WASTE MANAGEMENT

WASTE MANAGEMENT
1850 Parkway Place
Suite 600
Marietta, GA 30067

April 29, 2013

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: First Semiannual Groundwater Monitoring Report of 2013
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 First Semiannual Detection Groundwater Monitoring Event of 2013 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 March 20-21, 2013. 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 constituents detected for this site during the first semiannual sampling event of 2013, 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 third quarter of 2013. If you have any questions or concerns regarding this report, please call me at (770) 590-2936.

Sincerely,
Waste Management of Carolinas, Inc.

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

Enclosure

Copy: Larry Hineline, P.G. – Joyce Engineering

PREPARED FOR:

PIEDMONT LANDFILL & RECYCLING CENTER
9901 FREEMAN ROAD
KERNERSVILLE, NORTH CAROLINA 27284

PIEDMONT LANDFILL & RECYCLING CENTER
PERMIT # 34-06

FIRST SEMIANNUAL
GROUNDWATER MONITORING REPORT OF 2013

APRIL 2013

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. 00392.1301.12.

PIEDMONT LANDFILL & RECYCLING CENTER

PERMIT # 34-06

FIRST SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2013

APRIL 2013

Prepared by:

JOYCE ENGINEERING

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

Prepared by: _____
T. Lawrence Hineline, P.G.
NC License # 2357

NORTH CAROLINA LICENSED SEAL 2357 GEOLOGIST T. LAWRENCE HINELINE

JOYCE Project # 392.1301.12, Task 01

JOYCE ENGINEERING

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April 16, 2013

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

RE: First Semiannual Groundwater Monitoring Report of 2013
Piedmont Landfill & Recycling Center, Permit No. 34-06
JOYCE Project No. 392.1301.12, 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 first semiannual groundwater monitoring event of 2013. 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 March 20-21, 2013 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 March 2013 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 first semiannual event of 2013, 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 March 2013 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, copper in MW-03, zinc in MW-04D, MW-07, and MW-11D and chromium in MW-03. Chromium was detected above the NC 2L in MW-03. The chromium results in MW-03 was not 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 March 2013 sampling event.

SUBMITTAL OF LEACHATE ANALYTICAL DATA:

Appendix A to this report contains the leachate monitoring results for March 2013 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 March 2013 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 March 2013 monitoring event. Four inorganic constituents had quantified detections in some monitoring wells, and chromium was detected above the NC 2L groundwater standard in MW-03. None of the detections were identified as SSI above the background.

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 third quarter of 2013. If you have any questions, feel free to contact me or Steve Cowie at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING

Larry Hineline, PG
Technical Consultant

Attachments: Environmental Monitoring Reporting Form
Table 1 – Summary of Detected Constituents – March 2013
Appendix A – Laboratory Analytical Reports
Appendix B – Groundwater Statistical Analyses Report (on CD)
Appendix C – Groundwater Flow Regime Report

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

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

Name: T. Lawrence Hineline P.G. Phone: (336) 323-0092

E-mail: lhineline@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 27284	34-06	.1600	March 20-21, 2013

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 4/29/13

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

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	1057.2	No
3406-MW03	Chromium	13	µg/L	10	10	19.5	No
3406-MW11D	Copper	10	µg/L	10	1000	434.8	No
3406-MW4D	Zinc	19	µg/L	10	1000	210.9	No
3406-MW07	Zinc	16	µg/L	10	1000	50.0	No
3406-MW11D	Zinc	12	µg/L	10	1000	170.5	No

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: 280-40178-1

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
4/3/2013 1:22 PM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
04/03/2013

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: 280-40178-1

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 03/21/2013 and 03/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.2C and 3.9C.

Holding Times

The 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)

The Method 8260B MS/MSD performed on the sample 3406-MW01 exhibited a RPD result outside the RPD limit for 1,1-Dichloroethene. Because the corresponding Matrix Spike and Matrix Spike Duplicate recoveries, Laboratory Control Sample, and Method Blank sample were within control limits, this anomaly is considered to be due to matrix interference and no corrective action was taken.

Sample 3406-MW12 was selected to fulfill the laboratory batch quality control requirements for Method 6020A. Analysis of the laboratory generated MS/MSD for this sample exhibited recoveries of Total Antimony below the lower control limit indicating the possible presence of a matrix interference.

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

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40178-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40178-1	**3406-MW01**					
Well Elevation		823.93			ft/msl	Field Sampling
Depth to water		45.13			ft	Field Sampling
Groundwater Elevation		778.80			ft/msl	Field Sampling
Field pH		5.81			SU	Field Sampling
Field Conductivity		53			umhos/cm	Field Sampling
Field Temperature		14.4			Degrees C	Field Sampling
Field Turbidity		1.3			NTU	Field Sampling
Field Dissolved Oxygen		3.6			mg/L	Field Sampling
Field EH/ORP		146			millivolts	Field Sampling
Total Recoverable						
Barium		49	J B	100	ug/L	6010C
Chromium		0.94	J	10	ug/L	6010C
Vanadium		1.3	J	25	ug/L	6010C
Copper		0.77	J	10	ug/L	6020A
280-40178-2	**3406-MW02**					
Well Elevation		778.04			ft/msl	Field Sampling
Depth to water		28.52			ft	Field Sampling
Groundwater Elevation		749.52			ft/msl	Field Sampling
Field pH		5.06			SU	Field Sampling
Field Conductivity		120			umhos/cm	Field Sampling
Field Temperature		13.9			Degrees C	Field Sampling
Field Turbidity		0.8			NTU	Field Sampling
Field Dissolved Oxygen		1.1			mg/L	Field Sampling
Field EH/ORP		172			millivolts	Field Sampling
Total Recoverable						
Barium		140	B	100	ug/L	6010C
Antimony		0.41	J	6.0	ug/L	6020A
Zinc		4.0	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40178-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40178-3	**3406-MW03**					
Well Elevation		770.08			ft/msl	Field Sampling
Depth to water		25.99			ft	Field Sampling
Groundwater Elevation		744.09			ft/msl	Field Sampling
Field pH		5.87			SU	Field Sampling
Field Conductivity		123			umhos/cm	Field Sampling
Field Temperature		13.7			Degrees C	Field Sampling
Field Turbidity		2.4			NTU	Field Sampling
Field Dissolved Oxygen		4.3			mg/L	Field Sampling
Field EH/ORP		47			millivolts	Field Sampling
Total Recoverable						
Barium		19	J B	100	ug/L	6010C
Chromium		13		10	ug/L	6010C
Vanadium		9.7	J	25	ug/L	6010C
Copper		0.67	J	10	ug/L	6020A
280-40178-4	**3406-MW04**					
Well Elevation		756.92			ft/msl	Field Sampling
Depth to water		12.70			ft	Field Sampling
Groundwater Elevation		744.22			ft/msl	Field Sampling
Field pH		5.08			SU	Field Sampling
Field Conductivity		68			umhos/cm	Field Sampling
Field Temperature		15.2			Degrees C	Field Sampling
Field Turbidity		3.1			NTU	Field Sampling
Field Dissolved Oxygen		0.5			mg/L	Field Sampling
Field EH/ORP		117			millivolts	Field Sampling
Total Recoverable						
Barium		68	J B	100	ug/L	6010C
Cobalt		1.5	J	10	ug/L	6010C
Vanadium		1.1	J	25	ug/L	6010C
Zinc		7.7	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40178-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40178-5	**3406-MW04D**					
Well Elevation		757.33			ft/msl	Field Sampling
Depth to water		13.18			ft	Field Sampling
Groundwater Elevation		744.15			ft/msl	Field Sampling
Field pH		5.80			SU	Field Sampling
Field Conductivity		78			umhos/cm	Field Sampling
Field Temperature		15.6			Degrees C	Field Sampling
Field Turbidity		18.7			NTU	Field Sampling
Field Dissolved Oxygen		4.6			mg/L	Field Sampling
Field EH/ORP		53			millivolts	Field Sampling
Total Recoverable						
Barium		47	J B	100	ug/L	6010C
Beryllium		0.49	J	1.0	ug/L	6010C
Chromium		9.8	J	10	ug/L	6010C
Lead		4.1	J	10	ug/L	6010C
Nickel		1.4	J	50	ug/L	6010C
Vanadium		8.2	J	25	ug/L	6010C
Arsenic		0.63	J	10	ug/L	6020A
Copper		1.0	J	10	ug/L	6020A
Thallium		0.070	J	5.5	ug/L	6020A
Zinc		19		10	ug/L	6020A
280-40178-6	**3406-MW06**					
Well Elevation		778.04			ft/msl	Field Sampling
Depth to water		23.45			ft	Field Sampling
Groundwater Elevation		754.59			ft/msl	Field Sampling
Field pH		5.28			SU	Field Sampling
Field Conductivity		28			umhos/cm	Field Sampling
Field Temperature		14.5			Degrees C	Field Sampling
Field Turbidity		2.3			NTU	Field Sampling
Field Dissolved Oxygen		1.2			mg/L	Field Sampling
Field EH/ORP		146			millivolts	Field Sampling
Total Recoverable						
Barium		44	J B	100	ug/L	6010C
Chromium		1.9	J	10	ug/L	6010C
Vanadium		1.1	J	25	ug/L	6010C
Zinc		6.2	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40178-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40178-7	**3406-MW07**					
Well Elevation		771.57			ft/msl	Field Sampling
Depth to water		24.71			ft	Field Sampling
Groundwater Elevation		746.86			ft/msl	Field Sampling
Field pH		5.84			SU	Field Sampling
Field Conductivity		93			umhos/cm	Field Sampling
Field Temperature		13.7			Degrees C	Field Sampling
Field Turbidity		8.1			NTU	Field Sampling
Field Dissolved Oxygen		5.9			mg/L	Field Sampling
Field EH/ORP		83			millivolts	Field Sampling
Total Recoverable						
Barium		8.1	J B	100	ug/L	6010C
Chromium		1.2	J	10	ug/L	6010C
Vanadium		8.6	J	25	ug/L	6010C
Copper		7.4	J	10	ug/L	6020A
Zinc		16		10	ug/L	6020A
280-40178-8	**3406-MW09R**					
1,1-Dichloroethane		0.80	J	5.0	ug/L	8260B
Well Elevation		764.95			ft/msl	Field Sampling
Depth to water		26.67			ft	Field Sampling
Groundwater Elevation		738.28			ft/msl	Field Sampling
Field pH		5.93			SU	Field Sampling
Field Conductivity		250			umhos/cm	Field Sampling
Field Temperature		15.1			Degrees C	Field Sampling
Field Turbidity		0.8			NTU	Field Sampling
Field Dissolved Oxygen		0.0			mg/L	Field Sampling
Field EH/ORP		22			millivolts	Field Sampling
Total Recoverable						
Barium		11	J B	100	ug/L	6010C
Nickel		1.5	J	50	ug/L	6010C
Vanadium		8.7	J	25	ug/L	6010C
Copper		3.3	J	10	ug/L	6020A
Zinc		4.9	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40178-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40178-9	**3406-MW10**					
Well Elevation		777.20			ft/msl	Field Sampling
Depth to water		30.04			ft	Field Sampling
Groundwater Elevation		747.16			ft/msl	Field Sampling
Field pH		5.83			SU	Field Sampling
Field Conductivity		100			umhos/cm	Field Sampling
Field Temperature		13.0			Degrees C	Field Sampling
Field Turbidity		5.7			NTU	Field Sampling
Field Dissolved Oxygen		3.2			mg/L	Field Sampling
Field EH/ORP		165			millivolts	Field Sampling
Total Recoverable						
Barium		12	J B	100	ug/L	6010C
Chromium		3.3	J	10	ug/L	6010C
Nickel		1.7	J	50	ug/L	6010C
Vanadium		3.8	J	25	ug/L	6010C
Copper		2.3	J	10	ug/L	6020A
Zinc		8.2	J	10	ug/L	6020A
280-40178-10	**3406-MW11**					
1,1-Dichloroethane		0.41	J	5.0	ug/L	8260B
cis-1,2-Dichloroethene		0.24	J	5.0	ug/L	8260B
Well Elevation		776.80			ft/msl	Field Sampling
Depth to water		28.34			ft	Field Sampling
Groundwater Elevation		748.46			ft/msl	Field Sampling
Field pH		5.48			SU	Field Sampling
Field Conductivity		127			umhos/cm	Field Sampling
Field Temperature		13.5			Degrees C	Field Sampling
Field Turbidity		3.7			NTU	Field Sampling
Field Dissolved Oxygen		1.0			mg/L	Field Sampling
Field EH/ORP		140			millivolts	Field Sampling
Total Recoverable						
Barium		71	J B	100	ug/L	6010C
Cobalt		2.2	J	10	ug/L	6010C
Vanadium		2.0	J	25	ug/L	6010C
Copper		1.2	J	10	ug/L	6020A
Zinc		12		10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40178-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40178-11	**3406-MW11D**					
Well Elevation		776.36			ft/msl	Field Sampling
Depth to water		28.31			ft	Field Sampling
Groundwater Elevation		748.05			ft/msl	Field Sampling
Field pH		6.33			SU	Field Sampling
Field Conductivity		40			umhos/cm	Field Sampling
Field Temperature		12.9			Degrees C	Field Sampling
Field Turbidity		6.0			NTU	Field Sampling
Field Dissolved Oxygen		3.3			mg/L	Field Sampling
Field EH/ORP		94			millivolts	Field Sampling
Total Recoverable						
Barium		26	J	100	ug/L	6010C
Chromium		5.6	J	10	ug/L	6010C
Vanadium		9.7	J	25	ug/L	6010C
Copper		10		10	ug/L	6020A
Thallium		0.059	J	5.5	ug/L	6020A
Zinc		8.1	J	10	ug/L	6020A
280-40178-12	**3406-MW12**					
Well Elevation		751.48			ft/msl	Field Sampling
Depth to water		6.23			ft	Field Sampling
Groundwater Elevation		745.25			ft/msl	Field Sampling
Field pH		5.79			SU	Field Sampling
Field Conductivity		141			umhos/cm	Field Sampling
Field Temperature		13.8			Degrees C	Field Sampling
Field Turbidity		4.6			NTU	Field Sampling
Field Dissolved Oxygen		0.7			mg/L	Field Sampling
Field EH/ORP		59			millivolts	Field Sampling
Total Recoverable						
Barium		21	J	100	ug/L	6010C
Chromium		1.2	J	10	ug/L	6010C
Vanadium		3.4	J	25	ug/L	6010C
Copper		1.0	J	10	ug/L	6020A
Zinc		2.4	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40178-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40178-13	**3406-MW12D**					
Well Elevation		751.48			ft/msl	Field Sampling
Depth to water		5.43			ft	Field Sampling
Groundwater Elevation		746.05			ft/msl	Field Sampling
Field pH		6.67			SU	Field Sampling
Field Conductivity		228			umhos/cm	Field Sampling
Field Temperature		14.5			Degrees C	Field Sampling
Field Turbidity		5.8			NTU	Field Sampling
Field Dissolved Oxygen		0.6			mg/L	Field Sampling
Field EH/ORP		50			millivolts	Field Sampling
Total Recoverable						
Barium		7.0	J	100	ug/L	6010C
Chromium		1.0	J	10	ug/L	6010C
Vanadium		2.8	J	25	ug/L	6010C
Copper		2.4	J	10	ug/L	6020A
Zinc		4.6	J	10	ug/L	6020A
280-40225-1FB	**3406-01FB**					
Field pH		6.93			SU	Field Sampling
Field Conductivity		2			umhos/cm	Field Sampling
Field Temperature		8.4			Degrees C	Field Sampling
Field Turbidity		0.0			NTU	Field Sampling
Field Dissolved Oxygen		2.2			mg/L	Field Sampling
Field EH/ORP		36			millivolts	Field Sampling
Total Recoverable						
Barium		2.2	J	100	ug/L	6010C
280-40225-2	**3406-MW05**					
Well Elevation		743.17			ft/msl	Field Sampling
Depth to water		4.91			ft	Field Sampling
Groundwater Elevation		738.26			ft/msl	Field Sampling
Field pH		6.62			SU	Field Sampling
Field Conductivity		198			umhos/cm	Field Sampling
Field Temperature		7.8			Degrees C	Field Sampling
Field Turbidity		0.9			NTU	Field Sampling
Field Dissolved Oxygen		0.1			mg/L	Field Sampling
Field EH/ORP		39			millivolts	Field Sampling
Total Recoverable						
Barium		42	J	100	ug/L	6010C
Chromium		3.8	J	10	ug/L	6010C
Nickel		2.2	J	50	ug/L	6010C
Vanadium		5.3	J	25	ug/L	6010C
Silver		0.98	J	10	ug/L	6010C

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40178-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40225-3	**3406-MW08**					
Well Elevation		748.95			ft/msl	Field Sampling
Depth to water		5.64			ft	Field Sampling
Groundwater Elevation		743.31			ft/msl	Field Sampling
Field pH		5.38			SU	Field Sampling
Field Conductivity		62			umhos/cm	Field Sampling
Field Temperature		8.2			Degrees C	Field Sampling
Field Turbidity		6.4			NTU	Field Sampling
Field Dissolved Oxygen		0.5			mg/L	Field Sampling
Field EH/ORP		70			millivolts	Field Sampling
Total Recoverable						
Barium		85	J	100	ug/L	6010C
Chromium		1.9	J	10	ug/L	6010C
Vanadium		1.1	J	25	ug/L	6010C
Zinc		2.1	J	10	ug/L	6020A

METHOD SUMMARY

Client: Waste Management

Job Number: 280-40178-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Metals (ICP)	TAL DEN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Field Sampling	TAL DEN	EPA Field Sampling	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

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: 280-40178-1

Method	Analyst	Analyst ID
SW846 8260B	Dobransky, Michael E	MD
SW846 8260B	Moan, Matthew R	MRM
SW846 6010C	Bowen, Heidi E	HEB
SW846 6020A	Lill, Thomas E	TEL
EPA Field Sampling	Field, Sampler	FS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-40178-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-40178-1	3406-MW01	Water	03/20/2013 1206	03/21/2013 0930
280-40178-2	3406-MW02	Water	03/20/2013 0831	03/21/2013 0930
280-40178-3	3406-MW03	Water	03/20/2013 1100	03/21/2013 0930
280-40178-4	3406-MW04	Water	03/20/2013 1420	03/21/2013 0930
280-40178-5	3406-MW04D	Water	03/20/2013 1450	03/21/2013 0930
280-40178-6	3406-MW06	Water	03/20/2013 1237	03/21/2013 0930
280-40178-7	3406-MW07	Water	03/20/2013 1027	03/21/2013 0930
280-40178-8	3406-MW09R	Water	03/20/2013 1133	03/21/2013 0930
280-40178-9	3406-MW10	Water	03/20/2013 0958	03/21/2013 0930
280-40178-10	3406-MW11	Water	03/20/2013 0900	03/21/2013 0930
280-40178-11	3406-MW11D	Water	03/20/2013 0929	03/21/2013 0930
280-40178-12	3406-MW12	Water	03/20/2013 1346	03/21/2013 0930
280-40178-13	3406-MW12D	Water	03/20/2013 1315	03/21/2013 0930
280-40178-14TB	TRIP BLANK	Water	03/20/2013 0831	03/21/2013 0930
280-40225-1FB	3406-01FB	Water	03/21/2013 1115	03/22/2013 1000
280-40225-2	3406-MW05	Water	03/21/2013 0900	03/22/2013 1000
280-40225-3	3406-MW08	Water	03/21/2013 0820	03/22/2013 1000
280-40225-4TB	TRIP BLANK	Water	03/21/2013 0820	03/22/2013 1000

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-40178-1

Client Matrix: Water

Date Sampled: 03/20/2013 1206

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3378.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0829			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0829				

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: 280-40178-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-40178-1

Client Matrix: Water

Date Sampled: 03/20/2013 1206

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3378.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0829			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0829				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 127
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	95		77 - 120
Toluene-d8 (Surr)	100		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-40178-2

Client Matrix: Water

Date Sampled: 03/20/2013 0831

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3387.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1136			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1136				

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: 280-40178-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-40178-2

Client Matrix: Water

Date Sampled: 03/20/2013 0831

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3387.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1136			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1136				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	99		77 - 120
Toluene-d8 (Surr)	93		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-40178-3

Client Matrix: Water

Date Sampled: 03/20/2013 1100

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3388.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1157			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1157				

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: 280-40178-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-40178-3

Client Matrix: Water

Date Sampled: 03/20/2013 1100

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3388.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1157			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1157				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120
Toluene-d8 (Surr)	94		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-40178-4

Client Matrix: Water

Date Sampled: 03/20/2013 1420

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3389.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1218			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1218				

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: 280-40178-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-40178-4

Client Matrix: Water

Date Sampled: 03/20/2013 1420

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3389.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1218			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1218				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120
Toluene-d8 (Surr)	96		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-40178-5

Client Matrix: Water

Date Sampled: 03/20/2013 1450

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3390.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1238			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1238				

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: 280-40178-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-40178-5

Client Matrix: Water

Date Sampled: 03/20/2013 1450

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3390.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1238			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1238				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120
Toluene-d8 (Surr)	94		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-40178-6

Client Matrix: Water

Date Sampled: 03/20/2013 1237

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3391.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1259			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1259				

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: 280-40178-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-40178-6

Client Matrix: Water

Date Sampled: 03/20/2013 1237

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3391.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1259			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1259				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 127
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120
Toluene-d8 (Surr)	93		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-40178-7

Client Matrix: Water

Date Sampled: 03/20/2013 1027

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3392.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1320			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1320				

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: 280-40178-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-40178-7

Client Matrix: Water

Date Sampled: 03/20/2013 1027

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3392.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1320			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1320				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	99		77 - 120
Toluene-d8 (Surr)	90		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-40178-8

Client Matrix: Water

Date Sampled: 03/20/2013 1133

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3393.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1341			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1341				

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	0.80	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	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: 280-40178-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-40178-8

Client Matrix: Water

Date Sampled: 03/20/2013 1133

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3393.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1341			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1341				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	92		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120
Toluene-d8 (Surr)	91		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-40178-9

Client Matrix: Water

Date Sampled: 03/20/2013 0958

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3394.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1402			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1402				

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: 280-40178-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-40178-9

Client Matrix: Water

Date Sampled: 03/20/2013 0958

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3394.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1402			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1402				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 127
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120
Toluene-d8 (Surr)	97		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-40178-10

Client Matrix: Water

Date Sampled: 03/20/2013 0900

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3395.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1423			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1423				

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	0.41	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	0.24	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: 280-40178-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-40178-10

Client Matrix: Water

Date Sampled: 03/20/2013 0900

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3395.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1423			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1423				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 127
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	108		77 - 120
Toluene-d8 (Surr)	98		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-40178-11

