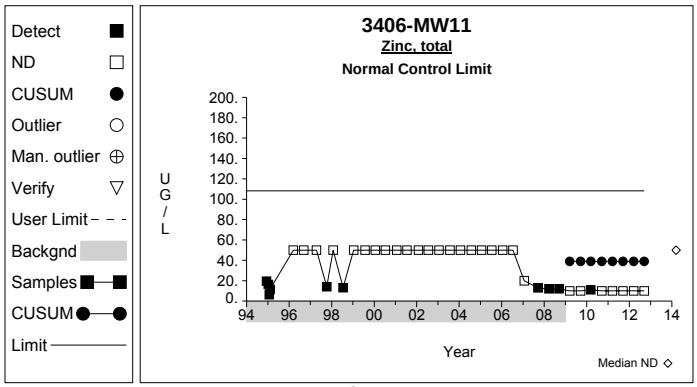
Graph 177



Graph 178

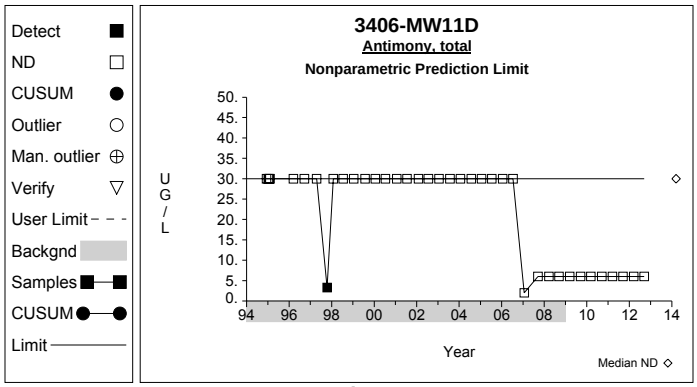


Graph 179

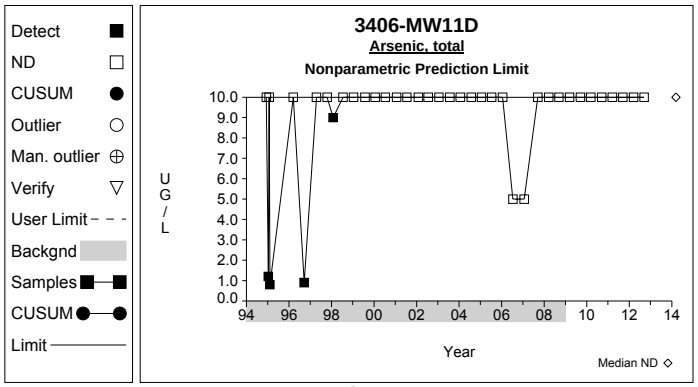


Graph 180

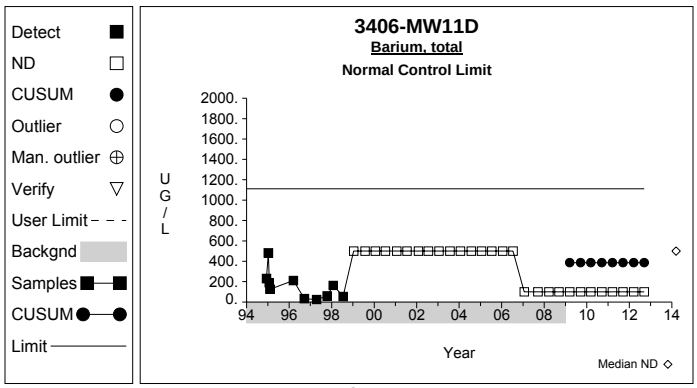
Intra-Well Control Charts



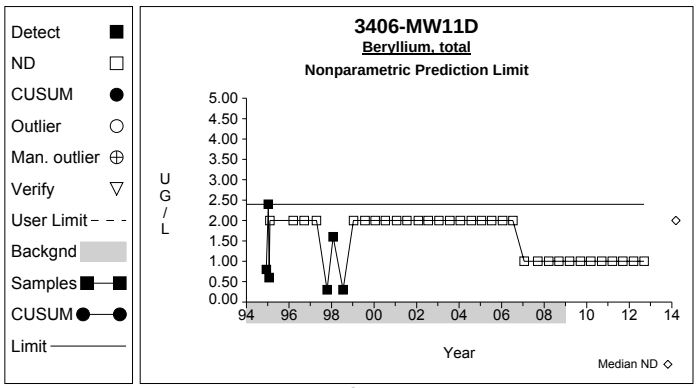
Graph 181



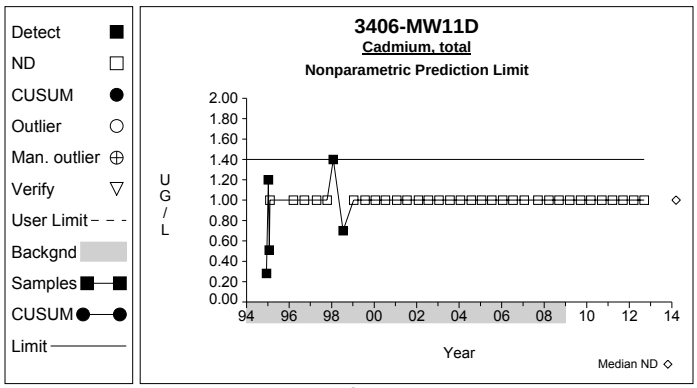
Graph 182



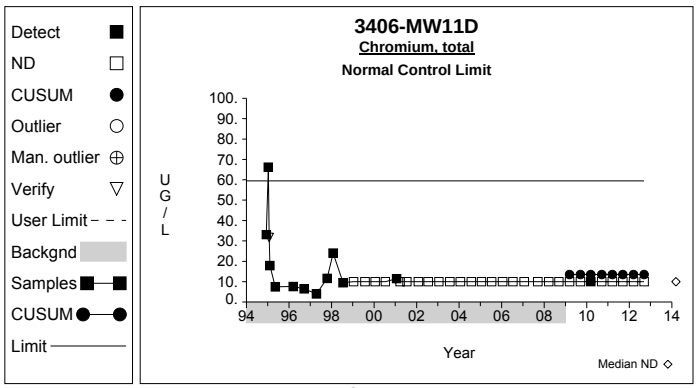
Graph 183



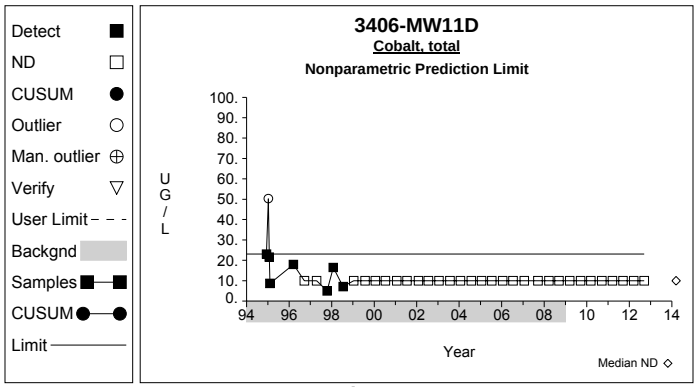
Graph 184



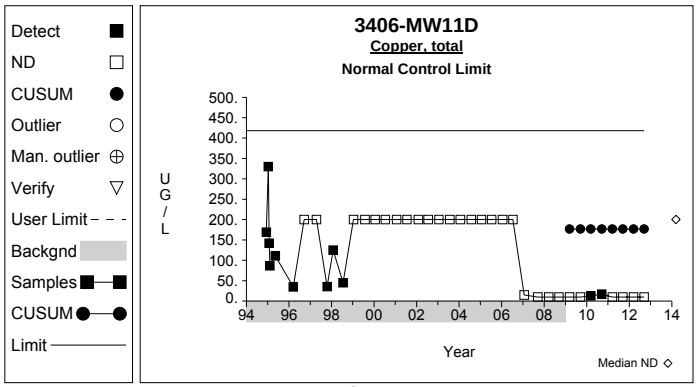
Graph 185



Graph 186

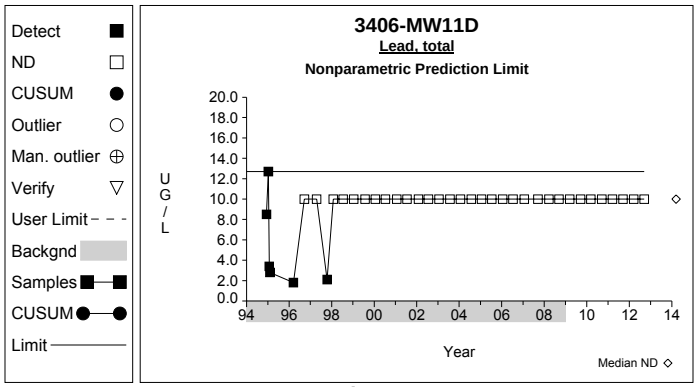


Graph 187

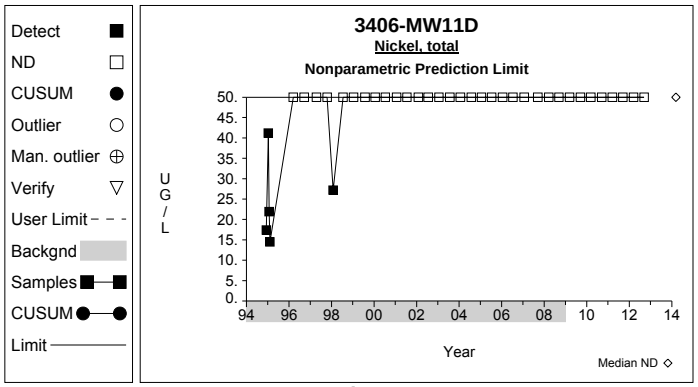


Graph 188

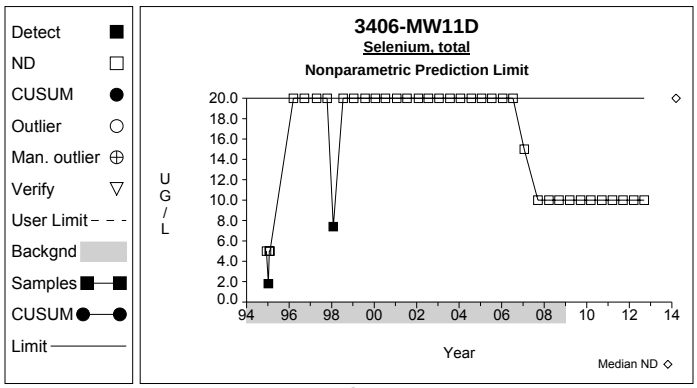
Intra-Well Control Charts



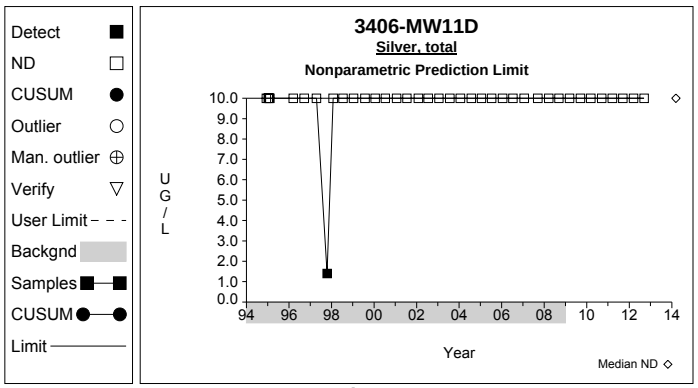
Graph 189



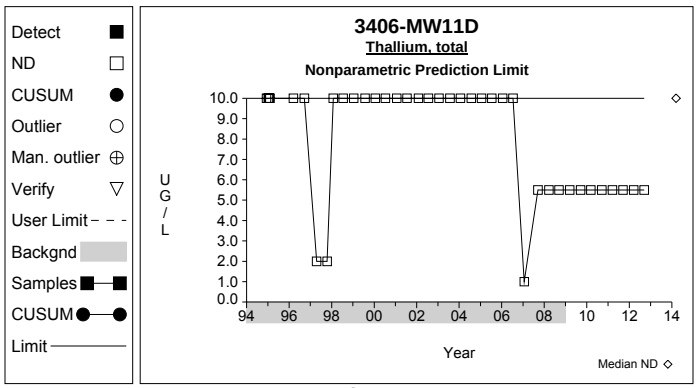
Graph 190



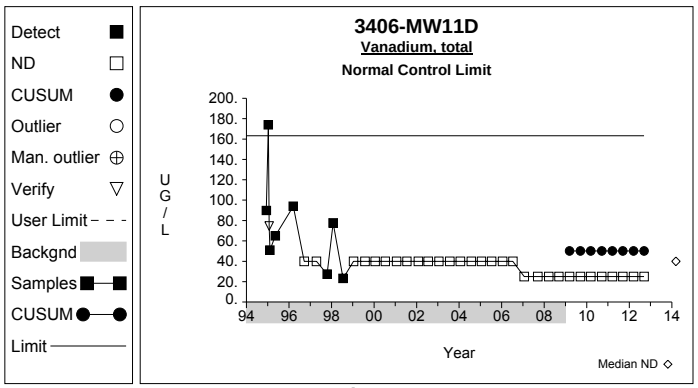
Graph 191



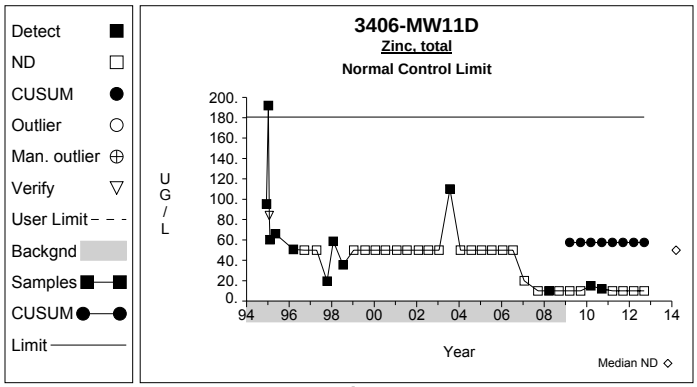
Graph 192



Graph 193

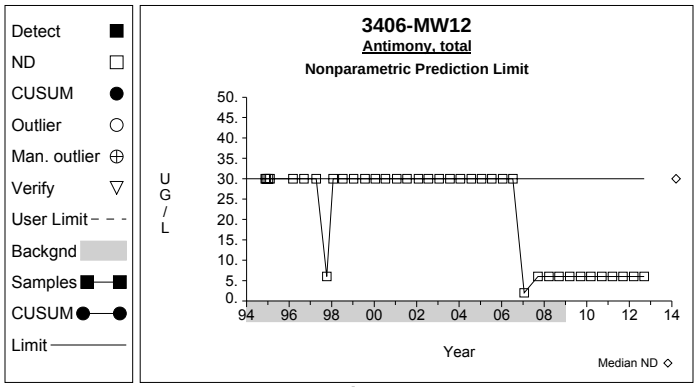


Graph 194

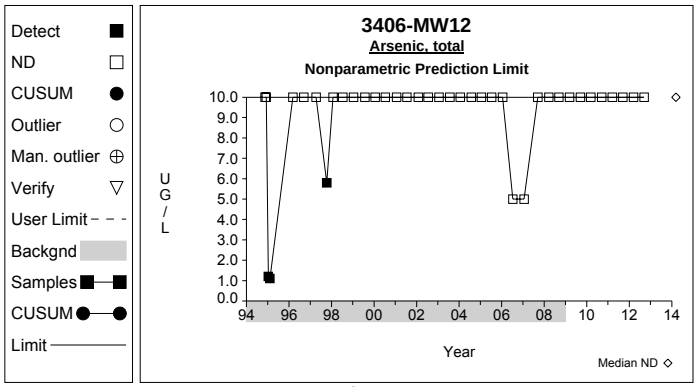


Graph 195

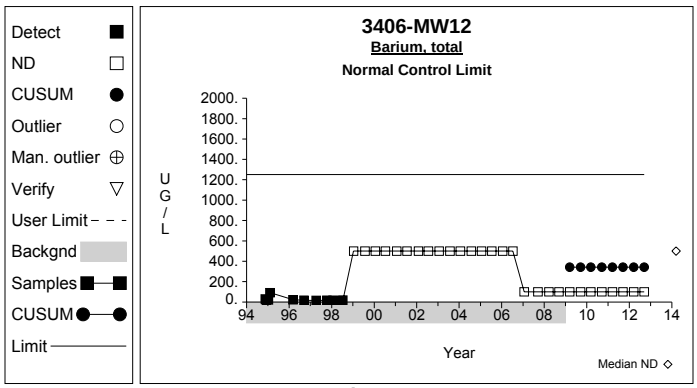
Intra-Well Control Charts



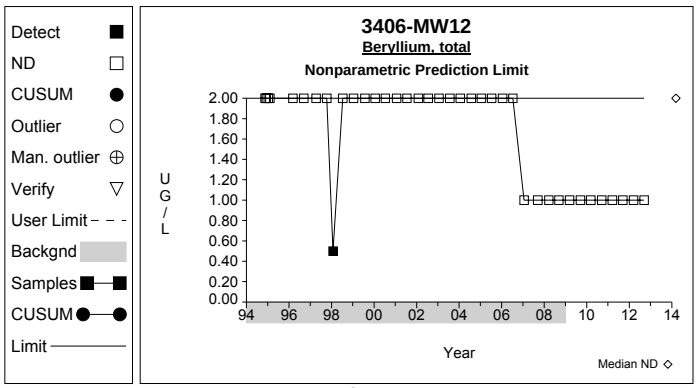
Graph 196



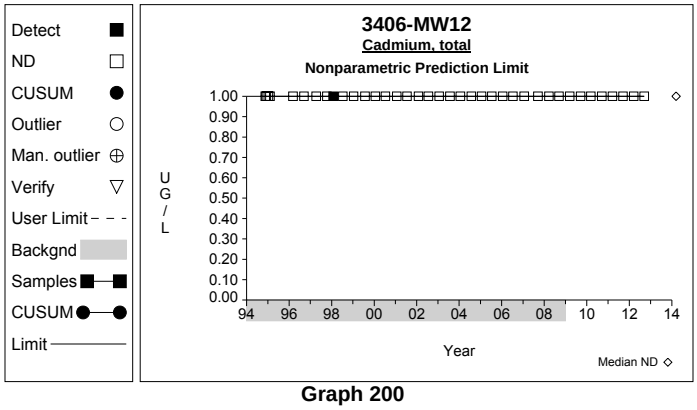
Graph 197



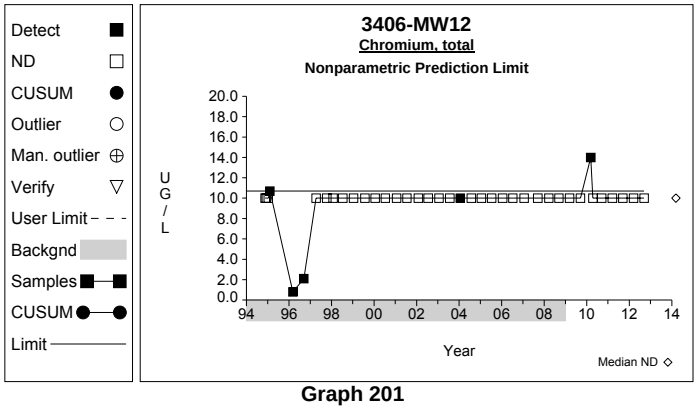
Graph 198



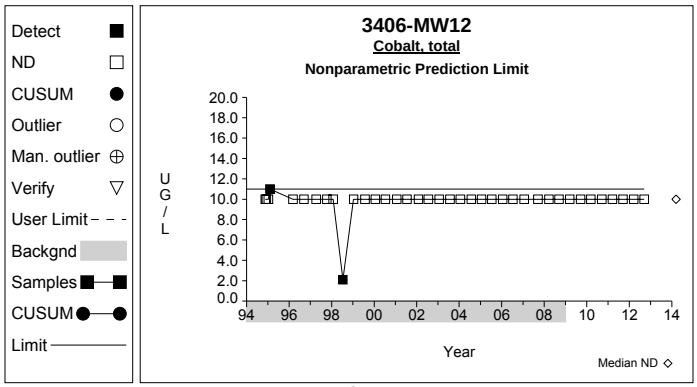