Client Matrix: Water

Date Sampled: 03/20/2013 0929

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3396.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1444			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1444				

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: 280-40178-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-40178-11

Client Matrix: Water

Date Sampled: 03/20/2013 0929

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3396.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1444			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1444				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 127
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120
Toluene-d8 (Surr)	94		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-40178-12

Client Matrix: Water

Date Sampled: 03/20/2013 1346

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3397.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1505			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1505				

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: 280-40178-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-40178-12

Client Matrix: Water

Date Sampled: 03/20/2013 1346

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3397.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1505			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1505				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 127
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	107		77 - 120
Toluene-d8 (Surr)	97		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-40178-13

Client Matrix: Water

Date Sampled: 03/20/2013 1315

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3398.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1525			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1525				

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: 280-40178-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-40178-13

Client Matrix: Water

Date Sampled: 03/20/2013 1315

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3398.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1525			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1525				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		70 - 127
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120
Toluene-d8 (Surr)	92		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-40178-14TB

Client Matrix: Water

Date Sampled: 03/20/2013 0831

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3399.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1546			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1546				

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: 280-40178-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-40178-14TB

Client Matrix: Water

Date Sampled: 03/20/2013 0831

Date Received: 03/21/2013 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3399.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1546			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1546				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		70 - 127
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	104		77 - 120
Toluene-d8 (Surr)	96		80 - 125

Client: Waste Management

Job Number: 280-40178-1

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

Lab Sample ID: 280-40225-1FB

Client Matrix: Water

Date Sampled: 03/21/2013 1115

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3405.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1901			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1901				

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: 280-40178-1

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

Lab Sample ID: 280-40225-1FB

Client Matrix: Water

Date Sampled: 03/21/2013 1115

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3405.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1901			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1901				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 127
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120
Toluene-d8 (Surr)	97		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-40225-2

Client Matrix: Water

Date Sampled: 03/21/2013 0900

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3408.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 2004			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 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	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: 280-40178-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-40225-2

Client Matrix: Water

Date Sampled: 03/21/2013 0900

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3408.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 2004			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 2004				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120
Toluene-d8 (Surr)	94		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-40225-3

Client Matrix: Water

Date Sampled: 03/21/2013 0820

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3409.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 2024			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 2024				

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: 280-40178-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-40225-3

Client Matrix: Water

Date Sampled: 03/21/2013 0820

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3409.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 2024			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 2024				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		70 - 127
4-Bromofluorobenzene (Surr)	99		78 - 120
Dibromofluoromethane (Surr)	107		77 - 120
Toluene-d8 (Surr)	99		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-40225-4TB

Client Matrix: Water

Date Sampled: 03/21/2013 0820

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3410.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 2045			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 2045				

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: 280-40178-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-40225-4TB

Client Matrix: Water

Date Sampled: 03/21/2013 0820

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3410.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 2045			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 2045				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 127
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120
Toluene-d8 (Surr)	97		80 - 125

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-40178-1

Client Matrix: Water

Date Sampled: 03/20/2013 1206

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167198	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0529			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	49	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	0.94	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	1.3	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166228	Lab File ID:	139AREF.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0145			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	0.77	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-40178-2

Client Matrix: Water

Date Sampled: 03/20/2013 0831

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167198	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0532			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	140	B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166228	Lab File ID:	144SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0159			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.41	J	0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	4.0	J	2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-40178-3

Client Matrix: Water

Date Sampled: 03/20/2013 1100

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167198	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0544			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	19	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	13		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	9.7	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166228	Lab File ID:	145SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0202			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	0.67	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-40178-4

Client Matrix: Water

Date Sampled: 03/20/2013 1420

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167198	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0546			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	68	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	1.5	J	1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	1.1	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166228	Lab File ID:	146SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0205			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	7.7	J	2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-40178-5

Client Matrix: Water

Date Sampled: 03/20/2013 1450

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167198	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0558			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	47	J B	0.58	100
Beryllium	0.49	J	0.47	1.0
Chromium	9.8	J	0.66	10
Cobalt	ND		1.2	10
Lead	4.1	J	2.6	10
Nickel	1.4	J	1.3	50
Vanadium	8.2	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166228	Lab File ID:	150SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0217			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	0.63	J	0.33	10
Cadmium	ND		0.10	1.0
Copper	1.0	J	0.56	10
Selenium	ND		0.70	10
Thallium	0.070	J	0.050	5.5
Zinc	19		2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-40178-6

Client Matrix: Water

Date Sampled: 03/20/2013 1237

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167198	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0601			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	44	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.9	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	1.1	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166228	Lab File ID:	151SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0220			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	6.2	J	2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-40178-7

Client Matrix: Water

Date Sampled: 03/20/2013 1027

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167198	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0603			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	8.1	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.2	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	8.6	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166228	Lab File ID:	152SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0223			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	7.4	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	16		2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-40178-8

Client Matrix: Water

Date Sampled: 03/20/2013 1133

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167198	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0606			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	11	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	1.5	J	1.3	50
Vanadium	8.7	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166228	Lab File ID:	153SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0226			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	3.3	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	4.9	J	2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-40178-9

Client Matrix: Water

Date Sampled: 03/20/2013 0958

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167198	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0608			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	12	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	3.3	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	1.7	J	1.3	50
Vanadium	3.8	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166228	Lab File ID:	154SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0229			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	2.3	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	8.2	J	2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-40178-10

Client Matrix: Water

Date Sampled: 03/20/2013 0900

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167198	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0610			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	71	J B	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	2.2	J	1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	2.0	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166228	Lab File ID:	155SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0232			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	1.2	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	12		2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-40178-11

Client Matrix: Water

Date Sampled: 03/20/2013 0929

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167352	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166998	Lab File ID:	26A3032913.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2148			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	26	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	5.6	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	9.7	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-167173	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-167000	Lab File ID:	080SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2301			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	10		0.56	10
Selenium	ND		0.70	10
Thallium	0.059	J	0.050	5.5
Zinc	8.1	J	2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-40178-12

Client Matrix: Water

Date Sampled: 03/20/2013 1346

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167352	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166998	Lab File ID:	26A3032913.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2209			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	21	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.2	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	3.4	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-167173	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-167000	Lab File ID:	081AREF.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2304			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	1.0	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	2.4	J	2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-40178-13

Client Matrix: Water

Date Sampled: 03/20/2013 1315

Date Received: 03/21/2013 0930

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167352	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166998	Lab File ID:	26A3032913.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2211			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	7.0	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.0	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	2.8	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-167173	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-167000	Lab File ID:	086SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2319			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	2.4	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	4.6	J	2.0	10

Client: Waste Management

Job Number: 280-40178-1

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

Lab Sample ID: 280-40225-1FB

Client Matrix: Water

Date Sampled: 03/21/2013 1115

Date Received: 03/22/2013 1000

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167248	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 1008			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	2.2	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166410	Lab File ID:	175SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0331			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-40225-2

Client Matrix: Water

Date Sampled: 03/21/2013 0900

Date Received: 03/22/2013 1000

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167248	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 1011			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	42	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	3.8	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	2.2	J	1.3	50
Vanadium	5.3	J	1.1	25
Silver	0.98	J	0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166410	Lab File ID:	176SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0334			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Client: Waste Management

Job Number: 280-40178-1

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-40225-3

Client Matrix: Water

Date Sampled: 03/21/2013 0820

Date Received: 03/22/2013 1000

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167248	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 1013			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	85	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.9	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	1.1	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166410	Lab File ID:	177SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0337			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	2.1	J	2.0	10

Field Service / Mobile Lab

Client Sample ID: **3406-MW01**

Lab Sample ID: 280-40178-1

Client Matrix: Water

Date Sampled: 03/20/2013 1206

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	823.93		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1206
Depth to water	45.13		ft	1.0	Field Sampling	280-166154	03/20/2013 1206
Groundwater Elevation	778.80		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1206
Field pH	5.81		SU	1.0	Field Sampling	280-166154	03/20/2013 1206
Field Conductivity	53		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 1206
Field Temperature	14.4		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 1206
Field Turbidity	1.3		NTU	1.0	Field Sampling	280-166154	03/20/2013 1206
Field Dissolved Oxygen	3.6		mg/L	1.0	Field Sampling	280-166154	03/20/2013 1206
Field EH/ORP	146		millivolts	1.0	Field Sampling	280-166154	03/20/2013 1206

Field Service / Mobile Lab

Client Sample ID: **3406-MW02**

Lab Sample ID: 280-40178-2

Client Matrix: Water

Date Sampled: 03/20/2013 0831

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	778.04		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 0831
Depth to water	28.52		ft	1.0	Field Sampling	280-166154	03/20/2013 0831
Groundwater Elevation	749.52		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 0831
Field pH	5.06		SU	1.0	Field Sampling	280-166154	03/20/2013 0831
Field Conductivity	120		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 0831
Field Temperature	13.9		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 0831
Field Turbidity	0.8		NTU	1.0	Field Sampling	280-166154	03/20/2013 0831
Field Dissolved Oxygen	1.1		mg/L	1.0	Field Sampling	280-166154	03/20/2013 0831
Field EH/ORP	172		millivolts	1.0	Field Sampling	280-166154	03/20/2013 0831

Field Service / Mobile Lab

Client Sample ID: **3406-MW03**

Lab Sample ID: 280-40178-3

Client Matrix: Water

Date Sampled: 03/20/2013 1100

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	770.08		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1100
Depth to water	25.99		ft	1.0	Field Sampling	280-166154	03/20/2013 1100
Groundwater Elevation	744.09		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1100
Field pH	5.87		SU	1.0	Field Sampling	280-166154	03/20/2013 1100
Field Conductivity	123		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 1100
Field Temperature	13.7		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 1100
Field Turbidity	2.4		NTU	1.0	Field Sampling	280-166154	03/20/2013 1100
Field Dissolved Oxygen	4.3		mg/L	1.0	Field Sampling	280-166154	03/20/2013 1100
Field EH/ORP	47		millivolts	1.0	Field Sampling	280-166154	03/20/2013 1100

Field Service / Mobile Lab

Client Sample ID: **3406-MW04**

Lab Sample ID: 280-40178-4

Client Matrix: Water

Date Sampled: 03/20/2013 1420

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	756.92		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1420
Depth to water	12.70		ft	1.0	Field Sampling	280-166154	03/20/2013 1420
Groundwater Elevation	744.22		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1420
Field pH	5.08		SU	1.0	Field Sampling	280-166154	03/20/2013 1420
Field Conductivity	68		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 1420
Field Temperature	15.2		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 1420
Field Turbidity	3.1		NTU	1.0	Field Sampling	280-166154	03/20/2013 1420
Field Dissolved Oxygen	0.5		mg/L	1.0	Field Sampling	280-166154	03/20/2013 1420
Field EH/ORP	117		millivolts	1.0	Field Sampling	280-166154	03/20/2013 1420

Field Service / Mobile Lab

Client Sample ID: **3406-MW04D**

Lab Sample ID: 280-40178-5

Client Matrix: Water

Date Sampled: 03/20/2013 1450

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	757.33		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1450
Depth to water	13.18		ft	1.0	Field Sampling	280-166154	03/20/2013 1450
Groundwater Elevation	744.15		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1450
Field pH	5.80		SU	1.0	Field Sampling	280-166154	03/20/2013 1450
Field Conductivity	78		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 1450
Field Temperature	15.6		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 1450
Field Turbidity	18.7		NTU	1.0	Field Sampling	280-166154	03/20/2013 1450
Field Dissolved Oxygen	4.6		mg/L	1.0	Field Sampling	280-166154	03/20/2013 1450
Field EH/ORP	53		millivolts	1.0	Field Sampling	280-166154	03/20/2013 1450

Field Service / Mobile Lab

Client Sample ID: **3406-MW06**

Lab Sample ID: 280-40178-6

Client Matrix: Water

Date Sampled: 03/20/2013 1237

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	778.04		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1237
Depth to water	23.45		ft	1.0	Field Sampling	280-166154	03/20/2013 1237
Groundwater Elevation	754.59		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1237
Field pH	5.28		SU	1.0	Field Sampling	280-166154	03/20/2013 1237
Field Conductivity	28		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 1237
Field Temperature	14.5		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 1237
Field Turbidity	2.3		NTU	1.0	Field Sampling	280-166154	03/20/2013 1237
Field Dissolved Oxygen	1.2		mg/L	1.0	Field Sampling	280-166154	03/20/2013 1237
Field EH/ORP	146		millivolts	1.0	Field Sampling	280-166154	03/20/2013 1237

Field Service / Mobile Lab

Client Sample ID: **3406-MW07**

Lab Sample ID: 280-40178-7

Client Matrix: Water

Date Sampled: 03/20/2013 1027

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	771.57		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1027
Depth to water	24.71		ft	1.0	Field Sampling	280-166154	03/20/2013 1027
Groundwater Elevation	746.86		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1027
Field pH	5.84		SU	1.0	Field Sampling	280-166154	03/20/2013 1027
Field Conductivity	93		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 1027
Field Temperature	13.7		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 1027
Field Turbidity	8.1		NTU	1.0	Field Sampling	280-166154	03/20/2013 1027
Field Dissolved Oxygen	5.9		mg/L	1.0	Field Sampling	280-166154	03/20/2013 1027
Field EH/ORP	83		millivolts	1.0	Field Sampling	280-166154	03/20/2013 1027

Field Service / Mobile Lab

Client Sample ID: **3406-MW09R**

Lab Sample ID: 280-40178-8 Date Sampled: 03/20/2013 1133
Client Matrix: Water Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	764.95		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1133
Depth to water	26.67		ft	1.0	Field Sampling	280-166154	03/20/2013 1133
Groundwater Elevation	738.28		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1133
Field pH	5.93		SU	1.0	Field Sampling	280-166154	03/20/2013 1133
Field Conductivity	250		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 1133
Field Temperature	15.1		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 1133
Field Turbidity	0.8		NTU	1.0	Field Sampling	280-166154	03/20/2013 1133
Field Dissolved Oxygen	0.0		mg/L	1.0	Field Sampling	280-166154	03/20/2013 1133
Field EH/ORP	22		millivolts	1.0	Field Sampling	280-166154	03/20/2013 1133

Field Service / Mobile Lab

Client Sample ID: **3406-MW10**

Lab Sample ID: 280-40178-9

Client Matrix: Water

Date Sampled: 03/20/2013 0958

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	777.20		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 0958
Depth to water	30.04		ft	1.0	Field Sampling	280-166154	03/20/2013 0958
Groundwater Elevation	747.16		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 0958
Field pH	5.83		SU	1.0	Field Sampling	280-166154	03/20/2013 0958
Field Conductivity	100		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 0958
Field Temperature	13.0		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 0958
Field Turbidity	5.7		NTU	1.0	Field Sampling	280-166154	03/20/2013 0958
Field Dissolved Oxygen	3.2		mg/L	1.0	Field Sampling	280-166154	03/20/2013 0958
Field EH/ORP	165		millivolts	1.0	Field Sampling	280-166154	03/20/2013 0958

Field Service / Mobile Lab

Client Sample ID: **3406-MW11**

Lab Sample ID: 280-40178-10

Client Matrix: Water

Date Sampled: 03/20/2013 0900

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	776.80		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 0900
Depth to water	28.34		ft	1.0	Field Sampling	280-166154	03/20/2013 0900
Groundwater Elevation	748.46		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 0900
Field pH	5.48		SU	1.0	Field Sampling	280-166154	03/20/2013 0900
Field Conductivity	127		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 0900
Field Temperature	13.5		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 0900
Field Turbidity	3.7		NTU	1.0	Field Sampling	280-166154	03/20/2013 0900
Field Dissolved Oxygen	1.0		mg/L	1.0	Field Sampling	280-166154	03/20/2013 0900
Field EH/ORP	140		millivolts	1.0	Field Sampling	280-166154	03/20/2013 0900

Field Service / Mobile Lab

Client Sample ID: **3406-MW11D**

Lab Sample ID: 280-40178-11

Client Matrix: Water

Date Sampled: 03/20/2013 0929

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	776.36		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 0929
Depth to water	28.31		ft	1.0	Field Sampling	280-166154	03/20/2013 0929
Groundwater Elevation	748.05		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 0929
Field pH	6.33		SU	1.0	Field Sampling	280-166154	03/20/2013 0929
Field Conductivity	40		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 0929
Field Temperature	12.9		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 0929
Field Turbidity	6.0		NTU	1.0	Field Sampling	280-166154	03/20/2013 0929
Field Dissolved Oxygen	3.3		mg/L	1.0	Field Sampling	280-166154	03/20/2013 0929
Field EH/ORP	94		millivolts	1.0	Field Sampling	280-166154	03/20/2013 0929

Field Service / Mobile Lab

Client Sample ID: **3406-MW12**

Lab Sample ID: 280-40178-12

Client Matrix: Water

Date Sampled: 03/20/2013 1346

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	751.48		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1346
Depth to water	6.23		ft	1.0	Field Sampling	280-166154	03/20/2013 1346
Groundwater Elevation	745.25		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1346
Field pH	5.79		SU	1.0	Field Sampling	280-166154	03/20/2013 1346
Field Conductivity	141		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 1346
Field Temperature	13.8		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 1346
Field Turbidity	4.6		NTU	1.0	Field Sampling	280-166154	03/20/2013 1346
Field Dissolved Oxygen	0.7		mg/L	1.0	Field Sampling	280-166154	03/20/2013 1346
Field EH/ORP	59		millivolts	1.0	Field Sampling	280-166154	03/20/2013 1346

Field Service / Mobile Lab

Client Sample ID: **3406-MW12D**

Lab Sample ID: 280-40178-13

Client Matrix: Water

Date Sampled: 03/20/2013 1315

Date Received: 03/21/2013 0930

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	751.48		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1315
Depth to water	5.43		ft	1.0	Field Sampling	280-166154	03/20/2013 1315
Groundwater Elevation	746.05		ft/msl	1.0	Field Sampling	280-166154	03/20/2013 1315
Field pH	6.67		SU	1.0	Field Sampling	280-166154	03/20/2013 1315
Field Conductivity	228		umhos/cm	1.0	Field Sampling	280-166154	03/20/2013 1315
Field Temperature	14.5		Degrees C	1.0	Field Sampling	280-166154	03/20/2013 1315
Field Turbidity	5.8		NTU	1.0	Field Sampling	280-166154	03/20/2013 1315
Field Dissolved Oxygen	0.6		mg/L	1.0	Field Sampling	280-166154	03/20/2013 1315
Field EH/ORP	50		millivolts	1.0	Field Sampling	280-166154	03/20/2013 1315

Field Service / Mobile Lab

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

Lab Sample ID: 280-40225-1FB

Client Matrix: Water

Date Sampled: 03/21/2013 1115

Date Received: 03/22/2013 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	6.93		SU	1.0	Field Sampling	280-166267	03/21/2013 1115
Field Conductivity	2		umhos/cm	1.0	Field Sampling	280-166267	03/21/2013 1115
Field Temperature	8.4		Degrees C	1.0	Field Sampling	280-166267	03/21/2013 1115
Field Turbidity	0.0		NTU	1.0	Field Sampling	280-166267	03/21/2013 1115
Field Dissolved Oxygen	2.2		mg/L	1.0	Field Sampling	280-166267	03/21/2013 1115
Field EH/ORP	36		millivolts	1.0	Field Sampling	280-166267	03/21/2013 1115

Field Service / Mobile Lab

Client Sample ID: **3406-MW05**

Lab Sample ID: 280-40225-2

Client Matrix: Water

Date Sampled: 03/21/2013 0900

Date Received: 03/22/2013 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	743.17		ft/msl	1.0	Field Sampling	280-166267	03/21/2013 0900
Depth to water	4.91		ft	1.0	Field Sampling	280-166267	03/21/2013 0900
Groundwater Elevation	738.26		ft/msl	1.0	Field Sampling	280-166267	03/21/2013 0900
Field pH	6.62		SU	1.0	Field Sampling	280-166267	03/21/2013 0900
Field Conductivity	198		umhos/cm	1.0	Field Sampling	280-166267	03/21/2013 0900
Field Temperature	7.8		Degrees C	1.0	Field Sampling	280-166267	03/21/2013 0900
Field Turbidity	0.9		NTU	1.0	Field Sampling	280-166267	03/21/2013 0900
Field Dissolved Oxygen	0.1		mg/L	1.0	Field Sampling	280-166267	03/21/2013 0900
Field EH/ORP	39		millivolts	1.0	Field Sampling	280-166267	03/21/2013 0900

Field Service / Mobile Lab

Client Sample ID: **3406-MW08**

Lab Sample ID: 280-40225-3

Client Matrix: Water

Date Sampled: 03/21/2013 0820

Date Received: 03/22/2013 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Well Elevation	748.95		ft/msl	1.0	Field Sampling	280-166267	03/21/2013 0820
Depth to water	5.64		ft	1.0	Field Sampling	280-166267	03/21/2013 0820
Groundwater Elevation	743.31		ft/msl	1.0	Field Sampling	280-166267	03/21/2013 0820
Field pH	5.38		SU	1.0	Field Sampling	280-166267	03/21/2013 0820
Field Conductivity	62		umhos/cm	1.0	Field Sampling	280-166267	03/21/2013 0820
Field Temperature	8.2		Degrees C	1.0	Field Sampling	280-166267	03/21/2013 0820
Field Turbidity	6.4		NTU	1.0	Field Sampling	280-166267	03/21/2013 0820
Field Dissolved Oxygen	0.5		mg/L	1.0	Field Sampling	280-166267	03/21/2013 0820
Field EH/ORP	70		millivolts	1.0	Field Sampling	280-166267	03/21/2013 0820

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-40178-1

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.
	F	RPD of the MS and MSD exceeds the control limits
Metals		
	B	Compound was found in the blank and sample.
	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.