Graph 199



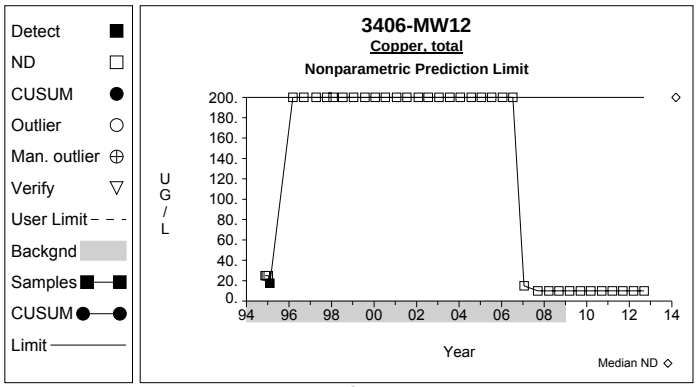
Graph 200



Graph 201

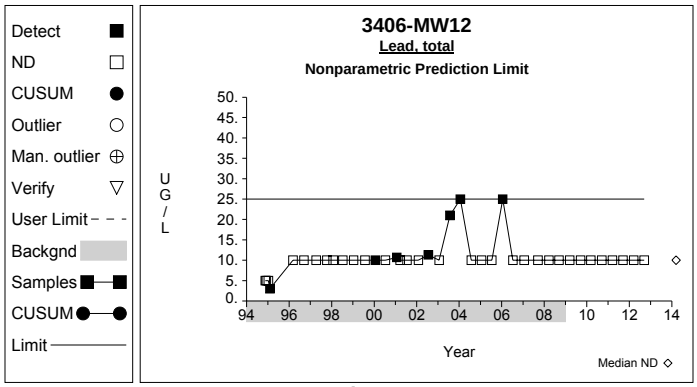


Graph 202

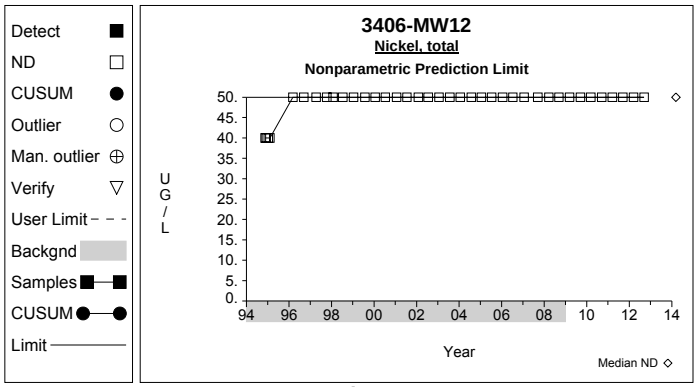


Graph 203

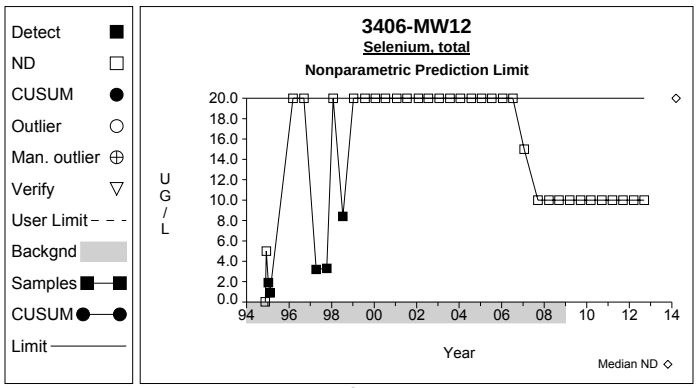
Intra-Well Control Charts



Graph 204



Graph 205



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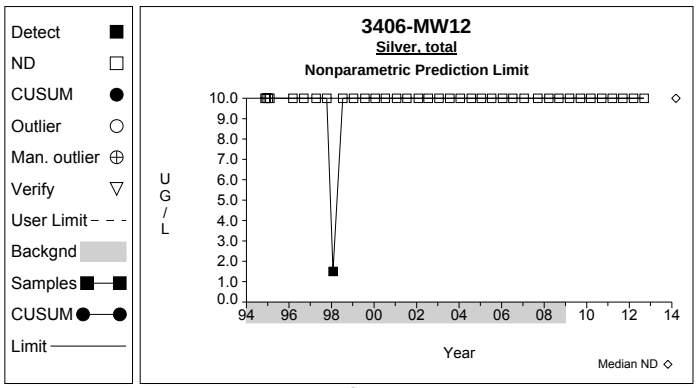

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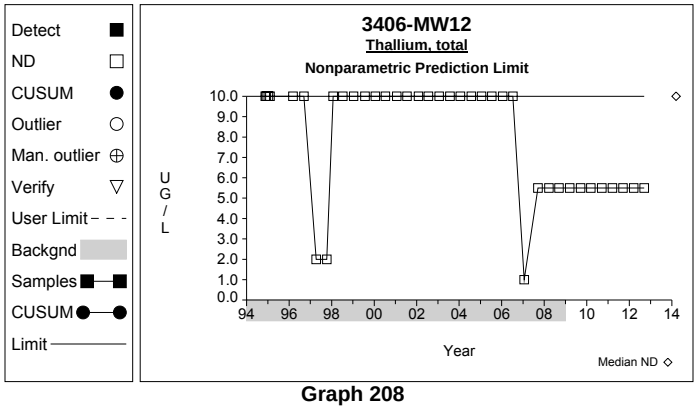

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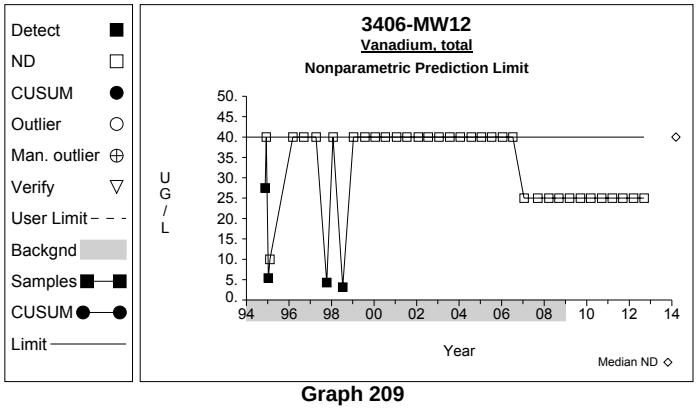
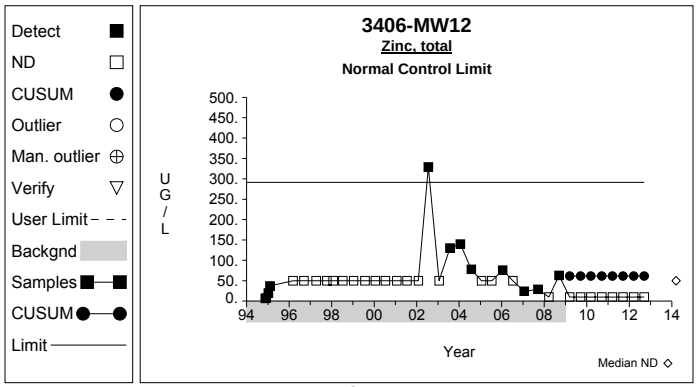
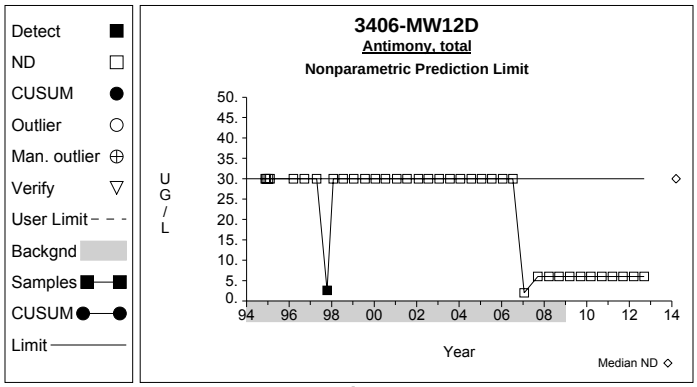


Graph 209

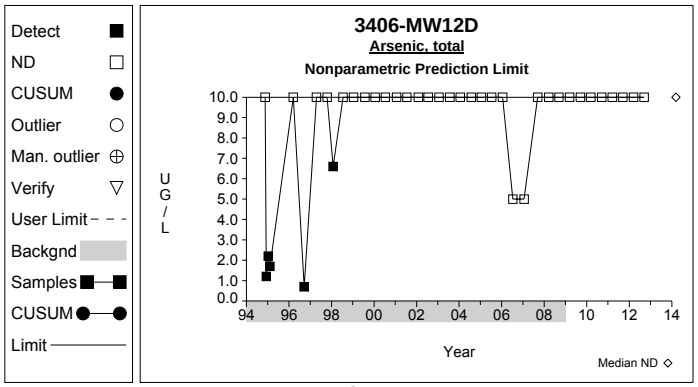


Graph 210

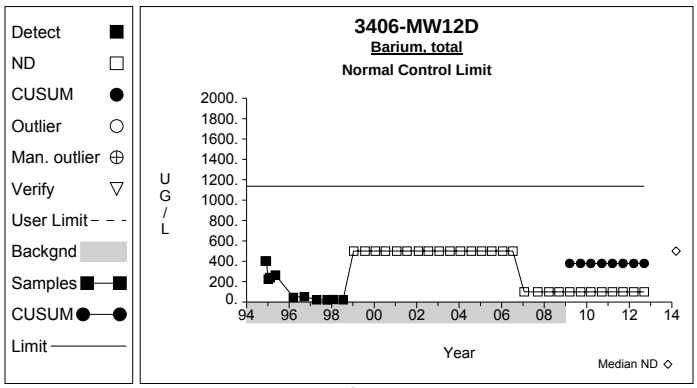
Intra-Well Control Charts



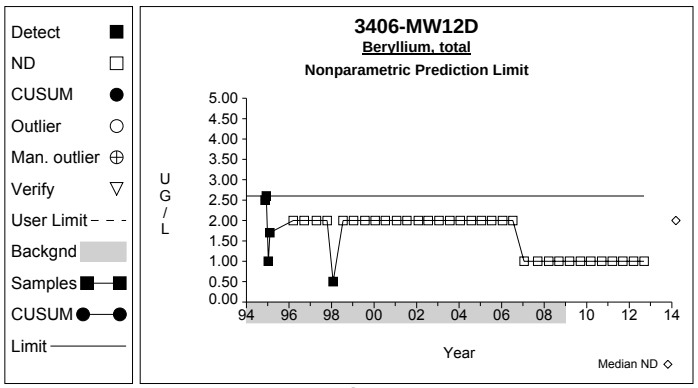
Graph 211



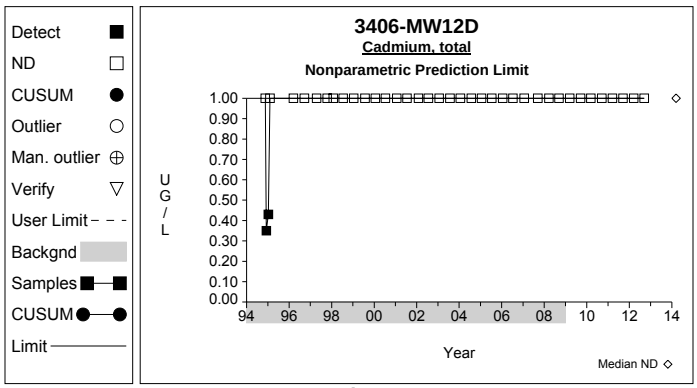
Graph 212



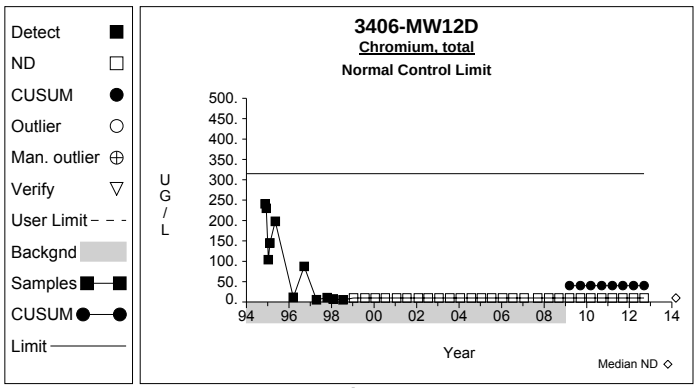
Graph 213



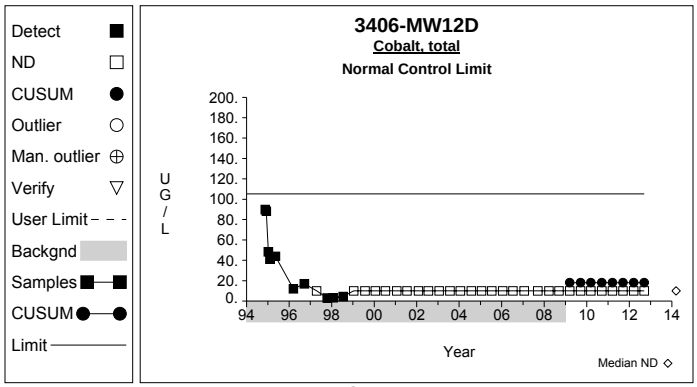
Graph 214



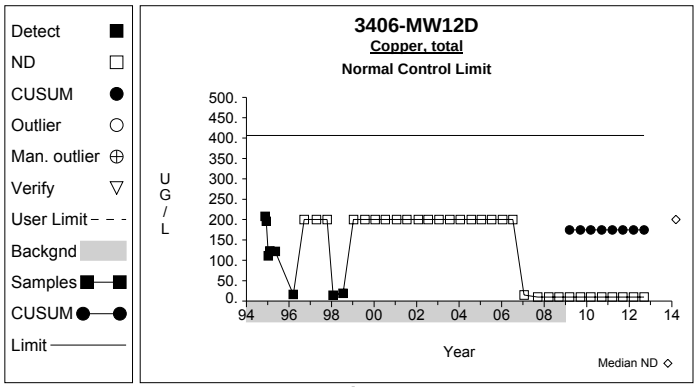
Graph 215



Graph 216

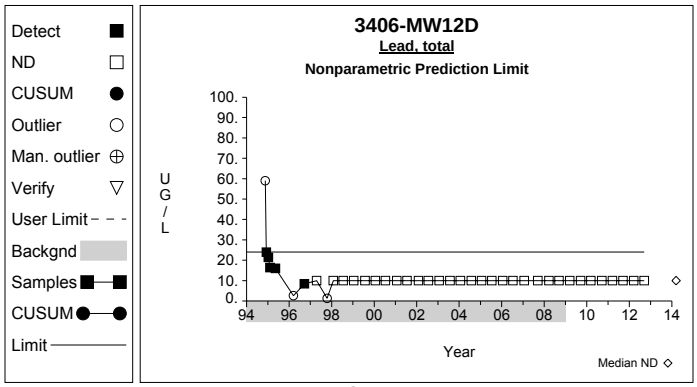


Graph 217

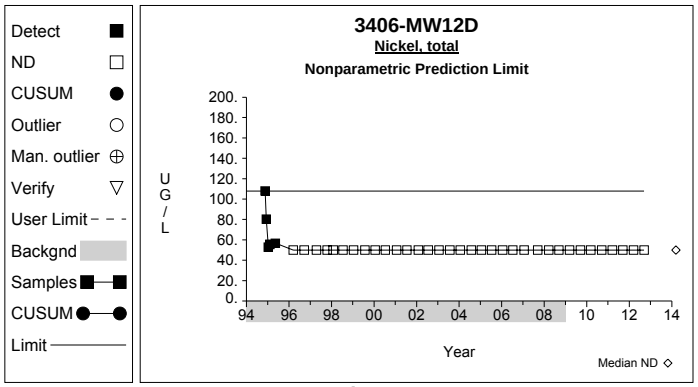


Graph 218

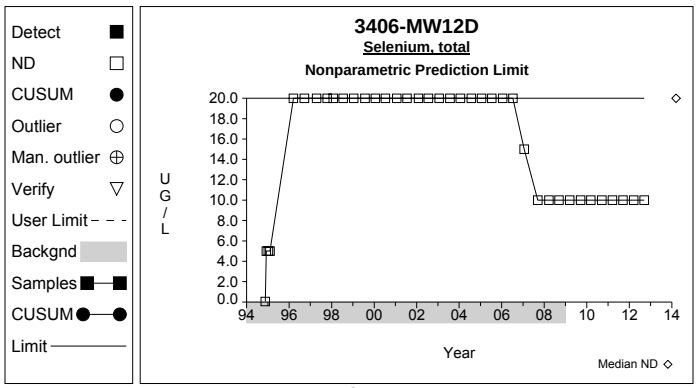
Intra-Well Control Charts



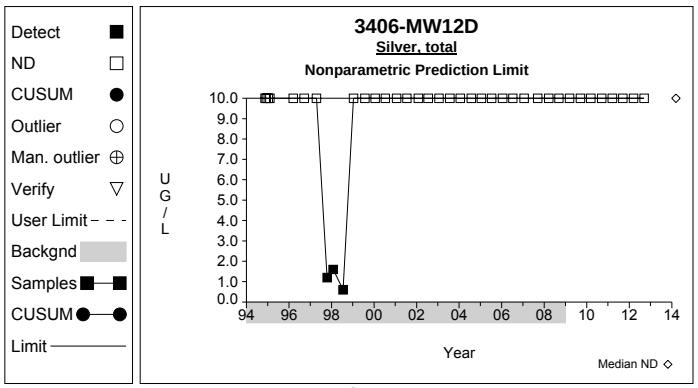
Graph 219



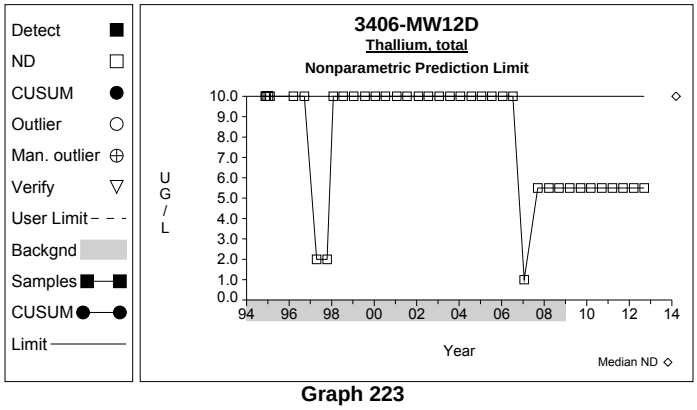
Graph 220



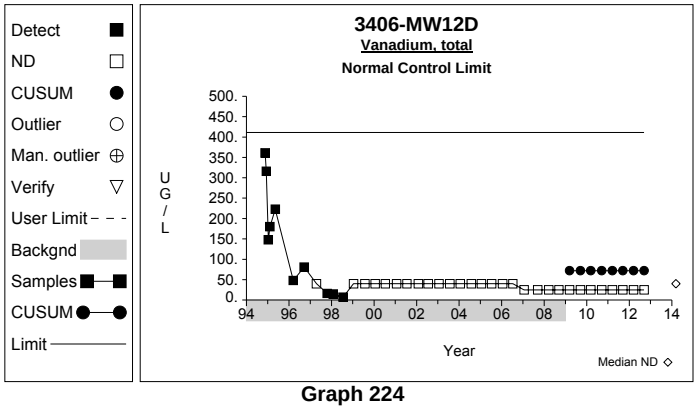
Graph 221



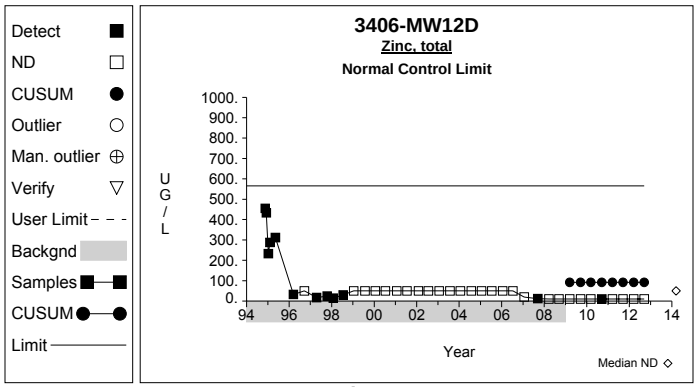
Graph 222



Graph 223

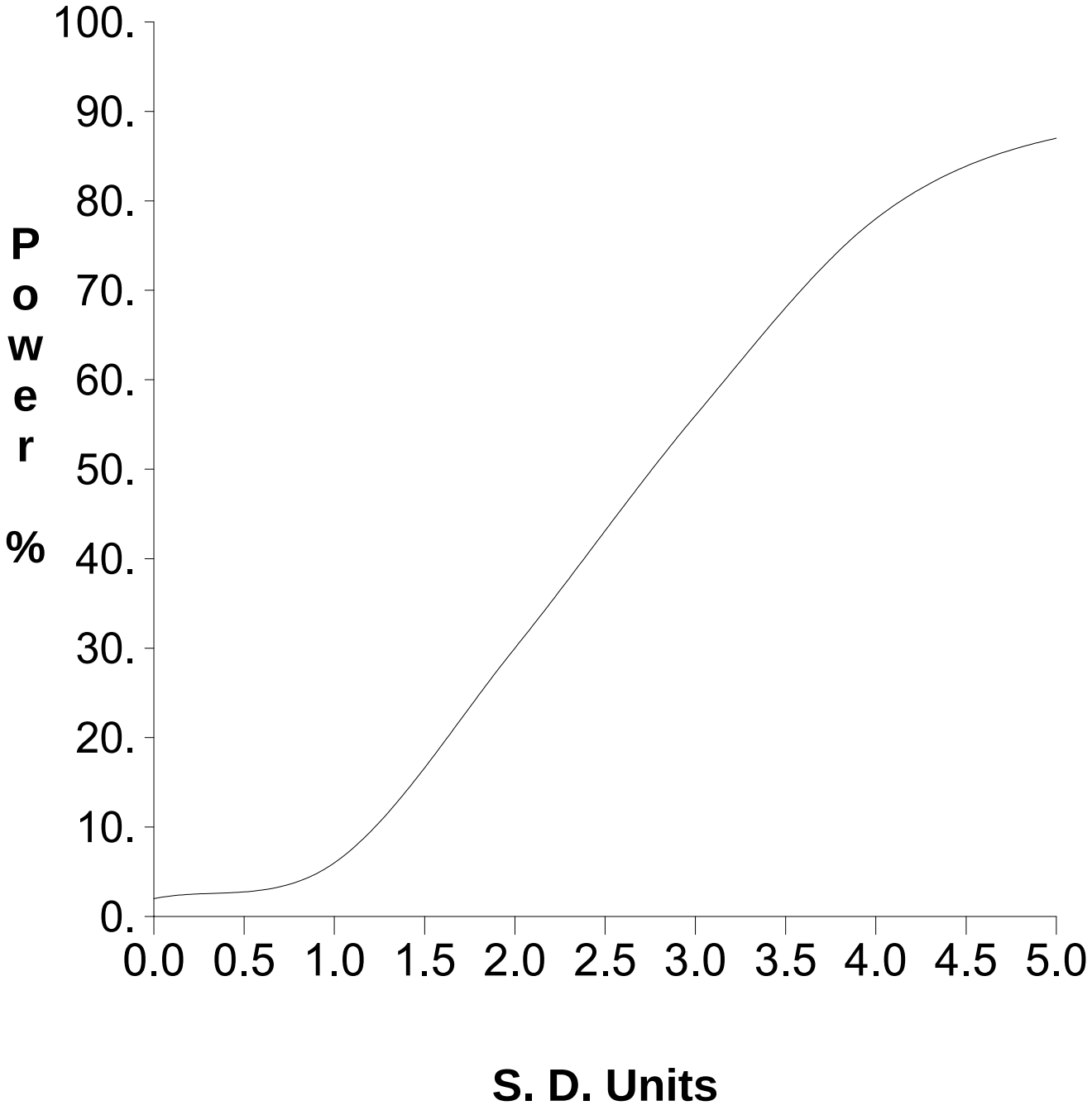


Graph 224



Graph 225

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program



Attachment C

Summary of the VOCs Detected in the Ground Water

Table 1

Historical Volatile Organic Compound Detections

Constituent	Units	Well	Date	Result	Limit
Acetone	UG/L	3406-MW01	9/09/1996	21.0000	100.0000
Heptachlor	UG/L	3406-MW01	1/27/1998	.0200	.0500
1,1-dichloroethene	UG/L	3406-MW02	7/10/1998	.4000	5.0000
Benzene	UG/L	3406-MW02	9/13/2007	1.1000	1.0000
Benzene	UG/L	3406-MW02	3/19/2008	1.4000	1.0000
Chloroform	UG/L	3406-MW02	2/16/1994	.5000	5.0000
Chloroform	UG/L	3406-MW02	4/11/1994	.5000	5.0000
Chloroform	UG/L	3406-MW02	9/14/1994	.4000	5.0000
Methane	UG/L	3406-MW02	2/05/2008	1300.0000	5.0000
Toluene	UG/L	3406-MW02	9/09/1996	.2000	5.0000
Vinyl chloride	UG/L	3406-MW02	9/13/2007	1.3000	1.0000
Vinyl chloride	UG/L	3406-MW02	11/15/2007	1.3000	1.0000
Vinyl chloride	UG/L	3406-MW02	3/19/2008	1.4000	1.0000
Vinyl chloride	UG/L	3406-MW02	9/11/2008	3.2000	1.0000
Vinyl chloride	UG/L	3406-MW02	3/10/2009	1.6000	1.0000
Benzene	UG/L	3406-MW04D	1/10/1995	.2000	5.0000
Chloromethane	UG/L	3406-MW04D	12/07/1994	.5000	10.0000
Toluene	UG/L	3406-MW04D	12/07/1994	.2000	5.0000
Toluene	UG/L	3406-MW04D	1/10/1995	.3000	5.0000
Toluene	UG/L	3406-MW04D	3/11/2009	1.2000	1.0000
Bis(2-ethylhexyl) phthalate	UG/L	3406-MW06	1/27/1998	4.0000	20.0000
Benzene	UG/L	3406-MW07	11/17/1994	.2000	5.0000
Chloromethane	UG/L	3406-MW07	3/05/1996	.6000	10.0000
Benzene	UG/L	3406-MW08	11/17/1994	.2000	5.0000
1,1,1-trichloroethane	UG/L	3406-MW09R	6/05/1997	.2000	5.0000
1,1,1-trichloroethane	UG/L	3406-MW09R	10/16/1997	.2000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	3/11/1996	1.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	9/17/1996	3.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/22/1997	9.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	6/05/1997	7.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	10/16/1997	8.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/27/1998	8.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/14/1998	2.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/20/2000	23.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	2/16/2000	24.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/12/2000	20.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	11/21/2000	26.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/24/2001	28.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/18/2001	19.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/31/2002	21.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/18/2002	24.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/21/2003	7.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/24/2003	14.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/22/2004	22.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/27/2004	20.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/19/2005	16.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/12/2005	18.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/18/2006	12.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	7/12/2006	11.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	1/24/2007	6.1000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	9/12/2007	12.0000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	3/19/2008	6.3000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	9/11/2008	6.1000	5.0000