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-40178-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-166759					
LCS 280-166759/4	Lab Control Sample	T	Water	8260B	
MB 280-166759/5	Method Blank	T	Water	8260B	
280-40178-1	3406-MW01	T	Water	8260B	
280-40178-1MS	Matrix Spike	T	Water	8260B	
280-40178-1MSD	Matrix Spike Duplicate	T	Water	8260B	
280-40178-2	3406-MW02	T	Water	8260B	
280-40178-3	3406-MW03	T	Water	8260B	
280-40178-4	3406-MW04	T	Water	8260B	
280-40178-5	3406-MW04D	T	Water	8260B	
280-40178-6	3406-MW06	T	Water	8260B	
280-40178-7	3406-MW07	T	Water	8260B	
280-40178-8	3406-MW09R	T	Water	8260B	
280-40178-9	3406-MW10	T	Water	8260B	
280-40178-10	3406-MW11	T	Water	8260B	
280-40178-11	3406-MW11D	T	Water	8260B	
280-40178-12	3406-MW12	T	Water	8260B	
280-40178-13	3406-MW12D	T	Water	8260B	
280-40178-14TB	TRIP BLANK	T	Water	8260B	
Analysis Batch:280-166922					
LCS 280-166922/4	Lab Control Sample	T	Water	8260B	
MB 280-166922/5	Method Blank	T	Water	8260B	
280-40225-1FB	3406-01FB	T	Water	8260B	
280-40225-1MS	Matrix Spike	T	Water	8260B	
280-40225-1MSD	Matrix Spike Duplicate	T	Water	8260B	
280-40225-2	3406-MW05	T	Water	8260B	
280-40225-3	3406-MW08	T	Water	8260B	
280-40225-4TB	TRIP BLANK	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-40178-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-166228					
LCS 280-166228/2-A	Lab Control Sample	R	Water	3005A	
MB 280-166228/1-A	Method Blank	R	Water	3005A	
280-40178-1	3406-MW01	R	Water	3005A	
280-40178-1MS	Matrix Spike	R	Water	3005A	
280-40178-1MSD	Matrix Spike Duplicate	R	Water	3005A	
280-40178-2	3406-MW02	R	Water	3005A	
280-40178-3	3406-MW03	R	Water	3005A	
280-40178-4	3406-MW04	R	Water	3005A	
280-40178-5	3406-MW04D	R	Water	3005A	
280-40178-6	3406-MW06	R	Water	3005A	
280-40178-7	3406-MW07	R	Water	3005A	
280-40178-8	3406-MW09R	R	Water	3005A	
280-40178-9	3406-MW10	R	Water	3005A	
280-40178-10	3406-MW11	R	Water	3005A	
Prep Batch: 280-166233					
LCS 280-166233/2-A	Lab Control Sample	R	Water	3005A	
MB 280-166233/1-A	Method Blank	R	Water	3005A	
280-40178-1	3406-MW01	R	Water	3005A	
280-40178-2	3406-MW02	R	Water	3005A	
280-40178-2MS	Matrix Spike	R	Water	3005A	
280-40178-2MSD	Matrix Spike Duplicate	R	Water	3005A	
280-40178-3	3406-MW03	R	Water	3005A	
280-40178-4	3406-MW04	R	Water	3005A	
280-40178-5	3406-MW04D	R	Water	3005A	
280-40178-6	3406-MW06	R	Water	3005A	
280-40178-7	3406-MW07	R	Water	3005A	
280-40178-8	3406-MW09R	R	Water	3005A	
280-40178-9	3406-MW10	R	Water	3005A	
280-40178-10	3406-MW11	R	Water	3005A	
Prep Batch: 280-166410					
LCS 280-166410/2-A	Lab Control Sample	R	Water	3005A	
MB 280-166410/1-A	Method Blank	R	Water	3005A	
280-40223-A-1-D MS	Matrix Spike	R	Water	3005A	
280-40223-A-1-E MSD	Matrix Spike Duplicate	R	Water	3005A	
280-40225-1FB	3406-01FB	R	Water	3005A	
280-40225-2	3406-MW05	R	Water	3005A	
280-40225-3	3406-MW08	R	Water	3005A	

Client: Waste Management

Job Number: 280-40178-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-166413					
LCS 280-166413/2-A	Lab Control Sample	R	Water	3005A	
MB 280-166413/1-A	Method Blank	R	Water	3005A	
280-40225-1FB	3406-01FB	R	Water	3005A	
280-40225-2	3406-MW05	R	Water	3005A	
280-40225-3	3406-MW08	R	Water	3005A	
280-40225-3MS	Matrix Spike	R	Water	3005A	
280-40225-3MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-166804					
LCS 280-166228/2-A	Lab Control Sample	R	Water	6020A	280-166228
MB 280-166228/1-A	Method Blank	R	Water	6020A	280-166228
LCS 280-166410/2-A	Lab Control Sample	R	Water	6020A	280-166410
MB 280-166410/1-A	Method Blank	R	Water	6020A	280-166410
280-40178-1	3406-MW01	R	Water	6020A	280-166228
280-40178-1MS	Matrix Spike	R	Water	6020A	280-166228
280-40178-1MSD	Matrix Spike Duplicate	R	Water	6020A	280-166228
280-40178-2	3406-MW02	R	Water	6020A	280-166228
280-40178-3	3406-MW03	R	Water	6020A	280-166228
280-40178-4	3406-MW04	R	Water	6020A	280-166228
280-40178-5	3406-MW04D	R	Water	6020A	280-166228
280-40178-6	3406-MW06	R	Water	6020A	280-166228
280-40178-7	3406-MW07	R	Water	6020A	280-166228
280-40178-8	3406-MW09R	R	Water	6020A	280-166228
280-40178-9	3406-MW10	R	Water	6020A	280-166228
280-40178-10	3406-MW11	R	Water	6020A	280-166228
280-40223-A-1-D MS	Matrix Spike	R	Water	6020A	280-166410
280-40223-A-1-E MSD	Matrix Spike Duplicate	R	Water	6020A	280-166410
280-40225-1FB	3406-01FB	R	Water	6020A	280-166410
280-40225-2	3406-MW05	R	Water	6020A	280-166410
280-40225-3	3406-MW08	R	Water	6020A	280-166410
Prep Batch: 280-166998					
LCS 280-166998/2-A	Lab Control Sample	R	Water	3005A	
LCSD 280-166998/3-A	Lab Control Sample Duplicate	R	Water	3005A	
MB 280-166998/1-A	Method Blank	R	Water	3005A	
280-40178-11	3406-MW11D	R	Water	3005A	
280-40178-11MS	Matrix Spike	R	Water	3005A	
280-40178-11MSD	Matrix Spike Duplicate	R	Water	3005A	
280-40178-12	3406-MW12	R	Water	3005A	
280-40178-13	3406-MW12D	R	Water	3005A	

Client: Waste Management

Job Number: 280-40178-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-167000					
LCS 280-167000/2-A	Lab Control Sample	R	Water	3005A	
LCSD 280-167000/3-A	Lab Control Sample Duplicate	R	Water	3005A	
MB 280-167000/1-A	Method Blank	R	Water	3005A	
280-40178-11	3406-MW11D	R	Water	3005A	
280-40178-12	3406-MW12	R	Water	3005A	
280-40178-12MS	Matrix Spike	R	Water	3005A	
280-40178-12MSD	Matrix Spike Duplicate	R	Water	3005A	
280-40178-13	3406-MW12D	R	Water	3005A	
Analysis Batch:280-167173					
LCS 280-167000/2-A	Lab Control Sample	R	Water	6020A	280-167000
LCSD 280-167000/3-A	Lab Control Sample Duplicate	R	Water	6020A	280-167000
MB 280-167000/1-A	Method Blank	R	Water	6020A	280-167000
280-40178-11	3406-MW11D	R	Water	6020A	280-167000
280-40178-12	3406-MW12	R	Water	6020A	280-167000
280-40178-12MS	Matrix Spike	R	Water	6020A	280-167000
280-40178-12MSD	Matrix Spike Duplicate	R	Water	6020A	280-167000
280-40178-13	3406-MW12D	R	Water	6020A	280-167000
Analysis Batch:280-167198					
LCS 280-166233/2-A	Lab Control Sample	R	Water	6010C	280-166233
MB 280-166233/1-A	Method Blank	R	Water	6010C	280-166233
280-40178-1	3406-MW01	R	Water	6010C	280-166233
280-40178-2	3406-MW02	R	Water	6010C	280-166233
280-40178-2MS	Matrix Spike	R	Water	6010C	280-166233
280-40178-2MSD	Matrix Spike Duplicate	R	Water	6010C	280-166233
280-40178-3	3406-MW03	R	Water	6010C	280-166233
280-40178-4	3406-MW04	R	Water	6010C	280-166233
280-40178-5	3406-MW04D	R	Water	6010C	280-166233
280-40178-6	3406-MW06	R	Water	6010C	280-166233
280-40178-7	3406-MW07	R	Water	6010C	280-166233
280-40178-8	3406-MW09R	R	Water	6010C	280-166233
280-40178-9	3406-MW10	R	Water	6010C	280-166233
280-40178-10	3406-MW11	R	Water	6010C	280-166233
Analysis Batch:280-167248					
LCS 280-166413/2-A	Lab Control Sample	R	Water	6010C	280-166413
MB 280-166413/1-A	Method Blank	R	Water	6010C	280-166413
280-40225-1FB	3406-01FB	R	Water	6010C	280-166413
280-40225-2	3406-MW05	R	Water	6010C	280-166413
280-40225-3	3406-MW08	R	Water	6010C	280-166413
280-40225-3MS	Matrix Spike	R	Water	6010C	280-166413
280-40225-3MSD	Matrix Spike Duplicate	R	Water	6010C	280-166413

Client: Waste Management

Job Number: 280-40178-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-167352					
LCS 280-166998/2-A	Lab Control Sample	R	Water	6010C	280-166998
LCSD 280-166998/3-A	Lab Control Sample Duplicate	R	Water	6010C	280-166998
MB 280-166998/1-A	Method Blank	R	Water	6010C	280-166998
280-40178-11	3406-MW11D	R	Water	6010C	280-166998
280-40178-11MS	Matrix Spike	R	Water	6010C	280-166998
280-40178-11MSD	Matrix Spike Duplicate	R	Water	6010C	280-166998
280-40178-12	3406-MW12	R	Water	6010C	280-166998
280-40178-13	3406-MW12D	R	Water	6010C	280-166998

Report Basis

R = Total Recoverable

Field Service / Mobile Lab				
Analysis Batch:280-166154				
280-40178-1	3406-MW01	T	Water	Field Sampling
280-40178-2	3406-MW02	T	Water	Field Sampling
280-40178-3	3406-MW03	T	Water	Field Sampling
280-40178-4	3406-MW04	T	Water	Field Sampling
280-40178-5	3406-MW04D	T	Water	Field Sampling
280-40178-6	3406-MW06	T	Water	Field Sampling
280-40178-7	3406-MW07	T	Water	Field Sampling
280-40178-8	3406-MW09R	T	Water	Field Sampling
280-40178-9	3406-MW10	T	Water	Field Sampling
280-40178-10	3406-MW11	T	Water	Field Sampling
280-40178-11	3406-MW11D	T	Water	Field Sampling
280-40178-12	3406-MW12	T	Water	Field Sampling
280-40178-13	3406-MW12D	T	Water	Field Sampling
Analysis Batch:280-166267				
280-40225-1FB	3406-01FB	T	Water	Field Sampling
280-40225-2	3406-MW05	T	Water	Field Sampling
280-40225-3	3406-MW08	T	Water	Field Sampling

Report Basis

T = Total

Client: Waste Management

Job Number: 280-40178-1

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
280-40178-1	3406-MW01	91	99	95	100
280-40178-2	3406-MW02	104	97	99	93
280-40178-3	3406-MW03	105	97	101	94
280-40178-4	3406-MW04	106	97	100	96
280-40178-5	3406-MW04D	109	98	102	94
280-40178-6	3406-MW06	108	98	102	93
280-40178-7	3406-MW07	105	94	99	90
280-40178-8	3406-MW09R	106	92	98	91
280-40178-9	3406-MW10	112	97	104	97
280-40178-10	3406-MW11	116	100	108	98
280-40178-11	3406-MW11D	110	96	102	94
280-40178-12	3406-MW12	113	98	107	97
280-40178-13	3406-MW12D	112	93	103	92
280-40178-14	TRIP BLANK	114	96	104	96
280-40225-1	3406-01FB	100	94	98	97
280-40225-2	3406-MW05	104	94	98	94
280-40225-3	3406-MW08	114	99	107	99
280-40225-4	TRIP BLANK	110	97	103	97
MB 280-166759/5		98	101	100	96
MB 280-166922/5		110	100	104	97
LCS 280-166759/4		99	96	101	98
LCS 280-166922/4		103	88	100	91
280-40178-1 MS	3406-MW01 MS	97	89	97	93
280-40225-1 MS	3406-01FB MS	103	90	99	96
280-40178-1 MSD	3406-MW01 MSD	101	93	101	96
280-40225-1 MSD	3406-01FB MSD	108	92	104	96

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: 280-40178-1

Method Blank - Batch: 280-166759

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-166759/5	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3377.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0808	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0808				
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	0.635	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: 280-40178-1

Method Blank - Batch: 280-166759

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-166759/5	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3377.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0808	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0808				
Leach Date:	N/A				

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

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	70 - 127
4-Bromofluorobenzene (Surr)	101	78 - 120
Dibromofluoromethane (Surr)	100	77 - 120
Toluene-d8 (Surr)	96	80 - 125

Lab Control Sample - Batch: 280-166759

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-166759/4	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3376.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0736	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0736				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	4.95	99	70 - 135	
1,1-Dichloroethane	5.00	4.79	96	75 - 135	J
1,1-Dichloroethene	5.00	5.31	106	71 - 136	
1,2-Dichloropropane	5.00	4.76	95	71 - 120	
1,3-Dichlorobenzene	5.00	4.70	94	74 - 135	
Benzene	5.00	4.77	95	74 - 135	
Bromodichloromethane	5.00	5.01	100	73 - 135	
Carbon tetrachloride	5.00	5.04	101	67 - 135	
Chlorobenzene	5.00	4.66	93	76 - 135	
Chloroform	5.00	4.82	96	76 - 120	J
Ethylbenzene	5.00	4.66	93	72 - 120	
Methylene Chloride	5.00	5.67	113	54 - 141	
Tetrachloroethene	5.00	4.81	96	70 - 135	
Toluene	5.00	4.72	94	73 - 120	
trans-1,2-Dichloroethene	5.00	5.01	100	75 - 135	
Trichloroethene	5.00	4.74	95	73 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	70 - 127
4-Bromofluorobenzene (Surr)	96	78 - 120
Dibromofluoromethane (Surr)	101	77 - 120
Toluene-d8 (Surr)	98	80 - 125

Client: Waste Management

Job Number: 280-40178-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166759

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-40178-1	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3380.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0910			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0910				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40178-1	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3381.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0931			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0931				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	94	93	70 - 135	1	20		
1,1-Dichloroethane	90	90	75 - 135	0	21	J	J
1,1-Dichloroethene	118	95	71 - 136	21	20		J F
1,2-Dichloropropane	88	91	71 - 120	3	20		
1,3-Dichlorobenzene	87	88	74 - 135	2	20		
Benzene	89	90	74 - 135	1	20		
Bromodichloromethane	92	94	73 - 135	2	20		
Carbon tetrachloride	98	96	67 - 135	2	21		
Chlorobenzene	86	89	76 - 135	4	20		
Chloroform	91	92	76 - 120	1	20	J	J
Ethylbenzene	87	88	72 - 120	1	26		
Methylene Chloride	86	86	54 - 141	0	20		
Tetrachloroethene	87	88	70 - 135	2	20		
Toluene	89	91	73 - 120	2	20		
trans-1,2-Dichloroethene	92	91	75 - 135	1	24	J	J
Trichloroethene	88	89	73 - 135	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	101	70 - 127
4-Bromofluorobenzene (Surr)	89	93	78 - 120
Dibromofluoromethane (Surr)	97	101	77 - 120
Toluene-d8 (Surr)	93	96	80 - 125

Client: Waste Management

Job Number: 280-40178-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166759

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-40178-1	Units: ug/L		MSD Lab Sample ID:	280-40178-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/27/2013 0910			Analysis Date:	03/27/2013 0931
Prep Date:	03/27/2013 0910			Prep Date:	03/27/2013 0931
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	4.71		4.66	
1,1-Dichloroethane	ND	5.00	5.00	4.51	J	4.50	J
1,1-Dichloroethene	ND	5.00	5.00	5.90		4.77	J F
1,2-Dichloropropane	ND	5.00	5.00	4.41		4.54	
1,3-Dichlorobenzene	ND	5.00	5.00	4.34		4.42	
Benzene	ND	5.00	5.00	4.44		4.49	
Bromodichloromethane	ND	5.00	5.00	4.62		4.72	
Carbon tetrachloride	ND	5.00	5.00	4.88		4.78	
Chlorobenzene	ND	5.00	5.00	4.30		4.46	
Chloroform	ND	5.00	5.00	4.55	J	4.61	J
Ethylbenzene	ND	5.00	5.00	4.35		4.38	
Methylene Chloride	ND	5.00	5.00	4.29		4.28	
Tetrachloroethene	ND	5.00	5.00	4.34		4.41	
Toluene	ND	5.00	5.00	4.43		4.53	
trans-1,2-Dichloroethene	ND	5.00	5.00	4.61	J	4.57	J
Trichloroethene	ND	5.00	5.00	4.38		4.46	

Client: Waste Management

Job Number: 280-40178-1

Method Blank - Batch: 280-166922

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-166922/5	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3377.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1824	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1824				
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: 280-40178-1

Method Blank - Batch: 280-166922

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-166922/5	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3377.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1824	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1824				
Leach Date:	N/A				

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

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110	70 - 127
4-Bromofluorobenzene (Surr)	100	78 - 120
Dibromofluoromethane (Surr)	104	77 - 120
Toluene-d8 (Surr)	97	80 - 125

Lab Control Sample - Batch: 280-166922

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-166922/4	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3376.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1803	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1803				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	4.29	86	70 - 135	
1,1-Dichloroethane	5.00	4.29	86	75 - 135	J
1,1-Dichloroethene	5.00	4.53	91	71 - 136	J
1,2-Dichloropropane	5.00	4.36	87	71 - 120	
1,3-Dichlorobenzene	5.00	4.15	83	74 - 135	
Benzene	5.00	4.24	85	74 - 135	
Bromodichloromethane	5.00	4.57	91	73 - 135	
Carbon tetrachloride	5.00	4.28	86	67 - 135	
Chlorobenzene	5.00	4.14	83	76 - 135	
Chloroform	5.00	4.44	89	76 - 120	J
Ethylbenzene	5.00	3.95	79	72 - 120	
Methylene Chloride	5.00	4.79	96	54 - 141	
Tetrachloroethene	5.00	3.92	78	70 - 135	
Toluene	5.00	4.20	84	73 - 120	
trans-1,2-Dichloroethene	5.00	4.36	87	75 - 135	J
Trichloroethene	5.00	4.08	82	73 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	70 - 127
4-Bromofluorobenzene (Surr)	88	78 - 120
Dibromofluoromethane (Surr)	100	77 - 120
Toluene-d8 (Surr)	91	80 - 125

Client: Waste Management

Job Number: 280-40178-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166922

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-40225-1	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3406.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1922			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1922				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40225-1	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3407.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1943			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1943				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	94	90	70 - 135	4	20		
1,1-Dichloroethane	89	87	75 - 135	2	21	J	J
1,1-Dichloroethene	93	94	71 - 136	1	20	J	J
1,2-Dichloropropane	88	88	71 - 120	1	20		
1,3-Dichlorobenzene	87	83	74 - 135	6	20		
Benzene	89	86	74 - 135	3	20		
Bromodichloromethane	93	93	73 - 135	0	20		
Carbon tetrachloride	98	94	67 - 135	5	21		
Chlorobenzene	87	84	76 - 135	4	20		
Chloroform	93	91	76 - 120	3	20	J	J
Ethylbenzene	86	82	72 - 120	5	26		
Methylene Chloride	86	89	54 - 141	3	20		
Tetrachloroethene	87	83	70 - 135	5	20		
Toluene	89	88	73 - 120	1	20		
trans-1,2-Dichloroethene	91	88	75 - 135	3	24	J	J
Trichloroethene	88	86	73 - 135	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	108	70 - 127
4-Bromofluorobenzene (Surr)	90	92	78 - 120
Dibromofluoromethane (Surr)	99	104	77 - 120
Toluene-d8 (Surr)	96	96	80 - 125

Client: Waste Management

Job Number: 280-40178-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166922

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-40225-1	Units: ug/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/27/2013 1922		
Prep Date:	03/27/2013 1922		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40225-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/27/2013 1943
Prep Date:	03/27/2013 1943
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	4.71		4.51	
1,1-Dichloroethane	ND	5.00	5.00	4.47	J	4.37	J
1,1-Dichloroethene	ND	5.00	5.00	4.65	J	4.69	J
1,2-Dichloropropane	ND	5.00	5.00	4.40		4.38	
1,3-Dichlorobenzene	ND	5.00	5.00	4.37		4.14	
Benzene	ND	5.00	5.00	4.46		4.31	
Bromodichloromethane	ND	5.00	5.00	4.64		4.63	
Carbon tetrachloride	ND	5.00	5.00	4.91		4.69	
Chlorobenzene	ND	5.00	5.00	4.36		4.20	
Chloroform	ND	5.00	5.00	4.66	J	4.54	J
Ethylbenzene	ND	5.00	5.00	4.30		4.09	
Methylene Chloride	ND	5.00	5.00	4.32		4.46	
Tetrachloroethene	ND	5.00	5.00	4.37		4.15	
Toluene	ND	5.00	5.00	4.44		4.39	
trans-1,2-Dichloroethene	ND	5.00	5.00	4.54	J	4.39	J
Trichloroethene	ND	5.00	5.00	4.39		4.28	

Client: Waste Management

Job Number: 280-40178-1

Method Blank - Batch: 280-166233

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-166233/1-A	Analysis Batch:	280-167198	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0525	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	1.20	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

Lab Control Sample - Batch: 280-166233

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-166233/2-A	Analysis Batch:	280-167198	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0527	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2110	106	90 - 112	
Beryllium	50.0	49.6	99	89 - 113	
Chromium	200	204	102	90 - 113	
Cobalt	500	504	101	89 - 111	
Lead	500	514	103	89 - 110	
Nickel	500	505	101	89 - 111	
Vanadium	500	518	104	90 - 111	
Silver	50.0	54.7	109	86 - 115	

Client: Waste Management

Job Number: 280-40178-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166233

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40178-2	Analysis Batch:	280-167198	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0537			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40178-2	Analysis Batch:	280-167198	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166233	Lab File ID:	26d032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0539			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	104	106	85 - 120	2	20		
Beryllium	97	99	79 - 121	2	20		
Chromium	101	103	73 - 135	2	20		
Cobalt	99	101	82 - 119	2	20		
Lead	101	103	89 - 121	2	20		
Nickel	99	101	84 - 120	2	20		
Vanadium	102	104	85 - 120	2	20		
Silver	105	108	75 - 141	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166233

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40178-2	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/29/2013 0537		
Prep Date:	03/26/2013 1330		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40178-2
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/29/2013 0539
Prep Date:	03/26/2013 1330
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Barium	140	2000	2000	2220	2260
Beryllium	ND	50.0	50.0	48.6	49.6
Chromium	ND	200	200	201	205
Cobalt	ND	500	500	497	507
Lead	ND	500	500	505	514
Nickel	ND	500	500	496	505
Vanadium	ND	500	500	508	519
Silver	ND	50.0	50.0	52.5	54.2