1,1-dichloroethane	UG/L	3406-MW09R	9/16/2009	5.1000	5.0000
1,2-dichloroethane	UG/L	3406-MW09R	3/11/1996	.2000	5.0000
3-methylphenol	UG/L	3406-MW09R	1/22/1997	2.0000	10.0000
4-methylphenol	UG/L	3406-MW09R	1/22/1997	2.0000	10.0000
Acetone	UG/L	3406-MW09R	3/11/1996	66.0000	100.0000
Acetone	UG/L	3406-MW09R	4/29/1996	35.0000	34.0000
Acetone	UG/L	3406-MW09R	9/17/1996	12.0000	100.0000
Acetone	UG/L	3406-MW09R	6/05/1997	6.0000	100.0000
Benzene	UG/L	3406-MW09R	3/11/1996	5.0000	5.0000
Benzene	UG/L	3406-MW09R	4/29/1996	3.0000	5.0000
Benzene	UG/L	3406-MW09R	9/17/1996	.9000	5.0000
Benzene	UG/L	3406-MW09R	1/22/1997	2.0000	5.0000
Benzene	UG/L	3406-MW09R	6/05/1997	1.0000	5.0000
Benzene	UG/L	3406-MW09R	10/16/1997	.9000	5.0000
Bis(2-ethylhexyl) phthalate	UG/L	3406-MW09R	1/22/1997	3.0000	50.0000
Bis(2-ethylhexyl) phthalate	UG/L	3406-MW09R	1/27/1998	9.0000	20.0000
Carbon disulfide	UG/L	3406-MW09R	3/11/1996	.2000	100.0000
Carbon disulfide	UG/L	3406-MW09R	9/17/1996	.3000	100.0000
Chloroethane	UG/L	3406-MW09R	9/14/1994	1.0000	10.0000
Chloroethane	UG/L	3406-MW09R	12/06/1994	1.0000	10.0000
Chloroethane	UG/L	3406-MW09R	1/10/1995	2.0000	10.0000
Chloroethane	UG/L	3406-MW09R	3/11/1996	7.0000	10.0000
Chloroethane	UG/L	3406-MW09R	9/17/1996	25.0000	10.0000

Detections are shown for constituents selected in the VOC list and all selected wells
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Units	Well	Date	Result	Limit
Chloroethane	UG/L	3406-MW09R	11/18/1996	27.0000	10.0000
Chloroethane	UG/L	3406-MW09R	1/22/1997	32.0000	10.0000
Chloroethane	UG/L	3406-MW09R	6/05/1997	16.0000	10.0000
Chloroethane	UG/L	3406-MW09R	10/16/1997	14.0000	10.0000
Chloroethane	UG/L	3406-MW09R	1/27/1998	8.0000	10.0000
Chloroethane	UG/L	3406-MW09R	7/14/1998	.5000	10.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	9/17/1996	2.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/22/1997	3.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	6/05/1997	2.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	10/16/1997	2.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/27/1998	1.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	7/18/2002	6.5000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/21/2003	6.9000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	7/24/2003	7.5000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/22/2004	12.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	7/27/2004	12.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/19/2005	11.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	7/12/2005	11.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	1/18/2006	8.4000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	7/12/2006	6.5000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-MW09R	9/12/2007	5.1000	5.0000
Dichlorodifluoromethane	UG/L	3406-MW09R	1/22/1997	2.0000	10.0000
Dichlorodifluoromethane	UG/L	3406-MW09R	1/27/1998	.7000	5.0000
Ethane	UG/L	3406-MW09R	11/21/2000	.9600	.5000
Isobutyl alcohol	UG/L	3406-MW09R	1/22/1997	30.0000	50.0000
Methane	UG/L	3406-MW09R	11/21/2000	720.0000	.5000
Methane	UG/L	3406-MW09R	11/21/2000	4100.0000	100.0000
Methyl ethyl ketone	UG/L	3406-MW09R	3/11/1996	10.0000	100.0000
Methylene chloride	UG/L	3406-MW09R	3/11/1996	.5000	10.0000
Methylene chloride	UG/L	3406-MW09R	9/17/1996	2.0000	10.0000
Methylene chloride	UG/L	3406-MW09R	1/22/1997	6.0000	10.0000
Methylene chloride	UG/L	3406-MW09R	6/05/1997	3.0000	10.0000
Methylene chloride	UG/L	3406-MW09R	10/16/1997	5.0000	10.0000
Methylene chloride	UG/L	3406-MW09R	1/27/1998	4.0000	10.0000
Methylene chloride	UG/L	3406-MW09R	7/14/1998	.3000	10.0000
Tetrachloroethene	UG/L	3406-MW09R	3/11/1996	1.0000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	9/17/1996	.5000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	1/22/1997	1.0000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	6/05/1997	1.0000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	10/16/1997	1.0000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	1/27/1998	.6000	5.0000