Client: Waste Management

Job Number: 280-40178-1

Method Blank - Batch: 280-166413

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-166413/1-A	Analysis Batch:	280-167248	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0944	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	ND		0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

Lab Control Sample - Batch: 280-166413

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-166413/2-A	Analysis Batch:	280-167248	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0946	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2140	107	90 - 112	
Beryllium	50.0	50.1	100	89 - 113	
Chromium	200	202	101	90 - 113	
Cobalt	500	504	101	89 - 111	
Lead	500	515	103	89 - 110	
Nickel	500	492	98	89 - 111	
Vanadium	500	511	102	90 - 111	
Silver	50.0	52.8	106	86 - 115	

Client: Waste Management

Job Number: 280-40178-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166413

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40225-3	Analysis Batch:	280-167248	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 1018			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40225-3	Analysis Batch:	280-167248	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 1020			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	103	107	85 - 120	4	20		
Beryllium	96	100	79 - 121	3	20		
Chromium	98	101	73 - 135	3	20		
Cobalt	98	101	82 - 119	3	20		
Lead	100	104	89 - 121	3	20		
Nickel	96	99	84 - 120	3	20		
Vanadium	100	102	85 - 120	2	20		
Silver	102	105	75 - 141	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166413

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40225-3	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/29/2013 1018		
Prep Date:	03/26/2013 1330		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40225-3
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/29/2013 1020
Prep Date:	03/26/2013 1330
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Barium	85	J	2000	2000	2150	2230
Beryllium	ND		50.0	50.0	48.2	49.8
Chromium	1.9	J	200	200	197	204
Cobalt	ND		500	500	490	506
Lead	ND		500	500	501	518
Nickel	ND		500	500	478	494
Vanadium	1.1	J	500	500	499	509
Silver	ND		50.0	50.0	51.2	52.7

Client: Waste Management

Job Number: 280-40178-1

Method Blank - Batch: 280-166998

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-166998/1-A	Analysis Batch:	280-167352	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166998	Lab File ID:	26A3032913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2142	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	ND		0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-166998

Method: 6010C
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID:	LCS 280-166998/2-A	Analysis Batch:	280-167352	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166998	Lab File ID:	26A3032913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2144	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-166998/3-A	Analysis Batch:	280-167352	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166998	Lab File ID:	26A3032913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2146	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Barium	105	103	90 - 112	1	20		
Beryllium	102	100	89 - 113	2	20		
Chromium	103	101	90 - 113	2	20		
Cobalt	103	101	89 - 111	2	20		
Lead	103	102	89 - 110	1	20		
Nickel	101	99	89 - 111	2	20		
Vanadium	104	101	90 - 111	3	20		
Silver	109	108	86 - 115	1	20		

Client: Waste Management

Job Number: 280-40178-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-166998

Method: 6010C
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID:	LCS 280-166998/2-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-166998/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/29/2013 2144			Analysis Date:	03/29/2013 2146
Prep Date:	03/28/2013 1400			Prep Date:	03/28/2013 1400
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Barium	2000	2000	2090	2060
Beryllium	50.0	50.0	51.2	50.0
Chromium	200	200	205	201
Cobalt	500	500	513	504
Lead	500	500	515	508
Nickel	500	500	505	496
Vanadium	500	500	519	506
Silver	50.0	50.0	54.6	53.9

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166998

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40178-11	Analysis Batch:	280-167352	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166998	Lab File ID:	26A3032913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2153			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40178-11	Analysis Batch:	280-167352	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166998	Lab File ID:	26A3032913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2155			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	104	104	85 - 120	1	20		
Beryllium	99	101	79 - 121	2	20		
Chromium	99	101	73 - 135	2	20		
Cobalt	100	101	82 - 119	2	20		
Lead	100	102	89 - 121	2	20		
Nickel	98	100	84 - 120	2	20		
Vanadium	100	102	85 - 120	2	20		
Silver	105	107	75 - 141	2	20		

Client: Waste Management

Job Number: 280-40178-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166998

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40178-11	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/29/2013 2153		
Prep Date:	03/28/2013 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40178-11
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/29/2013 2155
Prep Date:	03/28/2013 1400
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Barium	26	J	2000	2000	2100	2110
Beryllium	ND		50.0	50.0	49.7	50.5
Chromium	5.6	J	200	200	204	208
Cobalt	ND		500	500	498	507
Lead	ND		500	500	500	509
Nickel	ND		500	500	490	500
Vanadium	9.7	J	500	500	510	519
Silver	ND		50.0	50.0	52.5	53.6

Client: Waste Management

Job Number: 280-40178-1

Method Blank - Batch: 280-166228

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-166228/1-A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166228	Lab File ID:	137_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0139	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Lab Control Sample - Batch: 280-166228

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-166228/2-A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166228	Lab File ID:	138_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0142	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	38.7	97	85 - 115	
Arsenic	40.0	42.1	105	85 - 117	
Cadmium	40.0	41.1	103	85 - 115	
Copper	40.0	43.8	109	85 - 119	
Selenium	40.0	42.0	105	77 - 122	
Thallium	40.0	41.9	105	85 - 118	
Zinc	40.0	42.9	107	83 - 122	

Client: Waste Management

Job Number: 280-40178-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166228

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40178-1	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166228	Lab File ID:	142_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0154			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40178-1	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166228	Lab File ID:	143_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0156			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	99	98	85 - 115	1	20		
Arsenic	103	103	85 - 115	0	20		
Cadmium	103	102	85 - 115	1	20		
Copper	105	104	85 - 119	1	20		
Selenium	105	102	77 - 122	3	20		
Thallium	106	103	85 - 118	3	20		
Zinc	112	108	83 - 122	4	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166228

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40178-1	Units: ug/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/27/2013 0154		
Prep Date:	03/26/2013 1330		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40178-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/27/2013 0156
Prep Date:	03/26/2013 1330
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony	ND		40.0	40.0	39.5	39.2
Arsenic	ND		40.0	40.0	41.2	41.1
Cadmium	ND		40.0	40.0	41.3	40.9
Copper	0.77	J	40.0	40.0	42.9	42.6
Selenium	ND		40.0	40.0	42.1	40.8
Thallium	ND		40.0	40.0	42.3	41.2
Zinc	ND		40.0	40.0	44.6	43.0

Client: Waste Management

Job Number: 280-40178-1

Method Blank - Batch: 280-166410

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-166410/1-A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166410	Lab File ID:	162_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0252	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Lab Control Sample - Batch: 280-166410

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-166410/2-A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166410	Lab File ID:	163_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0255	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	38.2	95	85 - 115	
Arsenic	40.0	40.9	102	85 - 117	
Cadmium	40.0	40.8	102	85 - 115	
Copper	40.0	42.0	105	85 - 119	
Selenium	40.0	40.8	102	77 - 122	
Thallium	40.0	42.2	106	85 - 118	
Zinc	40.0	43.3	108	83 - 122	

Client: Waste Management

Job Number: 280-40178-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166410

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40223-A-1-D MS	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166410	Lab File ID:	167_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0307			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40223-A-1-E MSD	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166410	Lab File ID:	168_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0310			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	99	100	85 - 115	1	20		
Arsenic	105	105	85 - 115	0	20		
Cadmium	105	106	85 - 115	1	20		
Copper	104	105	85 - 119	1	20		
Selenium	107	108	77 - 122	1	20		
Thallium	106	107	85 - 118	1	20		
Zinc	105	105	83 - 122	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166410

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40223-A-1-D MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/27/2013 0307		
Prep Date:	03/26/2013 1330		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40223-A-1-E MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/27/2013 0310
Prep Date:	03/26/2013 1330
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony	ND		40.0	40.0	39.8	40.2
Arsenic	ND		40.0	40.0	42.1	42.1
Cadmium	ND		40.0	40.0	42.2	42.5
Copper	1.3	J	40.0	40.0	42.8	43.3
Selenium	ND		40.0	40.0	42.7	43.1
Thallium	ND		40.0	40.0	42.4	42.9
Zinc	2.6	J	40.0	40.0	44.5	44.6

Client: Waste Management

Job Number: 280-40178-1

Method Blank - Batch: 280-167000

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-167000/1-A	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167000	Lab File ID:	077_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2253	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-167000

Method: 6020A
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID:	LCS 280-167000/2-A	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167000	Lab File ID:	078_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2256	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-167000/3-A	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167000	Lab File ID:	079LCSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2259	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Antimony	96	98	85 - 115	1	20		
Arsenic	105	106	85 - 117	1	20		
Cadmium	104	103	85 - 115	1	20		
Copper	109	111	85 - 119	2	20		
Selenium	105	107	77 - 122	2	20		
Thallium	107	106	85 - 118	0	20		
Zinc	105	106	83 - 122	1	20		

Client: Waste Management

Job Number: 280-40178-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-167000

Method: 6020A
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID:	LCS 280-167000/2-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 280-167000/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/28/2013 2256			Analysis Date:	03/28/2013 2259
Prep Date:	03/28/2013 1400			Prep Date:	03/28/2013 1400
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Antimony	40.0	40.0	38.5	39.0
Arsenic	40.0	40.0	42.1	42.3
Cadmium	40.0	40.0	41.5	41.2
Copper	40.0	40.0	43.5	44.2
Selenium	40.0	40.0	42.1	42.8
Thallium	40.0	40.0	42.7	42.6
Zinc	40.0	40.0	42.0	42.5

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167000

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40178-12	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167000	Lab File ID:	084_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2313			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40178-12	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167000	Lab File ID:	085_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2316			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	81	81	85 - 115	1	20	F	F
Arsenic	102	102	85 - 115	0	20		
Cadmium	103	102	85 - 115	1	20		
Copper	104	103	85 - 119	1	20		
Selenium	105	103	77 - 122	2	20		
Thallium	104	102	85 - 118	1	20		
Zinc	103	102	83 - 122	0	20		

Client: Waste Management

Job Number: 280-40178-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167000

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40178-12	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/28/2013 2313		
Prep Date:	03/28/2013 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40178-12
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/28/2013 2316
Prep Date:	03/28/2013 1400
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	ND		40.0	40.0	32.6	F	32.4	F
Arsenic	ND		40.0	40.0	41.0		40.9	
Cadmium	ND		40.0	40.0	41.1		40.7	
Copper	1.0	J	40.0	40.0	42.5		42.2	
Selenium	ND		40.0	40.0	42.1		41.3	
Thallium	ND		40.0	40.0	41.4		40.9	
Zinc	2.4	J	40.0	40.0	43.5		43.4	

Client: Waste Management

Job Number: 280-40178-1

Laboratory Chronicle

Lab ID: 280-40178-1 **Client ID:** 3406-MW01

Sample Date/Time: 03/20/2013 12:06 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-1		280-166759		03/27/2013 08:29	1	TAL DEN	MD
A:8260B	280-40178-B-1		280-166759		03/27/2013 08:29	1	TAL DEN	MD
P:3005A	280-40178-A-1-D		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-1-D		280-167198	280-166233	03/29/2013 05:29	1	TAL DEN	HEB
P:3005A	280-40178-A-1-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-1-A		280-166804	280-166228	03/27/2013 01:45	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-1		280-166154		03/20/2013 12:06	1	TAL DEN	FS

Lab ID: 280-40178-1 MS **Client ID:** 3406-MW01

Sample Date/Time: 03/20/2013 12:06 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-C-1 MS		280-166759		03/27/2013 09:10	1	TAL DEN	MD
A:8260B	280-40178-C-1 MS		280-166759		03/27/2013 09:10	1	TAL DEN	MD
P:3005A	280-40178-A-1-B MS		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-1-B MS		280-166804	280-166228	03/27/2013 01:54	1	TAL DEN	TEL

Lab ID: 280-40178-1 MSD **Client ID:** 3406-MW01

Sample Date/Time: 03/20/2013 12:06 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-C-1 MSD		280-166759		03/27/2013 09:31	1	TAL DEN	MD
A:8260B	280-40178-C-1 MSD		280-166759		03/27/2013 09:31	1	TAL DEN	MD
P:3005A	280-40178-A-1-C MSD		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-1-C MSD		280-166804	280-166228	03/27/2013 01:56	1	TAL DEN	TEL

Lab ID: 280-40178-2 **Client ID:** 3406-MW02

Sample Date/Time: 03/20/2013 08:31 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-2		280-166759		03/27/2013 11:36	1	TAL DEN	MD
A:8260B	280-40178-B-2		280-166759		03/27/2013 11:36	1	TAL DEN	MD
P:3005A	280-40178-A-2-B		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-2-B		280-167198	280-166233	03/29/2013 05:32	1	TAL DEN	HEB
P:3005A	280-40178-A-2-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-2-A		280-166804	280-166228	03/27/2013 01:59	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-2		280-166154		03/20/2013 08:31	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-40178-1

Laboratory Chronicle

Lab ID: 280-40178-2 MS **Client ID:** 3406-MW02

Sample Date/Time: 03/20/2013 08:31 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40178-A-2-C MS		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-2-C MS		280-167198	280-166233	03/29/2013 05:37	1	TAL DEN	HEB

Lab ID: 280-40178-2 MSD **Client ID:** 3406-MW02

Sample Date/Time: 03/20/2013 08:31 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40178-A-2-D MSD		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-2-D MSD		280-167198	280-166233	03/29/2013 05:39	1	TAL DEN	HEB

Lab ID: 280-40178-3 **Client ID:** 3406-MW03

Sample Date/Time: 03/20/2013 11:00 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-3		280-166759		03/27/2013 11:57	1	TAL DEN	MD
A:8260B	280-40178-B-3		280-166759		03/27/2013 11:57	1	TAL DEN	MD
P:3005A	280-40178-A-3-B		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-3-B		280-167198	280-166233	03/29/2013 05:44	1	TAL DEN	HEB
P:3005A	280-40178-A-3-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-3-A		280-166804	280-166228	03/27/2013 02:02	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-3		280-166154		03/20/2013 11:00	1	TAL DEN	FS

Lab ID: 280-40178-4 **Client ID:** 3406-MW04

Sample Date/Time: 03/20/2013 14:20 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-4		280-166759		03/27/2013 12:18	1	TAL DEN	MD
A:8260B	280-40178-B-4		280-166759		03/27/2013 12:18	1	TAL DEN	MD
P:3005A	280-40178-A-4-B		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-4-B		280-167198	280-166233	03/29/2013 05:46	1	TAL DEN	HEB
P:3005A	280-40178-A-4-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-4-A		280-166804	280-166228	03/27/2013 02:05	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-4		280-166154		03/20/2013 14:20	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-40178-1

Laboratory Chronicle

Lab ID: 280-40178-5 **Client ID:** 3406-MW04D

Sample Date/Time: 03/20/2013 14:50 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-5		280-166759		03/27/2013 12:38	1	TAL DEN	MD
A:8260B	280-40178-B-5		280-166759		03/27/2013 12:38	1	TAL DEN	MD
P:3005A	280-40178-A-5-B		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-5-B		280-167198	280-166233	03/29/2013 05:58	1	TAL DEN	HEB
P:3005A	280-40178-A-5-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-5-A		280-166804	280-166228	03/27/2013 02:17	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-5		280-166154		03/20/2013 14:50	1	TAL DEN	FS

Lab ID: 280-40178-6 **Client ID:** 3406-MW06

Sample Date/Time: 03/20/2013 12:37 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-6		280-166759		03/27/2013 12:59	1	TAL DEN	MD
A:8260B	280-40178-B-6		280-166759		03/27/2013 12:59	1	TAL DEN	MD
P:3005A	280-40178-A-6-B		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-6-B		280-167198	280-166233	03/29/2013 06:01	1	TAL DEN	HEB
P:3005A	280-40178-A-6-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-6-A		280-166804	280-166228	03/27/2013 02:20	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-6		280-166154		03/20/2013 12:37	1	TAL DEN	FS

Lab ID: 280-40178-7 **Client ID:** 3406-MW07

Sample Date/Time: 03/20/2013 10:27 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-7		280-166759		03/27/2013 13:20	1	TAL DEN	MD
A:8260B	280-40178-B-7		280-166759		03/27/2013 13:20	1	TAL DEN	MD
P:3005A	280-40178-A-7-B		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-7-B		280-167198	280-166233	03/29/2013 06:03	1	TAL DEN	HEB
P:3005A	280-40178-A-7-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-7-A		280-166804	280-166228	03/27/2013 02:23	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-7		280-166154		03/20/2013 10:27	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-40178-1

Laboratory Chronicle

Lab ID: **280-40178-8** **Client ID:** **3406-MW09R**

Sample Date/Time: 03/20/2013 11:33 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-8		280-166759		03/27/2013 13:41	1	TAL DEN	MD
A:8260B	280-40178-B-8		280-166759		03/27/2013 13:41	1	TAL DEN	MD
P:3005A	280-40178-A-8-B		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-8-B		280-167198	280-166233	03/29/2013 06:06	1	TAL DEN	HEB
P:3005A	280-40178-A-8-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-8-A		280-166804	280-166228	03/27/2013 02:26	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-8		280-166154		03/20/2013 11:33	1	TAL DEN	FS

Lab ID: **280-40178-9** **Client ID:** **3406-MW10**

Sample Date/Time: 03/20/2013 09:58 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-9		280-166759		03/27/2013 14:02	1	TAL DEN	MD
A:8260B	280-40178-B-9		280-166759		03/27/2013 14:02	1	TAL DEN	MD
P:3005A	280-40178-A-9-B		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-9-B		280-167198	280-166233	03/29/2013 06:08	1	TAL DEN	HEB
P:3005A	280-40178-A-9-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-9-A		280-166804	280-166228	03/27/2013 02:29	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-9		280-166154		03/20/2013 09:58	1	TAL DEN	FS

Lab ID: **280-40178-10** **Client ID:** **3406-MW11**

Sample Date/Time: 03/20/2013 09:00 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-10		280-166759		03/27/2013 14:23	1	TAL DEN	MD
A:8260B	280-40178-B-10		280-166759		03/27/2013 14:23	1	TAL DEN	MD
P:3005A	280-40178-A-10-B		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40178-A-10-B		280-167198	280-166233	03/29/2013 06:10	1	TAL DEN	HEB
P:3005A	280-40178-A-10-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40178-A-10-A		280-166804	280-166228	03/27/2013 02:32	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-10		280-166154		03/20/2013 09:00	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-40178-1

Laboratory Chronicle

Lab ID: 280-40178-11 **Client ID:** 3406-MW11D

Sample Date/Time: 03/20/2013 09:29 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-11		280-166759		03/27/2013 14:44	1	TAL DEN	MD
A:8260B	280-40178-B-11		280-166759		03/27/2013 14:44	1	TAL DEN	MD
P:3005A	280-40178-A-11-C		280-167352	280-166998	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	280-40178-A-11-C		280-167352	280-166998	03/29/2013 21:48	1	TAL DEN	HEB
P:3005A	280-40178-A-11-F		280-167173	280-167000	03/28/2013 14:00	1	TAL DEN	RC
A:6020A	280-40178-A-11-F		280-167173	280-167000	03/28/2013 23:01	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-11		280-166154		03/20/2013 09:29	1	TAL DEN	FS

Lab ID: 280-40178-11 MS **Client ID:** 3406-MW11D

Sample Date/Time: 03/20/2013 09:29 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40178-A-11-D MS		280-167352	280-166998	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	280-40178-A-11-D MS		280-167352	280-166998	03/29/2013 21:53	1	TAL DEN	HEB

Lab ID: 280-40178-11 MSD **Client ID:** 3406-MW11D

Sample Date/Time: 03/20/2013 09:29 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40178-A-11-E MSD		280-167352	280-166998	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	280-40178-A-11-E MSD		280-167352	280-166998	03/29/2013 21:55	1	TAL DEN	HEB

Lab ID: 280-40178-12 **Client ID:** 3406-MW12

Sample Date/Time: 03/20/2013 13:46 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-12		280-166759		03/27/2013 15:05	1	TAL DEN	MD
A:8260B	280-40178-B-12		280-166759		03/27/2013 15:05	1	TAL DEN	MD
P:3005A	280-40178-A-12-C		280-167352	280-166998	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	280-40178-A-12-C		280-167352	280-166998	03/29/2013 22:09	1	TAL DEN	HEB
P:3005A	280-40178-A-12-D		280-167173	280-167000	03/28/2013 14:00	1	TAL DEN	RC
A:6020A	280-40178-A-12-D		280-167173	280-167000	03/28/2013 23:04	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-12		280-166154		03/20/2013 13:46	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-40178-1

Laboratory Chronicle

Lab ID: **280-40178-12 MS** **Client ID:** **3406-MW12**

Sample Date/Time: 03/20/2013 13:46 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40178-A-12-E MS		280-167173	280-167000	03/28/2013 14:00	1	TAL DEN	RC
A:6020A	280-40178-A-12-E MS		280-167173	280-167000	03/28/2013 23:13	1	TAL DEN	TEL

Lab ID: **280-40178-12 MSD** **Client ID:** **3406-MW12**

Sample Date/Time: 03/20/2013 13:46 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40178-A-12-F MSD		280-167173	280-167000	03/28/2013 14:00	1	TAL DEN	RC
A:6020A	280-40178-A-12-F MSD		280-167173	280-167000	03/28/2013 23:16	1	TAL DEN	TEL

Lab ID: **280-40178-13** **Client ID:** **3406-MW12D**

Sample Date/Time: 03/20/2013 13:15 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-B-13		280-166759		03/27/2013 15:25	1	TAL DEN	MD
A:8260B	280-40178-B-13		280-166759		03/27/2013 15:25	1	TAL DEN	MD
P:3005A	280-40178-A-13-C		280-167352	280-166998	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	280-40178-A-13-C		280-167352	280-166998	03/29/2013 22:11	1	TAL DEN	HEB
P:3005A	280-40178-A-13-D		280-167173	280-167000	03/28/2013 14:00	1	TAL DEN	RC
A:6020A	280-40178-A-13-D		280-167173	280-167000	03/28/2013 23:19	1	TAL DEN	TEL
A:Field Sampling	280-40178-A-13		280-166154		03/20/2013 13:15	1	TAL DEN	FS

Lab ID: **280-40178-14** **Client ID:** **TRIP BLANK**

Sample Date/Time: 03/20/2013 08:31 Received Date/Time: 03/21/2013 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40178-A-14		280-166759		03/27/2013 15:46	1	TAL DEN	MD
A:8260B	280-40178-A-14		280-166759		03/27/2013 15:46	1	TAL DEN	MD

Client: Waste Management

Job Number: 280-40178-1

Laboratory Chronicle

Lab ID: 280-40225-1 **Client ID:** 3406-01FB

Sample Date/Time: 03/21/2013 11:15 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40225-C-1		280-166922		03/27/2013 19:01	1	TAL DEN	MRM
A:8260B	280-40225-C-1		280-166922		03/27/2013 19:01	1	TAL DEN	MRM
P:3005A	280-40225-A-1-B		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40225-A-1-B		280-167248	280-166413	03/29/2013 10:08	1	TAL DEN	HEB
P:3005A	280-40225-A-1-A		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40225-A-1-A		280-166804	280-166410	03/27/2013 03:31	1	TAL DEN	TEL
A:Field Sampling	280-40225-A-1		280-166267		03/21/2013 11:15	1	TAL DEN	FS

Lab ID: 280-40225-1 MS **Client ID:** 3406-01FB

Sample Date/Time: 03/21/2013 11:15 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40225-B-1 MS		280-166922		03/27/2013 19:22	1	TAL DEN	MRM
A:8260B	280-40225-B-1 MS		280-166922		03/27/2013 19:22	1	TAL DEN	MRM

Lab ID: 280-40225-1 MSD **Client ID:** 3406-01FB

Sample Date/Time: 03/21/2013 11:15 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40225-B-1 MSD		280-166922		03/27/2013 19:43	1	TAL DEN	MRM
A:8260B	280-40225-B-1 MSD		280-166922		03/27/2013 19:43	1	TAL DEN	MRM

Lab ID: 280-40225-2 **Client ID:** 3406-MW05

Sample Date/Time: 03/21/2013 09:00 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40225-C-2		280-166922		03/27/2013 20:04	1	TAL DEN	MRM
A:8260B	280-40225-C-2		280-166922		03/27/2013 20:04	1	TAL DEN	MRM
P:3005A	280-40225-A-2-B		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40225-A-2-B		280-167248	280-166413	03/29/2013 10:11	1	TAL DEN	HEB
P:3005A	280-40225-A-2-A		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40225-A-2-A		280-166804	280-166410	03/27/2013 03:34	1	TAL DEN	TEL
A:Field Sampling	280-40225-A-2		280-166267		03/21/2013 09:00	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-40178-1

Laboratory Chronicle

Lab ID: 280-40225-3 **Client ID:** 3406-MW08

Sample Date/Time: 03/21/2013 08:20 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40225-C-3		280-166922		03/27/2013 20:24	1	TAL DEN	MRM
A:8260B	280-40225-C-3		280-166922		03/27/2013 20:24	1	TAL DEN	MRM
P:3005A	280-40225-A-3-B		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40225-A-3-B		280-167248	280-166413	03/29/2013 10:13	1	TAL DEN	HEB
P:3005A	280-40225-A-3-A		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40225-A-3-A		280-166804	280-166410	03/27/2013 03:37	1	TAL DEN	TEL
A:Field Sampling	280-40225-A-3		280-166267		03/21/2013 08:20	1	TAL DEN	FS

Lab ID: 280-40225-3 MS **Client ID:** 3406-MW08

Sample Date/Time: 03/21/2013 08:20 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40225-A-3-C MS		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40225-A-3-C MS		280-167248	280-166413	03/29/2013 10:18	1	TAL DEN	HEB

Lab ID: 280-40225-3 MSD **Client ID:** 3406-MW08

Sample Date/Time: 03/21/2013 08:20 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40225-A-3-D MSD		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40225-A-3-D MSD		280-167248	280-166413	03/29/2013 10:20	1	TAL DEN	HEB

Lab ID: 280-40225-4 **Client ID:** TRIP BLANK

Sample Date/Time: 03/21/2013 08:20 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40225-A-4		280-166922		03/27/2013 20:45	1	TAL DEN	MRM
A:8260B	280-40225-A-4		280-166922		03/27/2013 20:45	1	TAL DEN	MRM

Client: Waste Management

Job Number: 280-40178-1

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 280-166759/5		280-166759		03/27/2013 08:08	1	TAL DEN	MD
A:8260B	MB 280-166759/5		280-166759		03/27/2013 08:08	1	TAL DEN	MD
P:5030B	MB 280-166922/5		280-166922		03/27/2013 18:24	1	TAL DEN	MRM
A:8260B	MB 280-166922/5		280-166922		03/27/2013 18:24	1	TAL DEN	MRM
P:3005A	MB 280-166233/1-A		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	MB 280-166233/1-A		280-167198	280-166233	03/29/2013 05:25	1	TAL DEN	HEB
P:3005A	MB 280-166413/1-A		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	MB 280-166413/1-A		280-167248	280-166413	03/29/2013 09:44	1	TAL DEN	HEB
P:3005A	MB 280-166998/1-A		280-167352	280-166998	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	MB 280-166998/1-A		280-167352	280-166998	03/29/2013 21:42	1	TAL DEN	HEB
P:3005A	MB 280-166228/1-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	MB 280-166228/1-A		280-166804	280-166228	03/27/2013 01:39	1	TAL DEN	TEL
P:3005A	MB 280-166410/1-A		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	MB 280-166410/1-A		280-166804	280-166410	03/27/2013 02:52	1	TAL DEN	TEL
P:3005A	MB 280-167000/1-A		280-167173	280-167000	03/28/2013 14:00	1	TAL DEN	RC
A:6020A	MB 280-167000/1-A		280-167173	280-167000	03/28/2013 22:53	1	TAL DEN	TEL

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 280-166759/4		280-166759		03/27/2013 07:36	1	TAL DEN	MD
A:8260B	LCS 280-166759/4		280-166759		03/27/2013 07:36	1	TAL DEN	MD
P:5030B	LCS 280-166922/4		280-166922		03/27/2013 18:03	1	TAL DEN	MRM
A:8260B	LCS 280-166922/4		280-166922		03/27/2013 18:03	1	TAL DEN	MRM
P:3005A	LCS 280-166233/2-A		280-167198	280-166233	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	LCS 280-166233/2-A		280-167198	280-166233	03/29/2013 05:27	1	TAL DEN	HEB
P:3005A	LCS 280-166413/2-A		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	LCS 280-166413/2-A		280-167248	280-166413	03/29/2013 09:46	1	TAL DEN	HEB
P:3005A	LCS 280-166998/2-A		280-167352	280-166998	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	LCS 280-166998/2-A		280-167352	280-166998	03/29/2013 21:44	1	TAL DEN	HEB
P:3005A	LCS 280-166228/2-A		280-166804	280-166228	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	LCS 280-166228/2-A		280-166804	280-166228	03/27/2013 01:42	1	TAL DEN	TEL
P:3005A	LCS 280-166410/2-A		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	LCS 280-166410/2-A		280-166804	280-166410	03/27/2013 02:55	1	TAL DEN	TEL
P:3005A	LCS 280-167000/2-A		280-167173	280-167000	03/28/2013 14:00	1	TAL DEN	RC
A:6020A	LCS 280-167000/2-A		280-167173	280-167000	03/28/2013 22:56	1	TAL DEN	TEL

Client: Waste Management

Job Number: 280-40178-1

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:3005A	LCSD 280-166998/3-A		280-167352	280-166998	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	LCSD 280-166998/3-A		280-167352	280-166998	03/29/2013 21:46	1	TAL DEN	HEB
P:3005A	LCSD 280-167000/3-A		280-167173	280-167000	03/28/2013 14:00	1	TAL DEN	RC
A:6020A	LCSD 280-167000/3-A		280-167173	280-167000	03/28/2013 22:59	1	TAL DEN	TEL

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:3005A	280-40223-A-1-D MS		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40223-A-1-D MS		280-166804	280-166410	03/27/2013 03:07	1	TAL DEN	TEL

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:3005A	280-40223-A-1-E MSD		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40223-A-1-E MSD		280-166804	280-166410	03/27/2013 03:10	1	TAL DEN	TEL

Lab References:

TAL DEN = TestAmerica Denver

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: 280-15240-4080.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.4060	E-Mail: betsy.sara@testamericainc.com		Page:
Company: WM-Southern Area				Job #:
Address: 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 609-434-5622	PO #:			
Email: alacsama@wm.com	WO #:			
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA GW Monitoring Mar			
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)	Total Metals	8260B - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A		
MW01	3-20	1206	G	W	N		1	3		
MW02	3-20	0831	G	W	N		1	3		
MW03	3-20	1100	G	W	N		1	3		
MW04	3-20	1420	G	W	N		1	3		
MW04D	3-20	1450	G	W	N		1	3		
MW06	3-20	1237	G	W	N		1	3		
MW07	3-20	1027	G	W	N		1	3		
MW09R	3-20	1133	G	W	N		1	3		
MW10	3-20	0958	G	W	N		1	3		
MW11	3-20	0900	G	W	N		1	3		
MW11D	3-20	0929	G	W	N		1	3		

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: 3-20-13 / 1900	Company PRO-TECH	Received by:	Date/Time: 3/21/13	Company TAD
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: 2.2° FP 3/21/13

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: 280-15240-4080.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.4060	E-Mail: betsy.sara@testamericainc.com		Page:
Company: WM-Southern Area				Job #:
Address: 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 609-434-5622	PO #:			
Email: alacsama@wm.com	WO #:			
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA GW Monitoring Mar			
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)	Total Metals	8260B - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A		
MW 12	3-20	1346	G	W	N		1	3		
MW 12D	3-20	1315	G	W	N		1	3		
TRIP	3-20	—	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: 3-20-13 / 1900	Company PRO-TECH	Received by:	Date/Time: 3/21/13	Company TAD
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: 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:

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
032013	1150	1:16	06	15	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

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): 8393 (ft/msl)

Depth to Water (DTW) (from TOC): 4513 (ft)

Groundwater Elevation (site datum, from TOC): 7780 (ft/msl)

Total Well Depth (from TOC): 4900 (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)
1159	0.09 1st	581 1st	51 1st	144	17	36	147	452
1201	0.09 2nd	578 2nd	51 2nd	144	12	36	147	452
1203	0.09 3rd	583 3rd	53 3rd	144	20	36	144	452
1205	0.09 4th	581 4th	53 4th	144	13	36	146	452
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 fileds 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
032013	581	53	144	13	36	146	

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: SE 0-5 Outlook: PC 50°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 49.00 - 45.13 = 3.87 X 0.163 = 0.63 gallon

FLOW: 166 X 4 = 664 ÷ 60 = 11.07 ∴ 0.09 gpm

ACTUAL: 16 ÷ 11.07 = 1.45 gallon

SAMPLE TIME: 1206

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
3/20/13	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: 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
032013	0813	18	11	15	13

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: L

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)
77804 (ft/msl)	2852 (ft)	74952 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
3550 (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)
0824	0.08 1st	5.08 1st	118 1st	13.8	23	11	176	28.6
0826	0.08 2nd	5.07 2nd	119 2nd	13.9	09	11	173	28.6
0828	0.08 3rd	5.06 3rd	119 3rd	13.9	08	11	173	28.6
0830	0.08 4th	5.06 4th	120 4th	13.9	08	11	172	28.6
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 fileds 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
032013	5.06	120	13.9	08	11	172	

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: SE 0-5 Outlook: P.C. 40°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 35.50 − 28.52 = 6.98 x 0.163 = 1.14 gallon

FLOW: 181 cm/qt x 4 qt/gal = 724 cm/gal ÷ 60 cm/min = 12.07 min/gal ∴ 0.083 gpm

ACTUAL: 18 min ÷ 12.07 min/gal = 1.49 gallon

SAMPLE TIME: 0831

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
3/20/13	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: 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: 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
032013	1042	18	20	16	0.8

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): 7708 (ft/msl)

Depth to Water (DTW) (from TOC): 25.99 (ft)

Groundwater Elevation (site datum, from TOC): 744.09 (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)
1053	0.09 1st	5.88 1st	123	13.8	48	4.3	44	28.2
1055	0.09 2nd	5.87 2nd	123	13.7	27	4.3	44	28.3
1057	0.09 3rd	5.87 3rd	122	13.7	29	4.3	45	28.3
1059	0.09 4th	5.87 4th	123	13.7	24	4.3	47	28.3
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 fileds 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
032013	5.87	123	13.7	24	4.3	47	

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: SE 0.5 Outlook: P.C. 45°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 38.00 - 25.99 = 12.01 X 0.163 = 1.96 gallon

FLOW: 174 X 4 = 696 ÷ 60 = 11.6 ∴ 0.086 gpm

ACTUAL: 18 ÷ 11.6 = 1.55 gal

SAMPLE TIME: 1100

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
3/20/13	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
032013	1402	1:18	23	19	0.8

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): 75692 (ft/msl)

Depth to Water (DTW) (from TOC): 1270 (ft)

Groundwater Elevation (site datum, from TOC): 74422 (ft/msl)

Total Well Depth (from TOC): 2700 (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)
1413	0.11 1st	5.12 1st	68	15.3	29	0.5	114	13.7
1415	0.11 2nd	5.11 2nd	68	15.2	22	0.5	112	13.7
1417	0.11 3rd	5.09 3rd	68	15.3	29	0.5	115	13.8
1419	0.11 4th	5.08 4th	68	15.2	31	0.5	117	13.8
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 fileds 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
032013	5.08	68	15.2	31	0.5	117	

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: SE 0-5 Outlook: P.C. 50°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 27.00 − 12.70 = 14.30 x 0.163 = 2.33 gallon

FLOW: 142 x 4 = 568 ÷ 60 = 9.47 ∴ 0.106 gpm

ACTUAL: 18 ÷ 9.47 = 1.90 gallon

SAMPLE TIME: 1420

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
3/20/13	DAN ARMOUR		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: S

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
032013	1435	15	80	12	0.2

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): 757.33 (ft/msl)

Depth to Water (DTW) (from TOC): 13.18 (ft)

Groundwater Elevation (site datum, from TOC): 744.15 (ft/msl)

Total Well Depth (from TOC): 62.00 (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)
1443	0.08 1st	5.82 1st	776	15.8	164	4.5	53	13.9
1445	0.08 2nd	5.81 2nd	777	15.6	170	4.6	53	14.0
1447	0.08 3rd	5.84 3rd	777	15.6	179	4.6	53	14.0
1449	0.08 4th	5.80 4th	778	15.6	187	4.6	53	14.0
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 fileds 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 ____
032013	5.80	78	15.6	187	4.6	53	

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: WHITISH TINT Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 0-5 Outlook: P.C. 50°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 62.00 - 13.18 = 48.82 x 0.163 = 7.96 gallon

FLOW: 187 x 4 = 748 ÷ 60 = 12.47 ∴ 0.08 gpm

ACTUAL: 15 ÷ 12.47 = 1.20 gallon

SAMPLE TIME: 1450

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
3/20/13	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: 0

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
032013	1220	17	20	14	0.7

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

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)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
778.04 (ft/msl)	23.45 (ft)	754.59 (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)
1230	0.08 1st	5.27 1st	28	14.6	32	1.1	145	24.3
1232	0.08 2nd	5.27 2nd	27	14.5	37	1.2	143	24.3
1234	0.08 3rd	5.25 3rd	28	14.5	26	1.2	144	24.3
1236	0.08 4th	5.28 4th	28	14.5	23	1.2	146	24.3
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 fileds 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 ____
032013	5.28	28	14.5	23	1.2	146	

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: SE 0-5 Outlook: P.C. 50°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 35.50 - 23.45 = 12.05 x 0.163 = 1.96 gallon

FLOW: 177 x 4 = 708 ÷ 60 = 11.80 ∴ 0.085 gpm

ACTUAL: 17 ÷ 11.80 = 1.44 gallon

SAMPLE TIME: 1237

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
3/20/13	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: 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
032013	1010	17	11	15	1.4

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): 7715.57 (ft/msl)

Depth to Water (DTW) (from TOC): 24.71 (ft)

Groundwater Elevation (site datum, from TOC): 746.86 (ft/msl)

Total Well Depth (from TOC): 31.30 (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)
1020	0.09	1st 5.83	1st 9.1	13.6	8.7	5.8	82	24.8
1022	0.09	2nd 5.84	2nd 9.2	13.6	8.6	5.8	80	24.8
1024	0.09	3rd 5.82	3rd 9.3	13.7	8.2	5.9	83	24.8
1026	0.09	4th 5.84	4th 9.3	13.7	8.1	5.9	83	24.8
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 fileds 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
032013	5.84	9.3	13.7	8.1	5.9	83	

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: SE 0-5 Outlook: P.C. 40°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 31.30-24.71= 6.59 X0.163= 1.07 gallon

FLOW: 176 x 4= 704 ÷60= 11.73 ; 0.085 gpm

ACTUAL: 17 ÷11.73= 1.45 gallon

SAMPLE TIME: 1027

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
3/20/13	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: 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: 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
032013	1115	18	26	17	0.6

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

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): 764.95 (ft/msl)

Depth to Water (DTW) (from TOC): 26.67 (ft)

Groundwater Elevation (site datum, from TOC): 738.28 (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)
1126	0.9 1st	5.96 1st	251	15.2	20	0.1	22	27.5
1128	0.9 2nd	5.96 2nd	250	15.2	0.9	0.0	21	27.5
1130	0.9 3rd	5.94 3rd	250	15.1	0.8	0.0	24	27.5
1132	0.9 4th	5.93 4th	250	15.1	0.8	0.0	22	27.5
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 fileds 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
032013	5.93	250	15.1	0.8	0.0	22	

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: SE 0.5 Outlook: P.C. 45°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 42.95 - 26.67 = 16.28 x 0.163 = 2.65 gallon

FLOW: 161 x 4 = 644 ÷ 60 = 10.73 ∴ 0.093 gpm

ACTUAL: 18 ÷ 10.73 = 1.68 gallon

SAMPLE TIME: 1133

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
3/20/13	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: 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
032013	0941	:17	13	13	1.0

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): 7720 (ft/msl)

Depth to Water (DTW) (from TOC): 30.04 (ft)

Groundwater Elevation (site datum, from TOC): 747.16 (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)
0951	0.08 1st	5.81 1st	99	12.7	62	3.1	164	30.1
0953	0.08 2nd	5.82 2nd	99	12.9	58	3.2	163	30.1
0955	0.08 3rd	5.82 3rd	99	13.0	59	3.2	163	30.2
0957	0.08 4th	5.83 4th	100	13.0	57	3.2	165	30.2
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 fileds 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 ____
032013	5.83	100	13.0	57	3.2	165	

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: SE 0-5 Outlook: P.C. 40°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 38.00 - 30.04 = 7.96 x 0.163 = 1.30 gallon

FLOW: 192 x 4 = 768 ÷ 60 = 12.8 ∴ 0.078 gpm

ACTUAL: 17 ÷ 12.8 = 1.33 gallon

SAMPLED TIME: 0958

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
3/20/13	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: 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
032013	0843	1:17	11	15	1.5

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): 28.34 (ft)

Groundwater Elevation (site datum, from TOC): 74846 (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)
0853	0.09 1st	5.50 1st	125 1st	13.4	43	1.0	139	28.5
0855	0.09 2nd	5.48 2nd	126 2nd	13.5	40	1.1	141	28.5
0857	0.09 3rd	5.48 3rd	126 3rd	13.5	41	1.0	142	28.5
0859	0.09 4th	5.48 4th	127 4th	13.5	37	1.0	140	28.5
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 fileds 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 ____
032013	5.48	127	13.5	37	1.0	140	

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: SE 0-5 Outlook: P.C. 40°F Precipitation: Y or (N)

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

CALC: 35.00 - 28.34 = 6.66 X 0.163 = 1.09 gallon

FLOW: 171 mL/min X 4 = 684 ÷ 60 = 11.4 ∴ 0.088 gpm

ACTUAL: 17 ÷ 11.4 = 1.49 gallon

SAMPLE TIME: 0900

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
3/20/13	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: 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: 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
03 20 13	09:10	1:19	106	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

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)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
776.36 (ft/msl)	28.31 (ft)	748.05 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
93.50 (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)
0922	0.1 1st	6.36 1st	37	12.9	58	3.4	96	30.5
0924	0.1 2nd	6.36 2nd	39	12.8	59	3.3	97	30.6
0926	0.1 3rd	6.36 3rd	40	12.9	59	3.3	94	30.6
0928	0.1 4th	6.33 4th	40	12.9	60	3.3	94	30.6
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 fileds 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 _____
03 20 13	6.33	40	12.9	60	3.3	94	

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: 0-5 SE Outlook: P.C, 40°F Precipitation: Y or (N)

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

CALC: 93.50 - 28.31 = 65.19 x 0.163 = 10.63 gallon

FLOW: 150 sec/qt x 4 = 600 ÷ 60 = 10 ∴ 0.10 gpm

ACTUAL: ~~0929~~ 19 ÷ 10 = 1.9 gallon

SAMPLE TIME: 0929

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
3/20/13	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: 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
032013	1326	20	19	16	0.9

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): 7514.8 (ft/msl)

Depth to Water (DTW) (from TOC): 6.23 (ft)

Groundwater Elevation (site datum, from TOC): 745.25 (ft/msl)

Total Well Depth (from TOC): 1800 (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)
1313	0.08 1st	5.82 1st	137	13.8	5.0	0.6	56	6.4
1341	0.08 2nd	5.79 2nd	139	13.8	5.2	0.7	58	6.4
1343	0.08 3rd	5.80 3rd	140	13.8	4.9	0.7	57	6.4
1345	0.08 4th	5.79 4th	141	13.8	4.6	0.7	59	6.4
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 fileds 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 ____
032013	5.79	141	13.8	4.6	0.7	59	

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: ~~N~~

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 0-5 Outlook: P.C. 50 Precipitation: Y or (N)

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

CALC: 18.00 - 6.23 = 11.77 x 0.163 = 1.92 gallons

FLOW: 183 x 4 = 732 ÷ 60 = 12.20 ∴ 0.082 gpm

ACTUAL: ~~18~~ 20 ÷ 12.20 = 1.64 gallon

SAMPLE TIME: 1346

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
3/20/13	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: 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
032013	1255	:20	62	17	0.3

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

Sampling Device: L

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)
751.48 (ft/msl)	5.43 (ft)	746.05 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
43.30 (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)
1308	0.09 1st	6.71 1st	228	14.4	53	0.6	48	5.7
1310	0.09 2nd	6.68 2nd	228	14.5	54	0.6	47	5.7
1312	0.09 3rd	6.66 3rd	228	14.5	57	0.6	47	5.7
1314	0.09 4th	6.67 4th	228	14.5	58	0.6	50	5.7
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 fileds 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 ____
032013	6.67	228	14.5	58	0.6	50	

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: SE 0-5 Outlook: P.C. 50°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 43.30 - 5.43 = 37.87 x 0.163 = 6.17 gallon

FLOW: 173 x 4 = 692 ÷ 60 = 11.53 ∴ 0.087 gpm

ACTUAL: 20 ÷ 11.53 = 1.73 gallon

SAMPLE TIME: 1315

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
3/20/13	DAN ARMOUR	[signature]	PRO-TECH