Tetrachloroethene	UG/L	3406-MW09R	7/14/1998	.3000	5.0000
Toluene	UG/L	3406-MW09R	9/17/1996	.6000	5.0000
Toluene	UG/L	3406-MW09R	1/22/1997	2.0000	5.0000
Toluene	UG/L	3406-MW09R	6/05/1997	4.0000	5.0000
Total xylenes	UG/L	3406-MW09R	9/17/1996	1.0000	5.0000
Total xylenes	UG/L	3406-MW09R	1/22/1997	2.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	3/11/1996	.5000	5.0000
Trichloroethene	UG/L	3406-MW09R	9/17/1996	1.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	1/22/1997	2.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	6/05/1997	1.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	10/16/1997	2.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	1/27/1998	2.0000	5.0000
Trichloroethene	UG/L	3406-MW09R	7/14/1998	.2000	5.0000
Vinyl chloride	UG/L	3406-MW09R	3/11/1996	.5000	10.0000
Vinyl chloride	UG/L	3406-MW09R	9/17/1996	1.0000	10.0000
Vinyl chloride	UG/L	3406-MW09R	1/22/1997	2.0000	10.0000
Vinyl chloride	UG/L	3406-MW09R	6/05/1997	1.0000	10.0000
Vinyl chloride	UG/L	3406-MW09R	10/16/1997	1.0000	10.0000
Vinyl chloride	UG/L	3406-MW09R	1/27/1998	.6000	10.0000
Chloromethane	UG/L	3406-MW10	3/05/1996	.8000	10.0000
Acetone	UG/L	3406-MW11	3/11/1996	8.0000	100.0000
Acetone	UG/L	3406-MW11D	12/07/1994	110.0000	34.0000
Chloromethane	UG/L	3406-MW12D	11/18/1994	.9000	10.0000
Chloromethane	UG/L	3406-MW12D	12/06/1994	.6000	10.0000
Methylene chloride	UG/L	3406-MW12D	7/16/1998	.2000	10.0000
1,1-dichloroethane	UG/L	3406-S05	9/14/1994	.8000	5.0000
1,1-dichloroethane	UG/L	3406-S05	9/14/1995	.8000	5.0000
1,1-dichloroethane	UG/L	3406-S05	3/04/1996	.3000	5.0000
1,1-dichloroethane	UG/L	3406-S05	9/23/1996	.4000	5.0000
1,1-dichloroethane	UG/L	3406-S05	3/27/1997	.2000	5.0000
1,1-dichloroethane	UG/L	3406-S05	10/07/1997	.3000	5.0000
1,1-dichloroethane	UG/L	3406-S05	7/14/1998	.2000	5.0000
Acetone	UG/L	3406-S05	3/04/1996	8.0000	100.0000
Cis-1,2-dichloroethene	UG/L	3406-S05	2/17/1994	.9000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-S05	9/14/1994	1.0000	5.0000

Detections are shown for constituents selected in the VOC list and all selected wells
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Units	Well	Date	Result	Limit
Cis-1,2-dichloroethene	UG/L	3406-S05	1/10/1995	.8000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-S05	9/14/1995	2.0000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-S05	3/04/1996	.7000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-S05	9/23/1996	.8000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-S05	3/27/1997	.4000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-S05	10/07/1997	.5000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-S05	1/30/1998	.3000	5.0000
Cis-1,2-dichloroethene	UG/L	3406-S05	7/14/1998	.4000	5.0000
Trichloroethene	UG/L	3406-S05	9/14/1994	.2000	5.0000
Trichloroethene	UG/L	3406-S05	9/14/1995	.2000	5.0000
Trichlorofluoromethane	UG/L	3406-S05	2/17/1994	.6000	5.0000
Vinyl chloride	UG/L	3406-S05	9/14/1995	.5000	10.0000
Vinyl chloride	UG/L	3406-S05	3/04/1996	.4000	10.0000
Vinyl chloride	UG/L	3406-S05	9/23/1996	.4000	10.0000

Detections are shown for constituents selected in the VOC list and all selected wells
The Limit column refers to the laboratory reporting limit

APPENDIX C

GROUNDWATER FLOW REGIME REPORT

Piedmont Landfill & Recycling Center
Permit 34-06

APPENDIX C:
Groundwater Flow Regime Report – September 2012 Event

On behalf of Waste Management, Joyce Engineering has reviewed groundwater flow rates and flow directions at the Piedmont Landfill and Recycling Center for the second semiannual groundwater sampling event of 2012. The groundwater flow and direction calculations presented in this report are based on groundwater elevation data obtained by ProTech on September 12-13, 2012. The information provided in this report will satisfy, in part, the environmental reporting requirements of Piedmont Landfill's Municipal Solid Waste Permit.