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: 280-15240-4080.1
Client Contact: Mr. Al Lacsamana	Phone: 225.907.4060	E-Mail: betsy.sara@testamericainc.com		Page:
Company: WM-Southern Area				Job #:
Address: 1000 Parkwood Circle, Suite 700	Due Date Requested:			
City: Atlanta	TAT Requested (days):			
State, Zip: GA, 30339				
Phone: 609-434-5622	PO #:			
Email: alacsama@wm.com	WO #:			
Project Name: 134|Piedmont Landfill	Project #: 28003156 - SA GW Monitoring Mar			
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)	Total Metals	8260B - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A		
01FB	3-21	1115	G	W	N		1	3		
MW05	3-21	0900	G	W	N		1	3		
MW08	3-21	0820	G	W	N		1	3		
TRIP	3-21	—	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: 3-21-13 / 1500	Company PRO-TECH	Received by:	Date/Time: 3/22/13 1000	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: 3.4 3/22/13 FP

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:

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
032113	—	—	—	—	—

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) ____ (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)
1115	NA	1st 693	1st 2	84	00	22	36	
		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 fileds 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 ____
032113	693	2	84	00	22	36	

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: SE 0-5 Outlook: Clear 35°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
3/21/13	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:

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
032113	0841	:19	2.5	1.8	0.7

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

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)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
743.17 (ft/msl)	4.91 (ft)	738.26 (ft/msl)

Total Well Depth (from TOC): 20.50 (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)
0853	0.09 1st	6.68 1st	1.94	7.9	2.1	0.1	39	5.9
0855	0.09 2nd	6.65 2nd	1.96	7.8	1.4	0.1	40	5.9
0857	0.09 3rd	6.66 3rd	1.97	7.9	1.1	0.1	37	5.9
0859	0.09 4th	6.62 4th	1.98	7.8	0.9	0.1	39	5.9
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 fileds 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 ____
032113	6.62	1.98	7.8	0.9	0.1	39	

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 35°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 20.50 − 4.91 = 15.59 X 0.163 = 2.54 gallon

FLOW: 161 x 4 = 644 ÷ 60 = 10.73 ∴ 0.093 gpm

ACTUAL: 19 ÷ 10.73 = 1.77 gallon

SAMPLE TIME: 0900

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
3/21/13	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: 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:

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
032113	0802	18	22	18	0.8

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): 7489.5 (ft/msl)

Depth to Water (DTW) (from TOC): 5.64 (ft)

Groundwater Elevation (site datum, from TOC): 743.31 (ft/msl)

Total Well Depth (from TOC): 18.80 (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)
0813	0.1 1st	5.40 1st	61	8.2	8.7	0.4	71	6.4
0815	0.1 2nd	5.39 2nd	60	8.2	6.8	0.5	71	6.4
0817	0.1 3rd	5.39 3rd	62	8.2	6.5	0.5	70	6.4
0819	0.1 4th	5.38 4th	62	8.2	6.4	0.5	70	6.5
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 fileds 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 ____
032113	5.38	62	8.2	6.4	0.5	70	

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 35°F Precipitation: Y or (N)

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

FIELD COMMENTS

CALC: 18.80 - 5.64 = 13.16 X 0.163 = 2.15 gallon

FLOW: 154 x 4 = 616 ÷ 60 = 10.27 ∴ 0.097 gpm

ACTUAL: 1.8 ÷ 10.29 = 1.75 gallon

SAMPLE TIME: 0820

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
3/21/13	DAN ARMOUR	[signature]	PROTECH
/ /			

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: 280-40178-1

Login Number: 40178

List Source: TestAmerica Denver

List Number: 1

Creator: Branda, Alex

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	N/A	
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: 280-40178-1

Login Number: 40225

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	N/A	
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	

ANALYTICAL REPORT

Job Number: 280-40204-1

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
4/3/2013 2:56 PM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
04/03/2013

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: 280-40204-1

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 03/22/2013; the samples arrived in good condition and on ice. The temperature of the cooler at receipt was 2.8 C.

Holding Times

The holding times were within established control limits.

Method Blanks

Total Phosphorus Method 365.1, Total Alkalinity and Bicarbonate Alkalinity Method 2320B 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.

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 percent recoveries and/or the relative percent difference of the MS/MSD performed on sample 3406-T01 were outside control limits for Total Sodium during Method 6010C because the sample concentration was greater than four times the spike amount.

Sample 3406-T01 was selected to fulfill the laboratory batch quality control requirements for Method 6020A. Analysis of the laboratory generated MS/MSD for this sample exhibited recoveries of Total Beryllium below the lower control limit indicating the possible presence of a matrix interference.

The Matrix Spikes and Matrix Spike Duplicates performed on samples from other clients exhibited recoveries outside control limits for Total Phosphorus Method 365.1 and Chemical Oxygen Demand (COD) Method 410.4. In addition, the RPD result was outside the RPD limit for Total Phosphorus. 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

Sample 3406-T01 was analyzed at a dilution during Method 8260B analysis due to high non-target analyte concentrations. The reporting limits have been adjusted accordingly.

Sample 3406-T01 requiring Method 8260B analysis had a pH greater than 2. This is non-compliant with Method 8260B which requires samples to be preserved with hydrochloric acid to a pH of less than 2. Because this sample is a leachate sample a buffering effect is suspected.

Metals

The Method 6010C continuing low level calibration verification (LLCCV) recovered outside of control limits for Total Sodium. Because the sample 3406-T01 exhibited a detection of Total Sodium greater than ten times the reporting limit, corrective action was deemed unnecessary.

General Chemistry

Due to the matrix, the initial volume used for sample 3406-T01 deviated from the standard procedure for TSS. The reporting limits (RLs) have been adjusted proportionately.

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40204-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40204-1	**3406-T01**					
1,4-Dichlorobenzene		2.8	J	30	ug/L	8260B
2-Butanone (MEK)		45	J	1000	ug/L	8260B
Acetone		79	J	1000	ug/L	8260B
Benzene		3.4	J	30	ug/L	8260B
Ethylbenzene		14	J	50	ug/L	8260B
Methylene Chloride		5.0	J	55	ug/L	8260B
Toluene		28	J	50	ug/L	8260B
Xylenes, Total		36		10	ug/L	8260B
Field pH		7.81			SU	Field Sampling
Field Conductivity		9642			umhos/cm	Field Sampling
Field Temperature		6.3			Degrees C	Field Sampling
Field Turbidity		13.7			NTU	Field Sampling
Field Dissolved Oxygen		2.1			mg/L	Field Sampling
Field EH/ORP		-123			millivolts	Field Sampling
Chloride		2900		30	mg/L	300.0
Sulfate		9.1	J	25	mg/L	300.0
Ammonia		1700		16	mg/L	350.1
Phosphorus, Total		11		1.0	mg/L	365.1
Chemical Oxygen Demand		1700		1000	mg/L	410.4
Total Alkalinity		5400	B	5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		5400	B	5.0	mg/L	SM 2320B
Total Dissolved Solids		7600		100	mg/L	SM 2540C
Total Suspended Solids		41		6.7	mg/L	SM 2540D
Total Organic Carbon - Average		600		20	mg/L	SM 5310B
Biochemical Oxygen Demand		59		50	mg/L	SM5210B
Total Recoverable						
Barium		730		100	ug/L	6010C
Chromium		240		10	ug/L	6010C
Cobalt		58		10	ug/L	6010C
Calcium		36000		200	ug/L	6010C
Copper		47		15	ug/L	6010C
Nickel		420		50	ug/L	6010C
Iron		9900		100	ug/L	6010C
Zinc		32		20	ug/L	6010C
Vanadium		140		25	ug/L	6010C
Magnesium		34000		200	ug/L	6010C
Manganese		720		10	ug/L	6010C
Selenium		6.8	J	15	ug/L	6010C
Potassium		500000		30000	ug/L	6010C
Sodium		2400000	^	5000	ug/L	6010C
Antimony		23		10	ug/L	6020A
Arsenic		48		25	ug/L	6020A
Cadmium		2.6	J	5.0	ug/L	6020A

METHOD SUMMARY

Client: Waste Management

Job Number: 280-40204-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Metals (ICP)	TAL DEN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Mercury (CVAA)	TAL DEN	SW846 7470A	
Preparation, Mercury	TAL DEN		SW846 7470A
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	

Lab References:

TAL DEN = TestAmerica Denver

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: 280-40204-1

Method	Analyst	Analyst ID
SW846 8260B	Moan, Matthew R	MRM
SW846 6010C	Bowen, Heidi E	HEB
SW846 6020A	Lill, Thomas E	TEL
SW846 7470A	Fredette, Nick	NF
EPA Field Sampling	Field, Sampler	FS
MCAWW 300.0	Kudla, Ewa	EK
MCAWW 300.0	Phan, Thu L	TLP
MCAWW 350.1	Elkin, David	DE
EPA 365.1	Scott, Samantha J	SJS
MCAWW 410.4	Bandy, Darlene F	DFB
SM Nitrate by calc	Sullivan, Roxanne	RS
SM SM 2320B	Krinsky, Aaron	AK
SM SM 2540C	Blythe, Scott	SB
SM SM 2540D	Woolley, Mark	MW
SM SM 5310B	Bandy, Darlene F	DFB
SM SM5210B	Ayala, Delaina	DA

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-40204-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-40204-1	3406-T01	Water	03/21/2013 0920	03/22/2013 1000
280-40204-2TB	TRIP BLANK	Water	03/21/2013 0920	03/22/2013 1000

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-40204-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-40204-1

Client Matrix: Water

Date Sampled: 03/21/2013 0920

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3419.D
Dilution:	1.0			Initial Weight/Volume:	2 mL
Analysis Date:	03/27/2013 2352			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 2352				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		2.1	50
1,1,1-Trichloroethane	ND		1.6	50
1,1,2,2-Tetrachloroethane	ND		2.1	30
1,1,2-Trichloroethane	ND		2.7	50
1,1-Dichloroethane	ND		2.2	50
1,1-Dichloroethene	ND		2.3	50
1,2,3-Trichloropropane	ND		3.3	80
1,2-Dibromo-3-Chloropropane	ND		4.7	130
1,2-Dibromoethane	ND		1.8	30
1,2-Dichlorobenzene	ND		1.5	100
1,2-Dichloroethane	ND		1.3	30
1,2-Dichloropropane	ND		1.8	30
1,4-Dichlorobenzene	2.8	J	1.6	30
2-Butanone (MEK)	45	J	20	1000
2-Hexanone	ND		17	500
4-Methyl-2-pentanone (MIBK)	ND		9.8	1000
Acetone	79	J	19	1000
Acrylonitrile	ND		14	2000
Benzene	3.4	J	1.6	30
Bromochloromethane	ND		1.0	30
Bromodichloromethane	ND		1.7	30
Bromoform	ND		1.9	30
Bromomethane	ND		2.1	100
Carbon disulfide	ND		4.5	1000
Carbon tetrachloride	ND		1.9	55
Chlorobenzene	ND		1.7	30
Chloroethane	ND		4.1	100
Chloroform	ND		1.6	50
Chloromethane	ND		3.0	55
cis-1,2-Dichloroethene	ND		1.5	50
cis-1,3-Dichloropropene	ND		1.6	55
Dibromochloromethane	ND		1.7	30
Dibromomethane	ND		1.7	100
Ethylbenzene	14	J	1.6	50
Iodomethane	ND		2.3	100
Methylene Chloride	5.0	J	3.2	55
Styrene	ND		1.7	100
Tetrachloroethene	ND		2.0	30
Toluene	28	J	1.7	50
trans-1,2-Dichloroethene	ND		1.5	50
trans-1,3-Dichloropropene	ND		1.9	55
trans-1,4-Dichloro-2-butene	ND		8.0	1000
Trichloroethene	ND		1.6	30
Trichlorofluoromethane	ND		2.9	50
Vinyl acetate	ND		9.4	500
Vinyl chloride	ND		1.0	55

Client: Waste Management

Job Number: 280-40204-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-40204-1

Client Matrix: Water

Date Sampled: 03/21/2013 0920

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3419.D
Dilution:	1.0			Initial Weight/Volume:	2 mL
Analysis Date:	03/27/2013 2352			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 2352				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	36		1.9	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		70 - 127
4-Bromofluorobenzene (Surr)	93		78 - 120
Dibromofluoromethane (Surr)	101		77 - 120
Toluene-d8 (Surr)	94		80 - 125

Client: Waste Management

Job Number: 280-40204-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-40204-2TB

Client Matrix: Water

Date Sampled: 03/21/2013 0920

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3413.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 2147			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 2147				

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: 280-40204-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-40204-2TB

Client Matrix: Water

Date Sampled: 03/21/2013 0920

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3413.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 2147			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 2147				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127
4-Bromofluorobenzene (Surr)	96		78 - 120
Dibromofluoromethane (Surr)	103		77 - 120
Toluene-d8 (Surr)	97		80 - 125

Client: Waste Management

Job Number: 280-40204-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-40204-1

Client Matrix: Water

Date Sampled: 03/21/2013 0920

Date Received: 03/22/2013 1000

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167352	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-167012	Lab File ID:	26A3032913.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2232			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	730		0.58	100
Chromium	240		0.66	10
Cobalt	58		1.2	10
Calcium	36000		35	200
Copper	47		1.4	15
Lead	ND		2.6	10
Nickel	420		1.3	50
Iron	9900		22	100
Zinc	32		4.5	20
Vanadium	140		1.1	25
Magnesium	34000		11	200
Manganese	720		0.25	10
Selenium	6.8	J	4.9	15
Silver	ND		0.93	10
Sodium	2400000	^	92	5000

Analysis Method:	6010C	Analysis Batch:	280-167599	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-167012	Lab File ID:	26B040113.asc
Dilution:	10			Initial Weight/Volume:	50 mL
Analysis Date:	04/02/2013 0037			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	500000		2400	30000

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-167173	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-167011	Lab File ID:	092AREF.D
Dilution:	5.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2337			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	23		2.0	10
Arsenic	48		1.7	25
Cadmium	2.6	J	0.50	5.0
Thallium	ND		0.25	5.0

Client: Waste Management

Job Number: 280-40204-1

Client Sample ID: **3406-T01**

Lab Sample ID: 280-40204-1

Client Matrix: Water

Date Sampled: 03/21/2013 0920

Date Received: 03/22/2013 1000

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-167173	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-167011	Lab File ID:	102AREF.D
Dilution:	25			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0006	Run Type:	DL	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Beryllium	ND		2.0	25

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	280-167422	Instrument ID:	MT_034
Prep Method:	7470A	Prep Batch:	280-166451	Lab File ID:	130329tac.txt
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	03/29/2013 2049			Final Weight/Volume:	30 mL
Prep Date:	03/29/2013 1230				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	ND		0.027	0.20

General Chemistry

Client Sample ID: **3406-T01**

Lab Sample ID: 280-40204-1 Date Sampled: 03/21/2013 0920
Client Matrix: Water Date Received: 03/22/2013 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chloride	2900		mg/L	25	30	100	300.0
Analysis Batch: 280-167272	Analysis Date: 03/29/2013 0955						
Sulfate	9.1	J	mg/L	1.2	25	5.0	300.0
Analysis Batch: 280-167154	Analysis Date: 03/28/2013 2251						
Ammonia	1700		mg/L	8.8	16	400	350.1
Analysis Batch: 280-167093	Analysis Date: 03/28/2013 1536						
Phosphorus, Total	11		mg/L	0.10	1.0	20	365.1
Analysis Batch: 280-167178	Analysis Date: 03/28/2013 1600						
Prep Batch: 280-167025	Prep Date: 03/28/2013 1012						
Chemical Oxygen Demand	1700		mg/L	81	1000	20	410.4
Analysis Batch: 280-167122	Analysis Date: 03/28/2013 1916						
Nitrate as N	ND		mg/L	0.019	0.50	1.0	Nitrate by calc
Analysis Batch: 280-167610	Analysis Date: 03/22/2013 1522						
Total Alkalinity	5400	B	mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-167666	Analysis Date: 04/02/2013 1138						
Bicarbonate Alkalinity as CaCO3	5400	B	mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-167666	Analysis Date: 04/02/2013 1138						
Carbonate Alkalinity as CaCO3	ND		mg/L	1.1	5.0	1.0	SM 2320B
Analysis Batch: 280-167666	Analysis Date: 04/02/2013 1138						
Total Dissolved Solids	7600		mg/L	47	100	1.0	SM 2540C
Analysis Batch: 280-166776	Analysis Date: 03/27/2013 0757						
Total Suspended Solids	41		mg/L	1.8	6.7	1.0	SM 2540D
Analysis Batch: 280-167102	Analysis Date: 03/28/2013 1633						
Total Organic Carbon - Average	600		mg/L	3.1	20	20	SM 5310B
Analysis Batch: 280-167194	Analysis Date: 03/29/2013 0229						
Biochemical Oxygen Demand	59		mg/L	5.9	50	5.0	SM5210B
Analysis Batch: 280-166287	Analysis Date: 03/22/2013 1923						

Field Service / Mobile Lab

Client Sample ID: **3406-T01**

Lab Sample ID: 280-40204-1

Client Matrix: Water

Date Sampled: 03/21/2013 0920

Date Received: 03/22/2013 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.81		SU	1.0	Field Sampling	280-166260	03/21/2013 0920
Field Conductivity	9642		umhos/cm	1.0	Field Sampling	280-166260	03/21/2013 0920
Field Temperature	6.3		Degrees C	1.0	Field Sampling	280-166260	03/21/2013 0920
Field Turbidity	13.7		NTU	1.0	Field Sampling	280-166260	03/21/2013 0920
Field Dissolved Oxygen	2.1		mg/L	1.0	Field Sampling	280-166260	03/21/2013 0920
Field EH/ORP	-123		millivolts	1.0	Field Sampling	280-166260	03/21/2013 0920

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-40204-1

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		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	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.
	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
	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.
	F	RPD of the MS and MSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Waste Management

Job Number: 280-40204-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-166922					
LCS 280-166922/4	Lab Control Sample	T	Water	8260B	
MB 280-166922/5	Method Blank	T	Water	8260B	
280-40204-1	3406-T01	T	Water	8260B	
280-40204-2TB	TRIP BLANK	T	Water	8260B	
280-40225-B-1 MS	Matrix Spike	T	Water	8260B	
280-40225-B-1 MSD	Matrix Spike Duplicate	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-40204-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-166451					
LCS 280-166451/2-A	Lab Control Sample	T	Water	7470A	
MB 280-166451/1-A	Method Blank	T	Water	7470A	
280-40182-A-1-E MS	Matrix Spike	T	Water	7470A	
280-40182-A-1-F MSD	Matrix Spike Duplicate	T	Water	7470A	
280-40204-1	3406-T01	T	Water	7470A	
Prep Batch: 280-167011					
LCS 280-167011/2-A	Lab Control Sample	R	Water	3005A	
MB 280-167011/1-A	Method Blank	R	Water	3005A	
280-40204-1	3406-T01	R	Water	3005A	
280-40204-1DL	3406-T01	R	Water	3005A	
280-40204-1MS	Matrix Spike	R	Water	3005A	
280-40204-1MSD	Matrix Spike Duplicate	R	Water	3005A	
Prep Batch: 280-167012					
LCS 280-167012/2-A	Lab Control Sample	R	Water	3005A	
MB 280-167012/1-A	Method Blank	R	Water	3005A	
280-40204-1	3406-T01	R	Water	3005A	
280-40204-1MS	Matrix Spike	R	Water	3005A	
280-40204-1MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-167173					
LCS 280-167011/2-A	Lab Control Sample	R	Water	6020A	280-167011
MB 280-167011/1-A	Method Blank	R	Water	6020A	280-167011
280-40204-1	3406-T01	R	Water	6020A	280-167011
280-40204-1DL	3406-T01	R	Water	6020A	280-167011
280-40204-1MS	Matrix Spike	R	Water	6020A	280-167011
280-40204-1MSD	Matrix Spike Duplicate	R	Water	6020A	280-167011
Analysis Batch:280-167352					
LCS 280-167012/2-A	Lab Control Sample	R	Water	6010C	280-167012
MB 280-167012/1-A	Method Blank	R	Water	6010C	280-167012
280-40204-1	3406-T01	R	Water	6010C	280-167012
280-40204-1MS	Matrix Spike	R	Water	6010C	280-167012
280-40204-1MSD	Matrix Spike Duplicate	R	Water	6010C	280-167012
Analysis Batch:280-167422					
LCS 280-166451/2-A	Lab Control Sample	T	Water	7470A	280-166451
MB 280-166451/1-A	Method Blank	T	Water	7470A	280-166451
280-40182-A-1-E MS	Matrix Spike	T	Water	7470A	280-166451
280-40182-A-1-F MSD	Matrix Spike Duplicate	T	Water	7470A	280-166451
280-40204-1	3406-T01	T	Water	7470A	280-166451

Client: Waste Management

Job Number: 280-40204-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-167599					
280-40204-1	3406-T01	R	Water	6010C	280-167012
280-40204-1MS	Matrix Spike	R	Water	6010C	280-167012
280-40204-1MSD	Matrix Spike Duplicate	R	Water	6010C	280-167012

Report Basis
R = Total Recoverable
T = Total

Field Service / Mobile Lab					
Analysis Batch:280-166260					
280-40204-1	3406-T01	T	Water	Field Sampling	

Report Basis
T = Total

Client: Waste Management

Job Number: 280-40204-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-166287					
LCS 280-166287/4	Lab Control Sample	T	Water	SM5210B	
LCSD 280-166287/5	Lab Control Sample Duplicate	T	Water	SM5210B	
MB 280-166287/6	Method Blank	T	Water	SM5210B	
280-40204-1	3406-T01	T	Water	SM5210B	
280-40233-A-2 DU	Duplicate	T	Water	SM5210B	
Analysis Batch:280-166776					
LCS 280-166776/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-166776/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-166776/1	Method Blank	T	Water	SM 2540C	
280-40204-1	3406-T01	T	Water	SM 2540C	
280-40239-D-1 DU	Duplicate	T	Water	SM 2540C	
Prep Batch: 280-167025					
LCS 280-167023/2-B	Lab Control Sample	T	Water	365.2/365.3/365	
LCSD 280-167023/3-B	Lab Control Sample Duplicate	T	Water	365.2/365.3/365	
MB 280-167023/1-B	Method Blank	T	Water	365.2/365.3/365	
MB 280-167025/5-A	Method Blank	T	Water	365.2/365.3/365	
280-40204-1	3406-T01	T	Water	365.2/365.3/365	
280-40239-E-1-B MS	Matrix Spike	T	Water	365.2/365.3/365	
280-40239-E-1-C MSD	Matrix Spike Duplicate	T	Water	365.2/365.3/365	
Analysis Batch:280-167093					
LCS 280-167093/19	Lab Control Sample	T	Water	350.1	
LCSD 280-167093/20	Lab Control Sample Duplicate	T	Water	350.1	
MB 280-167093/21	Method Blank	T	Water	350.1	
280-40096-C-4 MS	Matrix Spike	T	Water	350.1	
280-40096-C-4 MSD	Matrix Spike Duplicate	T	Water	350.1	
280-40204-1	3406-T01	T	Water	350.1	
Analysis Batch:280-167102					
LCS 280-167102/1	Lab Control Sample	T	Water	SM 2540D	
LCSD 280-167102/2	Lab Control Sample Duplicate	T	Water	SM 2540D	
MB 280-167102/3	Method Blank	T	Water	SM 2540D	
280-40204-1	3406-T01	T	Water	SM 2540D	
280-40204-1DU	Duplicate	T	Water	SM 2540D	
Analysis Batch:280-167122					
LCS 280-167122/3	Lab Control Sample	T	Water	410.4	
LCSD 280-167122/4	Lab Control Sample Duplicate	T	Water	410.4	
MB 280-167122/5	Method Blank	T	Water	410.4	
280-40204-1	3406-T01	T	Water	410.4	
280-40301-D-1 MS	Matrix Spike	T	Water	410.4	
280-40301-D-1 MSD	Matrix Spike Duplicate	T	Water	410.4	

Client: Waste Management

Job Number: 280-40204-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-167154					
LCS 280-167154/39	Lab Control Sample	T	Water	300.0	
LCSD 280-167154/40	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-167154/41	Method Blank	T	Water	300.0	
280-40204-1	3406-T01	T	Water	300.0	
280-40239-C-1 DU	Duplicate	T	Water	300.0	
280-40239-C-1 MS	Matrix Spike	T	Water	300.0	
280-40239-C-1 MSD	Matrix Spike Duplicate	T	Water	300.0	
Analysis Batch:280-167178					
LCS 280-167023/2-B	Lab Control Sample	T	Water	365.1	280-167025
LCSD 280-167023/3-B	Lab Control Sample Duplicate	T	Water	365.1	280-167025
MB 280-167023/1-B	Method Blank	T	Water	365.1	280-167025
MB 280-167025/5-A	Method Blank	T	Water	365.1	280-167025
280-40204-1	3406-T01	T	Water	365.1	280-167025
280-40239-E-1-B MS	Matrix Spike	T	Water	365.1	280-167025
280-40239-E-1-C MSD	Matrix Spike Duplicate	T	Water	365.1	280-167025
Analysis Batch:280-167194					
LCS 280-167194/3	Lab Control Sample	T	Water	SM 5310B	
LCSD 280-167194/4	Lab Control Sample Duplicate	T	Water	SM 5310B	
MB 280-167194/5	Method Blank	T	Water	SM 5310B	
280-39834-D-1 MS	Matrix Spike	T	Water	SM 5310B	
280-39834-D-1 MSD	Matrix Spike Duplicate	T	Water	SM 5310B	
280-40204-1	3406-T01	T	Water	SM 5310B	
Analysis Batch:280-167272					
LCS 280-167272/3	Lab Control Sample	T	Water	300.0	
LCSD 280-167272/4	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-167272/5	Method Blank	T	Water	300.0	
280-40204-1	3406-T01	T	Water	300.0	
280-40343-A-4 DU	Duplicate	T	Water	300.0	
280-40343-A-4 MS	Matrix Spike	T	Water	300.0	
280-40343-A-4 MSD	Matrix Spike Duplicate	T	Water	300.0	
Analysis Batch:280-167610					
MB 280-167610/1	Method Blank	T	Water	Nitrate by calc	
280-40204-1	3406-T01	T	Water	Nitrate by calc	
Analysis Batch:280-167666					
LCS 280-167666/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-167666/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-167666/6	Method Blank	T	Water	SM 2320B	
280-40204-1	3406-T01	T	Water	SM 2320B	
280-40347-A-1 DU	Duplicate	T	Water	SM 2320B	

Client: Waste Management

Job Number: 280-40204-1

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: 280-40204-1

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
280-40204-1	3406-T01	106	93	101	94
280-40204-2	TRIP BLANK	109	96	103	97
MB 280-166922/5		110	100	104	97
LCS 280-166922/4		103	88	100	91
280-40225-B-1 MS		103	90	99	96
280-40225-B-1 MSD		108	92	104	96

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: 280-40204-1

Method Blank - Batch: 280-166922

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-166922/5	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3377.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1824	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1824				
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: 280-40204-1

Method Blank - Batch: 280-166922

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-166922/5	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3377.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1824	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1824				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Vinyl chloride	ND		0.10	5.5
Xylenes, Total	ND		0.19	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110	70 - 127
4-Bromofluorobenzene (Surr)	100	78 - 120
Dibromofluoromethane (Surr)	104	77 - 120
Toluene-d8 (Surr)	97	80 - 125

Lab Control Sample - Batch: 280-166922

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-166922/4	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3376.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1803	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1803				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	4.29	86	70 - 135	J
1,1-Dichloroethane	5.00	4.29	86	75 - 135	J
1,1-Dichloroethene	5.00	4.53	91	71 - 136	J
1,2-Dichloropropane	5.00	4.36	87	71 - 120	
1,3-Dichlorobenzene	5.00	4.15	83	74 - 135	
Benzene	5.00	4.24	85	74 - 135	
Bromodichloromethane	5.00	4.57	91	73 - 135	
Carbon tetrachloride	5.00	4.28	86	67 - 135	J
Chlorobenzene	5.00	4.14	83	76 - 135	
Chloroform	5.00	4.44	89	76 - 120	J
Ethylbenzene	5.00	3.95	79	72 - 120	J
Methylene Chloride	5.00	4.79	96	54 - 141	J
Tetrachloroethene	5.00	3.92	78	70 - 135	
Toluene	5.00	4.20	84	73 - 120	J
trans-1,2-Dichloroethene	5.00	4.36	87	75 - 135	J
Trichloroethene	5.00	4.08	82	73 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	70 - 127
4-Bromofluorobenzene (Surr)	88	78 - 120
Dibromofluoromethane (Surr)	100	77 - 120
Toluene-d8 (Surr)	91	80 - 125

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166922

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-40225-B-1 MS	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3406.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1922			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1922				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40225-B-1 MSD	Analysis Batch:	280-166922	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3407.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1943			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1943				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	94	90	70 - 135	4	20	J	J
1,1-Dichloroethane	89	87	75 - 135	2	21	J	J
1,1-Dichloroethene	93	94	71 - 136	1	20	J	J
1,2-Dichloropropane	88	88	71 - 120	1	20		
1,3-Dichlorobenzene	87	83	74 - 135	6	20		
Benzene	89	86	74 - 135	3	20		
Bromodichloromethane	93	93	73 - 135	0	20		
Carbon tetrachloride	98	94	67 - 135	5	21	J	J
Chlorobenzene	87	84	76 - 135	4	20		
Chloroform	93	91	76 - 120	3	20	J	J
Ethylbenzene	86	82	72 - 120	5	26	J	J
Methylene Chloride	86	89	54 - 141	3	20	J	J
Tetrachloroethene	87	83	70 - 135	5	20		
Toluene	89	88	73 - 120	1	20	J	J
trans-1,2-Dichloroethene	91	88	75 - 135	3	24	J	J
Trichloroethene	88	86	73 - 135	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	108	70 - 127
4-Bromofluorobenzene (Surr)	90	92	78 - 120
Dibromofluoromethane (Surr)	99	104	77 - 120
Toluene-d8 (Surr)	96	96	80 - 125

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166922

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-40225-B-1 MS	Units: ug/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/27/2013 1922		
Prep Date:	03/27/2013 1922		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40225-B-1 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/27/2013 1943
Prep Date:	03/27/2013 1943
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	4.71	J	4.51	J
1,1-Dichloroethane	ND	5.00	5.00	4.47	J	4.37	J
1,1-Dichloroethene	ND	5.00	5.00	4.65	J	4.69	J
1,2-Dichloropropane	ND	5.00	5.00	4.40		4.38	
1,3-Dichlorobenzene	ND	5.00	5.00	4.37		4.14	
Benzene	ND	5.00	5.00	4.46		4.31	
Bromodichloromethane	ND	5.00	5.00	4.64		4.63	
Carbon tetrachloride	ND	5.00	5.00	4.91	J	4.69	J
Chlorobenzene	ND	5.00	5.00	4.36		4.20	
Chloroform	ND	5.00	5.00	4.66	J	4.54	J
Ethylbenzene	ND	5.00	5.00	4.30	J	4.09	J
Methylene Chloride	ND	5.00	5.00	4.32	J	4.46	J
Tetrachloroethene	ND	5.00	5.00	4.37		4.15	
Toluene	ND	5.00	5.00	4.44	J	4.39	J
trans-1,2-Dichloroethene	ND	5.00	5.00	4.54	J	4.39	J
Trichloroethene	ND	5.00	5.00	4.39		4.28	

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167012

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-167012/1-A	Analysis Batch:	280-167352	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-167012	Lab File ID:	26A3032913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2227	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	ND		0.58	100
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Calcium	ND		35	200
Copper	ND		1.4	15
Lead	ND		2.6	10
Nickel	ND		1.3	50
Iron	ND		22	100
Zinc	ND		4.5	20
Vanadium	ND		1.1	25
Magnesium	ND		11	200
Manganese	ND		0.25	10
Selenium	ND		4.9	15
Silver	ND		0.93	10
Potassium	ND		240	3000
Sodium	ND	^	92	5000

Client: Waste Management

Job Number: 280-40204-1

Lab Control Sample - Batch: 280-167012

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-167012/2-A	Analysis Batch:	280-167352	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-167012	Lab File ID:	26A3032913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2230	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2100	105	90 - 112	
Chromium	200	203	101	90 - 113	
Cobalt	500	508	102	89 - 111	
Calcium	50000	51000	102	90 - 111	
Copper	250	259	104	86 - 112	
Lead	500	510	102	89 - 110	
Nickel	500	502	100	89 - 111	
Iron	1000	1010	101	89 - 115	
Zinc	500	499	100	85 - 111	
Vanadium	500	514	103	90 - 111	
Magnesium	50000	50800	102	90 - 113	
Manganese	500	513	103	90 - 110	
Selenium	2000	2060	103	85 - 112	
Silver	50.0	54.1	108	86 - 115	
Potassium	50000	54400	109	89 - 114	
Sodium	50000	55300	111	90 - 115	^

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167012

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40204-1	Analysis Batch:	280-167352	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-167012	Lab File ID:	26A3032913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2238			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40204-1	Analysis Batch:	280-167352	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-167012	Lab File ID:	26A3032913.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 2241			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	109	109	85 - 120	0	20		
Chromium	104	102	73 - 135	1	20		
Cobalt	101	101	82 - 119	0	20		
Calcium	104	104	48 - 153	0	20		
Copper	110	110	82 - 129	0	20		
Lead	99	99	89 - 121	0	20		
Nickel	98	97	84 - 120	1	20		
Iron	125	124	52 - 155	0	20	4	4
Zinc	106	102	60 - 137	4	20		
Vanadium	107	103	85 - 120	3	20		
Magnesium	100	94	62 - 146	4	20		
Manganese	105	98	79 - 121	3	20		
Selenium	110	109	71 - 140	1	20		
Silver	120	120	75 - 141	0	20		
Sodium	244	221	70 - 203	0	20	^ 4	^ 4

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167012

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40204-1	Analysis Batch:	280-167599	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-167012	Lab File ID:	26B040113.asc
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	04/02/2013 0042			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40204-1	Analysis Batch:	280-167599	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-167012	Lab File ID:	26B040113.asc
Dilution:	10	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	04/02/2013 0044			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Potassium	107	111	76 - 132	0	20	4	4

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167012

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40204-1	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/29/2013 2238		
Prep Date:	03/28/2013 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40204-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/29/2013 2241
Prep Date:	03/28/2013 1400
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Barium	730		2000	2000	2900		2910	
Chromium	240		200	200	444		441	
Cobalt	58		500	500	564		563	
Calcium	36000		50000	50000	88500		88400	
Copper	47		250	250	321		322	
Lead	ND		500	500	496		494	
Nickel	420		500	500	910		905	
Iron	9900		1000	1000	11100	4	11100	4
Zinc	32		500	500	564		543	
Vanadium	140		500	500	678		658	
Magnesium	34000		50000	50000	84100		81000	
Manganese	720		500	500	1250		1210	
Selenium	6.8	J	2000	2000	2200		2190	
Silver	ND		50.0	50.0	60.0		60.0	
Sodium	2400000		50000	50000	2520000	^ 4	2510000	^ 4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167012

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40204-1	Units:	ug/L
Client Matrix:	Water		
Dilution:	10		
Analysis Date:	04/02/2013 0042		
Prep Date:	03/28/2013 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40204-1
Client Matrix:	Water
Dilution:	10
Analysis Date:	04/02/2013 0044
Prep Date:	03/28/2013 1400
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Potassium	500000		50000	50000	556000	4	558000	4

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167011

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-167011/1-A	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167011	Lab File ID:	090_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2331	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	2.0
Arsenic	ND		0.33	5.0
Beryllium	ND		0.080	1.0
Cadmium	ND		0.10	1.0
Thallium	ND		0.050	1.0

Lab Control Sample - Batch: 280-167011

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-167011/2-A	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167011	Lab File ID:	091_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2334	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	38.5	96	85 - 115	
Arsenic	40.0	41.9	105	85 - 117	
Beryllium	40.0	40.3	101	80 - 125	
Cadmium	40.0	41.3	103	85 - 115	
Thallium	40.0	43.6	109	85 - 118	

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167011

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40204-1	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167011	Lab File ID:	095_MS.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2346			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40204-1	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167011	Lab File ID:	096_MSD.D
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/28/2013 2349			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	101	103	85 - 115	1	20		
Arsenic	110	115	85 - 115	2	20		
Cadmium	98	99	85 - 115	1	20		
Thallium	96	96	85 - 118	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167011

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40204-1	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167011	Lab File ID:	105_MS.D
Dilution:	25	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0015			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40204-1	Analysis Batch:	280-167173	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-167011	Lab File ID:	106_MSD.D
Dilution:	25	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0018			Final Weight/Volume:	50 mL
Prep Date:	03/28/2013 1400				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Beryllium	79	81	80 - 125	3	20	F	

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167011

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40204-1	Units:	ug/L
Client Matrix:	Water		
Dilution:	5.0		
Analysis Date:	03/28/2013 2346		
Prep Date:	03/28/2013 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40204-1
Client Matrix:	Water
Dilution:	5.0
Analysis Date:	03/28/2013 2349
Prep Date:	03/28/2013 1400
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony	23		40.0	40.0	63.2	63.9
Arsenic	48		40.0	40.0	92.2	94.0
Cadmium	2.6	J	40.0	40.0	41.8	42.2
Thallium	ND		40.0	40.0	38.3	38.2

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167011

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40204-1	Units:	ug/L
Client Matrix:	Water		
Dilution:	25		
Analysis Date:	03/29/2013 0015		
Prep Date:	03/28/2013 1400		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40204-1
Client Matrix:	Water
Dilution:	25
Analysis Date:	03/29/2013 0018
Prep Date:	03/28/2013 1400
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
Beryllium	ND		40.0	40.0	31.5	F	32.5

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-166451

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 280-166451/1-A	Analysis Batch:	280-167422	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-166451	Lab File ID:	130329tac.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	03/29/2013 1951	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	03/29/2013 1230				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.027	0.20

Lab Control Sample - Batch: 280-166451

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 280-166451/2-A	Analysis Batch:	280-167422	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-166451	Lab File ID:	130329tac.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	03/29/2013 1953	Units:	ug/L	Final Weight/Volume:	30 mL
Prep Date:	03/29/2013 1230				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	4.62	92	84 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166451

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	280-40182-A-1-E MS	Analysis Batch:	280-167422	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-166451	Lab File ID:	130329tac.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	03/29/2013 1958			Final Weight/Volume:	30 mL
Prep Date:	03/29/2013 1230				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40182-A-1-F MSD	Analysis Batch:	280-167422	Instrument ID:	MT_034
Client Matrix:	Water	Prep Batch:	280-166451	Lab File ID:	130329tac.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30 mL
Analysis Date:	03/29/2013 2000			Final Weight/Volume:	30 mL
Prep Date:	03/29/2013 1230				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	94	96	75 - 125	2	20		

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166451

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	280-40182-A-1-E MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/29/2013 1958		
Prep Date:	03/29/2013 1230		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40182-A-1-F MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/29/2013 2000
Prep Date:	03/29/2013 1230
Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	5.00	5.00	4.69	4.79

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167154

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-167154/41	Analysis Batch:	280-167154	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1947	Units:	mg/L	Final Weight/Volume:	
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: 280-167154

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-167154/3	Analysis Batch:	280-167154	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 0941	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	1.09	109	50 - 150	J
Sulfate	1.00	1.14	114	50 - 150	J

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-167154

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167154/39	Analysis Batch:	280-167154	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1916	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-167154/40	Analysis Batch:	280-167154	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.csv
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1932	Units:	mg/L	Final Weight/Volume:	
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	104	103	90 - 110	0	10		

Client: Waste Management

Job Number: 280-40204-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-167154

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167154/39	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-167154/40
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/28/2013 1916			Analysis Date:	03/28/2013 1932
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	25.3	25.2
Sulfate	25.0	25.0	25.9	25.9

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167154

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-40239-C-1 MS	Analysis Batch:	280-167154	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.csv
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 2134			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40239-C-1 MSD	Analysis Batch:	280-167154	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.csv
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 2220			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	101	103	80 - 120	1	20	E	E

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167154

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-40239-C-1 MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	5.0		
Analysis Date:	03/28/2013 2134		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40239-C-1 MSD
Client Matrix:	Water
Dilution:	5.0
Analysis Date:	03/28/2013 2220
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	2.8	125	125	130		131	
Sulfate	130	125	125	262	E	264	E

Duplicate - Batch: 280-167154

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-40239-C-1 DU	Analysis Batch:	280-167154	Instrument ID:	WC_IC10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.csv
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 2119	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	2.8	3.01	8	15	
Sulfate	130	136	0.7	15	

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167272

Method: 300.0
Preparation: N/A

Lab Sample ID:	MB 280-167272/5	Analysis Batch:	280-167272	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1424	Units:	mg/L	Final Weight/Volume:	
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: 280-167272

Method: 300.0
Preparation: N/A

Lab Sample ID:	MRL 280-167272/6	Analysis Batch:	280-167272	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1443	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	1.02	102	50 - 150	J
Sulfate	1.00	1.22	122	50 - 150	J

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-167272

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167272/3	Analysis Batch:	280-167272	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1350	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-167272/4	Analysis Batch:	280-167272	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1407	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chloride	100	100	90 - 110	0	10		
Sulfate	104	104	90 - 110	0	10		

Client: Waste Management

Job Number: 280-40204-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-167272

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167272/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-167272/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/28/2013 1350			Analysis Date:	03/28/2013 1407
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	25.0	25.0
Sulfate	25.0	25.0	25.9	25.9

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167272

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-40343-A-4 MS	Analysis Batch:	280-167272	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	137.TXT
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/29/2013 0039			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40343-A-4 MSD	Analysis Batch:	280-167272	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	140.TXT
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/29/2013 0130			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	105	107	80 - 120	1	20		
Sulfate	96	93	80 - 120	1	20	E	

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167272

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-40343-A-4 MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	100		
Analysis Date:	03/29/2013 0039		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40343-A-4 MSD
Client Matrix:	Water
Dilution:	100
Analysis Date:	03/29/2013 0130
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	380	2500	2500	3000		3040
Sulfate	2700	2500	2500	5050	E	4970

Duplicate - Batch: 280-167272

Method: 300.0
Preparation: N/A

Lab Sample ID:	280-40343-A-4 DU	Analysis Batch:	280-167272	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	136.TXT
Dilution:	100	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/29/2013 0022	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Chloride	380	364	3	15	
Sulfate	2700	2560	4	15	

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167093

Method: 350.1
Preparation: N/A

Lab Sample ID:	MB 280-167093/21	Analysis Batch:	280-167093	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\032813.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1330	Units:	mg/L	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Ammonia	ND		0.022	0.040

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-167093

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167093/19	Analysis Batch:	280-167093	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\032813.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1325	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-167093/20	Analysis Batch:	280-167093	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\032813.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1327	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	102	90 - 110	2	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-167093

Method: 350.1
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167093/19	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-167093/20
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/28/2013 1325			Analysis Date:	03/28/2013 1327
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	2.50	2.50	2.50	2.54

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167093

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-40096-C-4 MS	Analysis Batch:	280-167093	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\032813.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1419			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40096-C-4 MSD	Analysis Batch:	280-167093	Instrument ID:	WC_Alp 3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	E:\FLOW_4\032813.RS
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 1421			Final Weight/Volume:	20 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Ammonia	110	110	90 - 110	0	10		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167093

Method: 350.1
Preparation: N/A

MS Lab Sample ID:	280-40096-C-4 MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/28/2013 1419		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40096-C-4 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/28/2013 1421
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	ND	1.00	1.00	1.10	1.10

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167025

Method: 365.1
Preparation: 365.2/365.3/365

Lab Sample ID:	MB 280-167025/5-A	Analysis Batch:	280-167178	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-167025	Lab File ID:	032813tphosa.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	03/28/2013 1458	Units:	mg/L	Final Weight/Volume:	50.0 mL
Prep Date:	03/28/2013 1012				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Phosphorus, Total	ND		0.0050	0.050

Method Blank - Batch: 280-167025

Method: 365.1
Preparation: 365.2/365.3/365

Lab Sample ID:	MB 280-167023/1-B	Analysis Batch:	280-167178	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-167025	Lab File ID:	032813tphosa.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	03/28/2013 1542	Units:	mg/L	Final Weight/Volume:	50.0 mL
Prep Date:	03/28/2013 1012				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Phosphorus, Total	0.0161	J	0.0050	0.050

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-167025

Method: 365.1
Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-167023/2-B	Analysis Batch:	280-167178	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-167025	Lab File ID:	032813tphosa.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	03/28/2013 1542	Units:	mg/L	Final Weight/Volume:	50.0 mL
Prep Date:	03/28/2013 1012				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-167023/3-B	Analysis Batch:	280-167178	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-167025	Lab File ID:	032813tphosa.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	03/28/2013 1542	Units:	mg/L	Final Weight/Volume:	50.0 mL
Prep Date:	03/28/2013 1012				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Phosphorus, Total	90	91	90 - 110	1	10		

Client: Waste Management

Job Number: 280-40204-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-167025

Method: 365.1
Preparation: 365.2/365.3/365

LCS Lab Sample ID:	LCS 280-167023/2-B	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/28/2013 1542		
Prep Date:	03/28/2013 1012		
Leach Date:	N/A		