The groundwater level measurements taken during the above referenced sampling event were used to construct the groundwater surface contour map attached to this report as *Drawing No. 1*. A summary of groundwater elevations obtained during this and previous sampling events is provided in *Table 2*. The potentiometric contours and the groundwater flow directions presented in *Drawing No. 1* were used to calculate hydraulic gradients for the site. The hydraulic gradient calculations are provided in *Table 3*. The hydraulic gradients (**i**) ranged from 0.012 ft/ft to 0.028 ft/ft. These gradients are generally consistent with past interpretations for the site.

An effective porosity value (**n**) of 41 percent was used in the equation based on an average of six laboratory-derived porosities as reported in the April 1994 *Design Hydrogeologic Study*, prepared by RUST Environment & Infrastructure. Hydraulic conductivities (**K**) were also taken from the *Design Hydrogeologic Study*, and were based on slug test data from piezometers located nearest the respective groundwater flow paths. Using the gradient (**i**) along each flow path, the linear flow velocity (**V**) was estimated using the modified Darcy equation: $\mathbf{V = i\,K/n}$. The flow rate calculations are presented in *Table 4*.

As shown on *Drawing 1*, groundwater flow at the site is generally west to northwest. Segment i_1 was 20.6 feet/year to the north-northwest; Segment i_2 was 5.3 feet/year to the northwest; Segment i_3 was 10.6 feet/year to the west. The average groundwater flow rate for September 2012 was approximately 12.2 feet/year. These groundwater flow directions and velocities are consistent with those calculated during other recent events.

The groundwater measurements obtained during the September 2012 event are generally consistent with those obtained during previous sampling events. Based on this information, it is our opinion that the groundwater monitoring system continues to be adequate for the detection of the release of solid waste constituents to the environment.

Piedmont Landfill & Recycling Center – Permit No. 34-06
Groundwater Flow Regime Report – September 2012 Event

Prepared by:

JOYCE ENGINEERING

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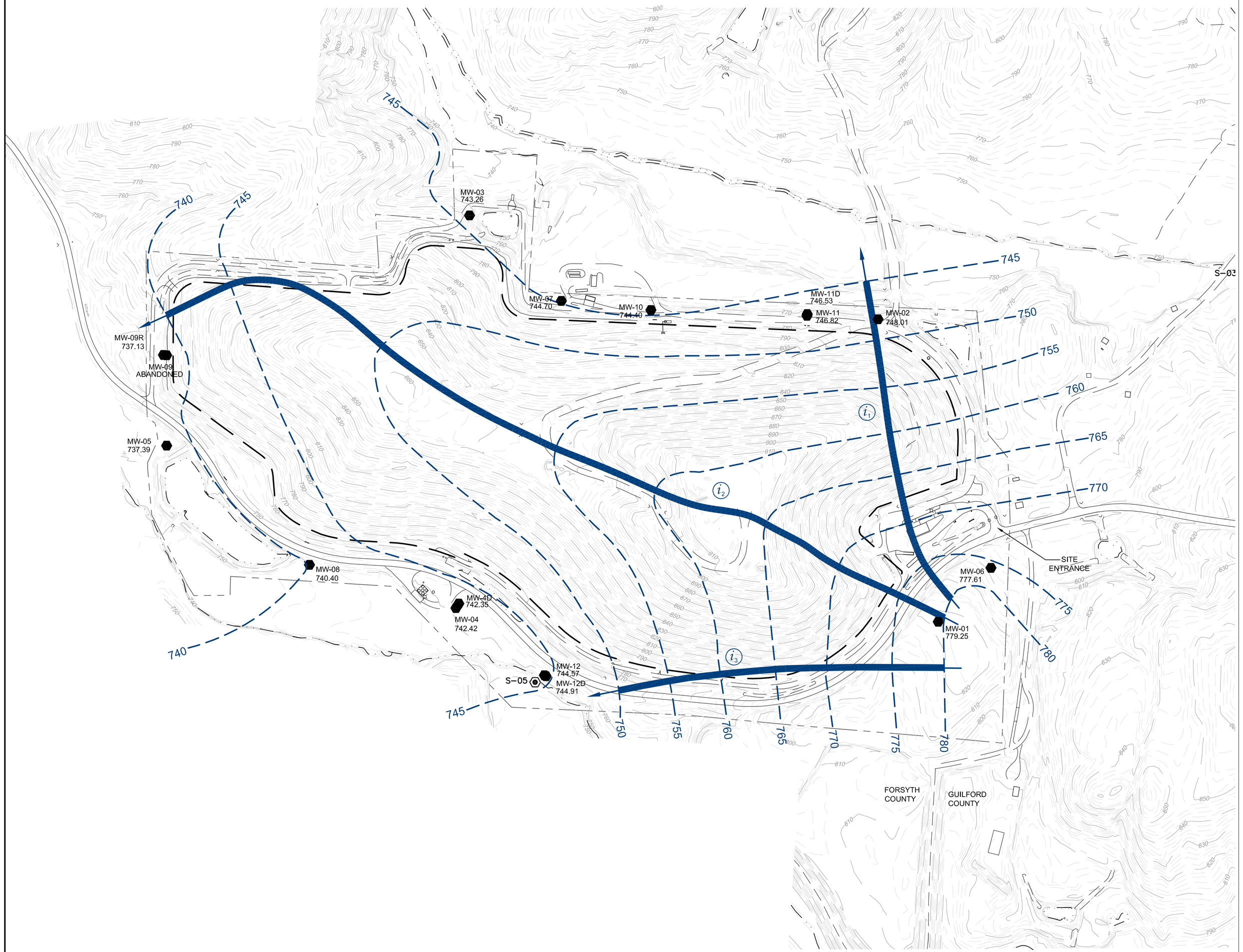
Prepared by: _____
G. Van Ness Burbach, Ph.D., P.G.

NORTH CAROLINA LICENSED SEAL 1349 GEOLOGIST G. VAN NESS BURBACH

Attachments: Drawing No. 1 – Groundwater Surface Map
Table 2 – Historical Groundwater Elevations
Table 3 – Groundwater Flow Rate Calculations



LEGEND

- EXISTING 10' TOPOGRAPHIC CONTOUR (850)
- EXISTING 2' TOPOGRAPHIC CONTOUR
- APPROXIMATE LIMITS OF WASTE
- GROUNDWATER SURFACE CONTOUR [FEET ABOVE MEAN SEA LEVEL (AMSL)] (740)
- GROUNDWATER FLOW DIRECTION
- EXISTING ROAD
- CENTERLINE OF STREAM
- PROPERTY LINE
- GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION WITH STATIC WATER LEVEL ELEVATION (FEET AMSL) (MW-9R 737.13)
- SURFACE WATER MONITORING POINTS (S-03)
- SEGMENT USED FOR GRADIENT CALCULATIONS (i_4)

NOTES:

1. TOPOGRAPHIC CONTOUR INTERVAL = 2 FEET.
2. GROUNDWATER SURFACE CONTOUR INTERVAL = 5 FEET.
3. STATIC WATER LEVELS MEASURED ON 09/12/12.
4. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATA, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
5. TOPOGRAPHIC MAP AND SURVEYED WELL LOCATIONS PROVIDED TO JOYCE ENGINEERING, INC. BY PIEDMONT LANDFILL.
6. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.
7. THE LOCATIONS OF SURFACE WATER MONITORING POINTS ARE APPROXIMATE AS SHOWN.

GRAPHIC SCALE
0 100 200 400
(FEET)

Well ID	Installation Date	Location Relative to Waste	Screened Interval (feet BGS)	Lithology of Screened Interval	Monitoring Program *
MW-01	07/13/89	Upgradient	44.0 - 49.0	WEATHERED GNEISS BEDROCK	Detection
MW-02	08/05/89	Downgradient	20.2 - 25.2	SILTY SAND	Detection
MW-03	08/06/89	Downgradient	32.5 - 37.5	SILTY SAND	Detection
MW-04	07/14/89	Downgradient	20.0 - 25.0	SILTY SAND	Detection
MW-04D	02/18/94	Downgradient	53.25-58.25	SAPROLITE/BEDROCK	Detection
MW-05	08/02/89	Downgradient	14.45 - 19.45	SILTY SAND	Detection
MW-06	08/09/93	Upgradient	20.9 - 25.9	SILTY SAND	Detection
MW-07	08/25/94	Downgradient	17.0 - 32.4	SILTY SAND	Detection
MW-08	08/31/94	Downgradient	5.0 - 20.0	SILTY SAND	Detection
MW-09	08/30/94	Downgradient	19.81 - 34.22	SAND/SAPROLITE BEDROCK	Abandoned
MW-09R	11/09/99	Downgradient	32.0 - 42.5	BEDROCK	Detection
MW-10	10/24/94	Downgradient	20.0 - 36.99	CLAYEY SILT/SILT	Detection
MW-11	11/17/94	Downgradient	19.01 - 34.22	SILT/SANDY SILT	Detection
MW-11D	11/15/94	Downgradient	81.82 - 91.79	SANDY SILT/GRAVELY SILT	Detection
MW-12	10/21/94	Downgradient	3.33 - 17.22	SILTY CLAY/SILTY SAND/SANDY SILT	Detection
MW-12D	10/27/94	Downgradient	31.98 - 42.2	SILTY GRAVEL	Detection

BGS = below ground surface

* Monitoring Program = status as of April 2012

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED	ASE
DRAWN	RWH
CHECKED	RLW
APPROVED	GVB
DATE	10/23/12

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PIEDMONT LANDFILL AND RECYCLING CENTER
KERNERSVILLE, NORTH CAROLINA

GROUNDWATER SURFACE MAP
SEPTEMBER 12, 2012
PERMIT NO. 34-06

PROJECT NO.
392.1201.12.01

SCALE
AS NOTED

DRAWING NO.
1

N:\Dwgs\Drawings-Current\WM\Piedmont\GW EVENT MAPS\GW EVENT 09-12.dwg Layout=Layout1

TABLE 2
HISTORICAL GROUNDWATER ELEVATIONS

DATA	MONITORING WELL WATER LEVEL ELEVATIONS															
Well ID:	**MW-01**	**MW-02**	**MW-03**	**MW-04**	**MW-04D**	**MW-05**	**MW-06**	**MW-07**	**MW-08**	**MW-09**	**MW-09R**	**MW-10**	**MW-11**	**MW-11D**	**MW-12**	**MW-12D**
TOC Elevation:	823.93	778.04	770.08	756.92	757.33	743.17	800.82	771.57	748.95	770.62	764.95	777.20	776.80	776.36	751.48	751.53
Well Depth:	49.0	25.5	38.0	27.0	62.0	20.5	29.6	31.3	18.8	35.0	43.0	38.0	35.0	93.5	18.0	43.3
30-Jan-1998	781.82	750.71	746.26	745.46	745.46	738.49	779.84	744.32	744.30	737.47	NA	744.42	749.08	747.66	746.58	747.05
21-Jul-1998	784.78	750.06	746.76	743.92	743.78	737.14	781.04	745.07	741.20	738.96	NA	744.35	748.95	748.58	745.88	746.11
14-Jan-1999	780.98	749.16	744.91	744.27	744.16	737.60	777.86	743.57	742.68	736.62	NA	743.63	748.09	747.74	745.93	746.11
27-Jul-1999	780.48	749.08	744.86	743.26	743.28	734.04	777.52	743.92	740.53	737.12	NA	743.62	748.05	747.75	745.53	745.68
20-Jan-2000	780.30	748.51	744.83	744.77	744.43	737.82	777.27	743.87	743.18	NA	737.14	743.90	748.36	747.97	746.28	746.53
12-Jul-2001	780.10	748.73	745.30	742.88	743.06	737.08	776.81	744.25	740.40	NA	738.12	743.66	747.77	747.44	745.45	745.71
24-Jan-2001	778.93	748.91	744.43	744.69	744.73	737.72	775.84	743.40	743.41	NA	737.35	743.49	747.85	747.54	746.06	746.54
17,18-Jul-2001	779.59	748.41	744.61	742.72	742.78	736.76	776.08	743.92	739.99	NA	737.77	743.35	749.45	747.09	745.45	745.40
30,31-Jan-2002	777.29	748.14	743.08	743.09	743.49	737.37	773.72	742.57	742.17	NA	736.40	742.74	747.35	747.03	745.14	742.42
17,18-Jul-2002	776.47	747.29	742.88	741.80	741.93	736.48	772.97	742.57	738.97	NA	735.86	742.30	746.54	746.21	744.27	744.44
20,21-Jan-2003	777.12	748.14	745.45	743.87	743.96	737.40	775.08	744.06	742.51	NA	738.06	743.60	748.05	746.57	745.50	745.92
23,24-Jul-2003	782.10	749.48	748.08	743.92	743.83	738.07	778.39	745.53	742.74	NA	741.80	744.60	748.40	748.16	745.83	746.08
21,22-Jan-2004	781.75	748.89	746.57	743.77	743.84	737.36	778.02	744.37	742.30	NA	739.10	743.91	747.86	747.47	745.87	746.07
27,28-Jul-2004	780.80	748.24	745.18	742.27	742.43	736.77	776.65	743.96	739.65	NA	738.45	743.37	747.26	746.96	745.03	745.31
19,20-Jan-2005	780.38	749.11	745.43	744.35	744.37	737.97	777.46	744.56	743.35	NA	739.05	744.95	748.39	747.75	746.02	746.39
11,12,13-Jul-2005	780.55	748.59	744.82	742.81	742.87	735.22	777.51	744.96	740.87	NA	739.20	744.51	747.60	747.26	745.21	745.43
16,17,18-Jan-2006	778.76	748.58	744.75	744.03	744.13	737.77	776.53	744.19	743.40	NA	737.95	744.21	747.70	747.36	745.73	746.09
10,11,12-Jul-2006	779.27	748.17	744.47	743.69	743.58	737.39	776.09	744.08	741.90	NA	738.07	744.00	747.05	746.76	745.51	745.77
22, 23, 24-Jan-2007	781.16	749.52	745.64	744.30	744.30	738.22	778.37	745.67	743.79	NA	739.33	745.14	748.40	747.94	745.95	746.33
12,13-Sep-2007	781.71	747.84	743.58	741.65	741.58	736.57	773.75	744.06	738.53	NA	737.60	743.15	746.70	746.26	744.48	744.44
19-Mar-2008	780.19	749.02	744.26	744.04	744.04	737.91	777.94	744.85	743.34	NA	737.35	744.87	747.99	747.62	745.42	746.05
11-Sep-2008	779.78	747.53	743.05	742.03	741.98	736.92	775.93	743.93	739.86	NA	736.89	743.55	746.55	746.14	744.54	744.65
11-Mar-2009	779.55	749.34	744.67	743.91	744.14	737.96	777.02	745.84	743.52	NA	738.35	747.67	748.13	747.76	745.37	746.01
16-Sep-2009	780.08	747.87	743.28	741.69	741.56	736.64	775.82	744.64	738.49	NA	737.13	743.37	746.84	746.36	744.41	744.38
10-Mar-2010	781.45	750.17	745.87	744.22	744.21	738.17	779.04	748.14	743.24	NA	741.16	748.24	749.06	748.61	745.33	746.23
16-Sep-2010	781.85	748.47	744.64	742.51	742.53	737.22	777.86	745.57	740.03	NA	737.90	744.90	747.42	747.07	744.86	745.08
15-Mar-2011	780.68	749.36	745.05	743.89	744.35	738.29	778.17	746.17	743.74	NA	738.35	745.14	748.42	747.47	744.91	745.63
14-Sep-2011	779.51	747.58	742.58	742.01	741.95	736.34	775.42	744.48	739.28	NA	736.20	742.70	746.64	746.26	744.35	744.66
14-Mar-2012	779.74	748.97	744.85	743.92	743.91	738.05	777.61	746.82	742.95	NA	738.28	746.07	748.02	747.48	745.37	745.72
12-Sep-2012	779.25	748.01	743.26	742.42	742.35	737.39	775.87	744.70	740.40	NA	737.13	744.40	746.82	746.53	744.57	744.91

Notes:
TOC = Top of PVC casing.
All depths in feet measured from TOC.
TOC elevation for MW-02 is revised reflecting improvements were made to the well in July 2001 prior to sampling.
All water level elevations are reported in feet above mean sea level.
NA = data not available.

TABLE 3
GROUNDWATER FLOW RATE CALCULATIONS

GRADIENT CALCULATION SEGMENT	HYDRAULIC CONDUCTIVITY (K, cm/s)	HYDRAULIC CONDUCTIVITY (K, ft/s)	EFFECTIVE POROSITY (**n**, unitless)	FLOW SEGMENT LENGTH (ft)	FLOW DIRECTION	September 12, 2012		
						Elevation (ft AMSL)	**Gradient** (**i**, ft/ft)	**Velocity** (**V**, ft/yr)
i_1	2.90E-04	9.51E-06	0.41	1243	NNW	780 745	0.028	20.6
i_2	1.70E-04	5.58E-06	0.41	3249	NW	780 740	0.012	5.3
i_3	1.70E-04	5.58E-06	0.41	1217	W	780 750	0.025	10.6
						AVERAGE:	0.022	12.2

Note:

1. An effective porosity (“n”) of 41% was based on average laboratory-derived porosity as reported in the April 1994 Design Hydrogeologic Study, prepared by RUST Environment & Infrastructure.
2. Hydraulic conductivities (“K”) were also taken from the Design Hydrogeologic Study, and were based on slug test data from piezometers originally located nearest the respective groundwater flow paths.
3. V = i K / n