LCSD Lab Sample ID:	LCSD 280-167023/3-B
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/28/2013 1542
Prep Date:	03/28/2013 1012
Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Phosphorus, Total	0.500	0.500	0.452	0.454

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167025

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-40239-E-1-B MS	Analysis Batch:	280-167178	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-167025	Lab File ID:	032813tphosa.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	03/28/2013 1527			Final Weight/Volume:	50.0 mL
Prep Date:	03/28/2013 1012				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40239-E-1-C MSD	Analysis Batch:	280-167178	Instrument ID:	WC_Konelab
Client Matrix:	Water	Prep Batch:	280-167025	Lab File ID:	032813tphosa.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50.0 mL
Analysis Date:	03/28/2013 1527			Final Weight/Volume:	50.0 mL
Prep Date:	03/28/2013 1012				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Phosphorus, Total	109	59	90 - 110	58	10		F

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167025

Method: 365.1
Preparation: 365.2/365.3/365

MS Lab Sample ID:	280-40239-E-1-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/28/2013 1527		
Prep Date:	03/28/2013 1012		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40239-E-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/28/2013 1527
Prep Date:	03/28/2013 1012
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Phosphorus, Total	0.0099	J	0.500	0.500	0.554	0.306	F

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167122

Method: 410.4
Preparation: N/A

Lab Sample ID:	MB 280-167122/5	Analysis Batch:	280-167122	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:	03/28/2013 1916	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: 280-167122

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167122/3	Analysis Batch:	280-167122	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:	100 mL
Analysis Date:	03/28/2013 1916	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-167122/4	Analysis Batch:	280-167122	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:	100 mL
Analysis Date:	03/28/2013 1916	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	98	96	90 - 110	2	11		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-167122

Method: 410.4
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167122/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-167122/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/28/2013 1916			Analysis Date:	03/28/2013 1916
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	97.6	95.6

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167122

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-40301-D-1 MS	Analysis Batch:	280-167122	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:	100 mL
Analysis Date:	03/28/2013 1916			Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40301-D-1 MSD	Analysis Batch:	280-167122	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:	100 mL
Analysis Date:	03/28/2013 1916			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	116	105	90 - 110	9	11	F	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167122

Method: 410.4
Preparation: N/A

MS Lab Sample ID:	280-40301-D-1 MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/28/2013 1916		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40301-D-1 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/28/2013 1916
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	10	J	50.0	50.0	68.0	F	62.3

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167610

Method: Nitrate by calc
Preparation: N/A

Lab Sample ID:	MB 280-167610/1	Analysis Batch:	280-167610	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:	03/22/2013 1522	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrate as N	ND		0.019	0.50

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167666

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	MB 280-167666/6	Analysis Batch:	280-167666	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	040213.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1125	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Alkalinity	2.61	J	1.1	5.0
Bicarbonate Alkalinity as CaCO3	2.61	J	1.1	5.0
Carbonate Alkalinity as CaCO3	ND		1.1	5.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-167666

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167666/4	Analysis Batch:	280-167666	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	040213.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1117	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-167666/5	Analysis Batch:	280-167666	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	040213.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1121	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Total Alkalinity	96	95	90 - 110	1	10		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-167666

Method: SM 2320B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167666/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-167666/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/02/2013 1117			Analysis Date:	04/02/2013 1121
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	191	189

Client: Waste Management

Job Number: 280-40204-1

Duplicate - Batch: 280-167666

Method: SM 2320B
Preparation: N/A

Lab Sample ID:	280-40347-A-1 DU	Analysis Batch:	280-167666	Instrument ID:	WC-AT3
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	040213.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/02/2013 1133	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	3700	3710	2	10	

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-166776

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	MB 280-166776/1	Analysis Batch:	280-166776	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:	03/27/2013 0757	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: 280-166776

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-166776/2	Analysis Batch:	280-166776	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:	03/27/2013 0757	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-166776/3	Analysis Batch:	280-166776	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:	03/27/2013 0757	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	97	98	86 - 110	1	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-166776

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID:	LCS 280-166776/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-166776/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/27/2013 0757			Analysis Date:	03/27/2013 0757
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	501	501	487	491

Client: Waste Management

Job Number: 280-40204-1

Duplicate - Batch: 280-166776

Method: SM 2540C
Preparation: N/A

Lab Sample ID:	280-40239-D-1 DU	Analysis Batch:	280-166776	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:	03/27/2013 0757	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	590	581	2	10	

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167102

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 280-167102/3	Analysis Batch:	280-167102	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:	03/28/2013 1633	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: 280-167102

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167102/1	Analysis Batch:	280-167102	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:	03/28/2013 1633	Units:	mg/L	Final Weight/Volume:	250 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-167102/2	Analysis Batch:	280-167102	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:	03/28/2013 1633	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	93	93	86 - 114	0	20		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-167102

Method: SM 2540D
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167102/1	Units: mg/L	LCSD Lab Sample ID: LCSD 280-167102/2
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Analysis Date:	03/28/2013 1633		Analysis Date: 03/28/2013 1633
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	93.0	93.0

Client: Waste Management

Job Number: 280-40204-1

Duplicate - Batch: 280-167102

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	280-40204-1	Analysis Batch:	280-167102	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:	150 mL
Analysis Date:	03/28/2013 1633	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	41	38.7	7	10	

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-167194

Method: SM 5310B
Preparation: N/A

Lab Sample ID:	MB 280-167194/5	Analysis Batch:	280-167194	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/29/2013 0030	Units:	mg/L	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Organic Carbon - Average	ND		0.16	1.0

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-167194

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167194/3	Analysis Batch:	280-167194	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/28/2013 2353	Units:	mg/L	Final Weight/Volume:	200 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-167194/4	Analysis Batch:	280-167194	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/29/2013 0011	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	101	101	88 - 112	0	15		

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-167194

Method: SM 5310B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-167194/3	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-167194/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	03/28/2013 2353			Analysis Date:	03/29/2013 0011
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	25.3	25.3

Client: Waste Management

Job Number: 280-40204-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167194

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-39834-D-1 MS	Analysis Batch:	280-167194	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/29/2013 0118			Final Weight/Volume:	50 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-39834-D-1 MSD	Analysis Batch:	280-167194	Instrument ID:	WC_SHI2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	032813.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	03/29/2013 0136			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	101	102	88 - 112	0	15		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-167194

Method: SM 5310B
Preparation: N/A

MS Lab Sample ID:	280-39834-D-1 MS	Units: mg/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/29/2013 0118		
Prep Date:	N/A		
Leach Date:	N/A		

MSD Lab Sample ID:	280-39834-D-1 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/29/2013 0136
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	4.6	25.0	25.0	30.0	30.0

Client: Waste Management

Job Number: 280-40204-1

Method Blank - Batch: 280-166287

Method: SM5210B
Preparation: N/A

Lab Sample ID:	MB 280-166287/6	Analysis Batch:	280-166287	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:	03/22/2013 1923	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 - Batch: 280-166287

Method: SM5210B
Preparation: N/A

Lab Sample ID:	LCS 280-166287/4	Analysis Batch:	280-166287	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:	03/22/2013 1923	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	206	104	85 - 115	

Duplicate - Batch: 280-166287

Method: SM5210B
Preparation: N/A

Lab Sample ID:	280-40233-A-2 DU	Analysis Batch:	280-166287	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:	03/22/2013 1923	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	360	336	6	20	

Client: Waste Management

Job Number: 280-40204-1

Laboratory Chronicle

Lab ID: **280-40204-1** **Client ID:** **3406-T01**

Sample Date/Time: 03/21/2013 09:20 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40204-K-1		280-166922		03/27/2013 23:52	1	TAL DEN	MRM
A:8260B	280-40204-K-1		280-166922		03/27/2013 23:52	1	TAL DEN	MRM
P:3005A	280-40204-A-1-D		280-167352	280-167012	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	280-40204-A-1-D		280-167352	280-167012	03/29/2013 22:32	1	TAL DEN	HEB
P:3005A	280-40204-A-1-D ^10		280-167599	280-167012	03/28/2013 14:00	10	TAL DEN	RC
A:6010C	280-40204-A-1-D ^10		280-167599	280-167012	04/02/2013 00:37	10	TAL DEN	HEB
P:3005A	280-40204-H-1-F ^5		280-167173	280-167011	03/28/2013 14:00	5	TAL DEN	RC
A:6020A	280-40204-H-1-F ^5		280-167173	280-167011	03/28/2013 23:37	5	TAL DEN	TEL
P:3005A	280-40204-H-1-F ^25	DL	280-167173	280-167011	03/28/2013 14:00	25	TAL DEN	RC
A:6020A	280-40204-H-1-F ^25	DL	280-167173	280-167011	03/29/2013 00:06	25	TAL DEN	TEL
P:7470A	280-40204-H-1-E		280-167422	280-166451	03/29/2013 12:30	1	TAL DEN	JM
A:7470A	280-40204-H-1-E		280-167422	280-166451	03/29/2013 20:49	1	TAL DEN	NF
A:300.0	280-40204-A-1		280-167154		03/28/2013 22:51	5	TAL DEN	EK
A:300.0	280-40204-A-1		280-167272		03/29/2013 09:55	100	TAL DEN	TLP
A:350.1	280-40204-E-1		280-167093		03/28/2013 15:36	400	TAL DEN	DE
P:365.2/365.3/365	280-40204-D-1-A		280-167178	280-167025	03/28/2013 10:12	20	TAL DEN	SJS
A:365.1	280-40204-D-1-A		280-167178	280-167025	03/28/2013 16:00	20	TAL DEN	SJS
A:410.4	280-40204-E-1		280-167122		03/28/2013 19:16	20	TAL DEN	DFB
A:Nitrate by calc	280-40204-A-1		280-167610		03/22/2013 15:22	1	TAL DEN	RS
A:SM 2320B	280-40204-A-1		280-167666		04/02/2013 11:38	1	TAL DEN	AK
A:SM 2540C	280-40204-A-1		280-166776		03/27/2013 07:57	1	TAL DEN	SB
A:SM 2540D	280-40204-B-1		280-167102		03/28/2013 16:33	1	TAL DEN	MW
A:SM 5310B	280-40204-G-1		280-167194		03/29/2013 02:29	20	TAL DEN	DFB
A:SM5210B	280-40204-A-1		280-166287		03/22/2013 19:23	5	TAL DEN	DA
A:Field Sampling	280-40204-A-1		280-166260		03/21/2013 09:20	1	TAL DEN	FS

Lab ID: **280-40204-1 MS** **Client ID:** **3406-T01**

Sample Date/Time: 03/21/2013 09:20 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40204-A-1-E MS		280-167352	280-167012	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	280-40204-A-1-E MS		280-167352	280-167012	03/29/2013 22:38	1	TAL DEN	HEB
P:3005A	280-40204-A-1-E MS ^10		280-167599	280-167012	03/28/2013 14:00	10	TAL DEN	RC
A:6010C	280-40204-A-1-E MS ^10		280-167599	280-167012	04/02/2013 00:42	10	TAL DEN	HEB
P:3005A	280-40204-H-1-G MS ^5		280-167173	280-167011	03/28/2013 14:00	5	TAL DEN	RC
A:6020A	280-40204-H-1-G MS ^5		280-167173	280-167011	03/28/2013 23:46	5	TAL DEN	TEL
P:3005A	280-40204-H-1-G MS ^25		280-167173	280-167011	03/28/2013 14:00	25	TAL DEN	RC
A:6020A	280-40204-H-1-G MS ^25		280-167173	280-167011	03/29/2013 00:15	25	TAL DEN	TEL

Client: Waste Management

Job Number: 280-40204-1

Laboratory Chronicle

Lab ID: **280-40204-1 MSD** **Client ID:** **3406-T01**

Sample Date/Time: 03/21/2013 09:20 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40204-A-1-F MSD		280-167352	280-167012	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	280-40204-A-1-F MSD		280-167352	280-167012	03/29/2013 22:41	1	TAL DEN	HEB
P:3005A	280-40204-A-1-F MSD ^10		280-167599	280-167012	03/28/2013 14:00	10	TAL DEN	RC
A:6010C	280-40204-A-1-F MSD ^10		280-167599	280-167012	04/02/2013 00:44	10	TAL DEN	HEB
P:3005A	280-40204-H-1-H MSD ^5		280-167173	280-167011	03/28/2013 14:00	5	TAL DEN	RC
A:6020A	280-40204-H-1-H MSD ^5		280-167173	280-167011	03/28/2013 23:49	5	TAL DEN	TEL
P:3005A	280-40204-H-1-H MSD ^25		280-167173	280-167011	03/28/2013 14:00	25	TAL DEN	RC
A:6020A	280-40204-H-1-H MSD ^25		280-167173	280-167011	03/29/2013 00:18	25	TAL DEN	TEL

Lab ID: **280-40204-1 DU** **Client ID:** **3406-T01**

Sample Date/Time: 03/21/2013 09:20 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540D	280-40204-B-1 DU		280-167102		03/28/2013 16:33	1	TAL DEN	MW

Lab ID: **280-40204-2** **Client ID:** **TRIP BLANK**

Sample Date/Time: 03/21/2013 09:20 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40204-A-2		280-166922		03/27/2013 21:47	1	TAL DEN	MRM
A:8260B	280-40204-A-2		280-166922		03/27/2013 21:47	1	TAL DEN	MRM

Client: Waste Management

Job Number: 280-40204-1

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 280-166922/5		280-166922		03/27/2013 18:24	1	TAL DEN	MRM
A:8260B	MB 280-166922/5		280-166922		03/27/2013 18:24	1	TAL DEN	MRM
P:3005A	MB 280-167012/1-A		280-167352	280-167012	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	MB 280-167012/1-A		280-167352	280-167012	03/29/2013 22:27	1	TAL DEN	HEB
P:3005A	MB 280-167011/1-A		280-167173	280-167011	03/28/2013 14:00	1	TAL DEN	RC
A:6020A	MB 280-167011/1-A		280-167173	280-167011	03/28/2013 23:31	1	TAL DEN	TEL
P:7470A	MB 280-166451/1-A		280-167422	280-166451	03/29/2013 12:30	1	TAL DEN	JM
A:7470A	MB 280-166451/1-A		280-167422	280-166451	03/29/2013 19:51	1	TAL DEN	NF
A:300.0	MB 280-167272/5		280-167272		03/28/2013 14:24	1	TAL DEN	TLP
A:300.0	MB 280-167154/41		280-167154		03/28/2013 19:47	1	TAL DEN	EK
A:350.1	MB 280-167093/21		280-167093		03/28/2013 13:30	1	TAL DEN	DE
P:365.2/365.3/365	MB 280-167025/5-A		280-167178	280-167025	03/28/2013 10:12	1	TAL DEN	SJS
A:365.1	MB 280-167025/5-A		280-167178	280-167025	03/28/2013 14:58	1	TAL DEN	SJS
P:365.2/365.3/365	MB 280-167023/1-B		280-167178	280-167025	03/28/2013 10:12	1	TAL DEN	SJS
A:365.1	MB 280-167023/1-B		280-167178	280-167025	03/28/2013 15:42	1	TAL DEN	SJS
A:410.4	MB 280-167122/5		280-167122		03/28/2013 19:16	1	TAL DEN	DFB
A:Nitrate by calc	MB 280-167610/1		280-167610		03/22/2013 15:22	1	TAL DEN	RS
A:SM 2320B	MB 280-167666/6		280-167666		04/02/2013 11:25	1	TAL DEN	AK
A:SM 2540C	MB 280-166776/1		280-166776		03/27/2013 07:57	1	TAL DEN	SB
A:SM 2540D	MB 280-167102/3		280-167102		03/28/2013 16:33	1	TAL DEN	MW
A:SM 5310B	MB 280-167194/5		280-167194		03/29/2013 00:30	1	TAL DEN	DFB
A:SM5210B	MB 280-166287/6		280-166287		03/22/2013 19:23	1	TAL DEN	DA

Client: Waste Management

Job Number: 280-40204-1

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 280-166922/4		280-166922		03/27/2013 18:03	1	TAL DEN	MRM
A:8260B	LCS 280-166922/4		280-166922		03/27/2013 18:03	1	TAL DEN	MRM
P:3005A	LCS 280-167012/2-A		280-167352	280-167012	03/28/2013 14:00	1	TAL DEN	RC
A:6010C	LCS 280-167012/2-A		280-167352	280-167012	03/29/2013 22:30	1	TAL DEN	HEB
P:3005A	LCS 280-167011/2-A		280-167173	280-167011	03/28/2013 14:00	1	TAL DEN	RC
A:6020A	LCS 280-167011/2-A		280-167173	280-167011	03/28/2013 23:34	1	TAL DEN	TEL
P:7470A	LCS 280-166451/2-A		280-167422	280-166451	03/29/2013 12:30	1	TAL DEN	JM
A:7470A	LCS 280-166451/2-A		280-167422	280-166451	03/29/2013 19:53	1	TAL DEN	NF
A:300.0	LCS 280-167272/3		280-167272		03/28/2013 13:50	1	TAL DEN	TLP
A:300.0	LCS 280-167154/39		280-167154		03/28/2013 19:16	1	TAL DEN	EK
A:350.1	LCS 280-167093/19		280-167093		03/28/2013 13:25	1	TAL DEN	DE
P:365.2/365.3/365	LCS 280-167023/2-B		280-167178	280-167025	03/28/2013 10:12	1	TAL DEN	SJS
A:365.1	LCS 280-167023/2-B		280-167178	280-167025	03/28/2013 15:42	1	TAL DEN	SJS
A:410.4	LCS 280-167122/3		280-167122		03/28/2013 19:16	1	TAL DEN	DFB
A:SM 2320B	LCS 280-167666/4		280-167666		04/02/2013 11:17	1	TAL DEN	AK
A:SM 2540C	LCS 280-166776/2		280-166776		03/27/2013 07:57	1	TAL DEN	SB
A:SM 2540D	LCS 280-167102/1		280-167102		03/28/2013 16:33	1	TAL DEN	MW
A:SM 5310B	LCS 280-167194/3		280-167194		03/28/2013 23:53	1	TAL DEN	DFB
A:SM5210B	LCS 280-166287/4		280-166287		03/22/2013 19:23	1	TAL DEN	DA

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
A:300.0	LCSD 280-167272/4		280-167272		03/28/2013 14:07	1	TAL DEN	TLP
A:300.0	LCSD 280-167154/40		280-167154		03/28/2013 19:32	1	TAL DEN	EK
A:350.1	LCSD 280-167093/20		280-167093		03/28/2013 13:27	1	TAL DEN	DE
P:365.2/365.3/365	LCSD 280-167023/3-B		280-167178	280-167025	03/28/2013 10:12	1	TAL DEN	SJS
A:365.1	LCSD 280-167023/3-B		280-167178	280-167025	03/28/2013 15:42	1	TAL DEN	SJS
A:410.4	LCSD 280-167122/4		280-167122		03/28/2013 19:16	1	TAL DEN	DFB
A:SM 2320B	LCSD 280-167666/5		280-167666		04/02/2013 11:21	1	TAL DEN	AK
A:SM 2540C	LCSD 280-166776/3		280-166776		03/27/2013 07:57	1	TAL DEN	SB
A:SM 2540D	LCSD 280-167102/2		280-167102		03/28/2013 16:33	1	TAL DEN	MW
A:SM 5310B	LCSD 280-167194/4		280-167194		03/29/2013 00:11	1	TAL DEN	DFB
A:SM5210B	LCSD 280-166287/5		280-166287		03/22/2013 19:23	1	TAL DEN	DA

Client: Waste Management

Job Number: 280-40204-1

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 280-167154/3		280-167154		03/28/2013 09:41	1	TAL DEN	EK
A:300.0	MRL 280-167272/6		280-167272		03/28/2013 14:43	1	TAL DEN	TLP

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	280-40225-B-1 MS		280-166922		03/27/2013 19:22	1	TAL DEN	MRM
A:8260B	280-40225-B-1 MS		280-166922		03/27/2013 19:22	1	TAL DEN	MRM
P:7470A	280-40182-A-1-E MS		280-167422	280-166451	03/29/2013 12:30	1	TAL DEN	JM
A:7470A	280-40182-A-1-E MS		280-167422	280-166451	03/29/2013 19:58	1	TAL DEN	NF
A:300.0	280-40239-C-1 MS		280-167154		03/28/2013 21:34	5	TAL DEN	EK
A:300.0	280-40343-A-4 MS		280-167272		03/29/2013 00:39	100	TAL DEN	TLP
A:350.1	280-40096-C-4 MS		280-167093		03/28/2013 14:19	1	TAL DEN	DE
P:365.2/365.3/365	280-40239-E-1-B MS		280-167178	280-167025	03/28/2013 10:12	1	TAL DEN	SJS
A:365.1	280-40239-E-1-B MS		280-167178	280-167025	03/28/2013 15:27	1	TAL DEN	SJS
A:410.4	280-40301-D-1 MS		280-167122		03/28/2013 19:16	1	TAL DEN	DFB
A:SM 5310B	280-39834-D-1 MS		280-167194		03/29/2013 01:18	1	TAL DEN	DFB

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	280-40225-B-1 MSD		280-166922		03/27/2013 19:43	1	TAL DEN	MRM
A:8260B	280-40225-B-1 MSD		280-166922		03/27/2013 19:43	1	TAL DEN	MRM
P:7470A	280-40182-A-1-F MSD		280-167422	280-166451	03/29/2013 12:30	1	TAL DEN	JM
A:7470A	280-40182-A-1-F MSD		280-167422	280-166451	03/29/2013 20:00	1	TAL DEN	NF
A:300.0	280-40239-C-1 MSD		280-167154		03/28/2013 22:20	5	TAL DEN	EK
A:300.0	280-40343-A-4 MSD		280-167272		03/29/2013 01:30	100	TAL DEN	TLP
A:350.1	280-40096-C-4 MSD		280-167093		03/28/2013 14:21	1	TAL DEN	DE
P:365.2/365.3/365	280-40239-E-1-C MSD		280-167178	280-167025	03/28/2013 10:12	1	TAL DEN	SJS
A:365.1	280-40239-E-1-C MSD		280-167178	280-167025	03/28/2013 15:27	1	TAL DEN	SJS
A:410.4	280-40301-D-1 MSD		280-167122		03/28/2013 19:16	1	TAL DEN	DFB
A:SM 5310B	280-39834-D-1 MSD		280-167194		03/29/2013 01:36	1	TAL DEN	DFB

Client: Waste Management

Job Number: 280-40204-1

Laboratory Chronicle

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	280-40239-C-1 DU		280-167154		03/28/2013 21:19	5	TAL DEN	EK
A:300.0	280-40343-A-4 DU		280-167272		03/29/2013 00:22	100	TAL DEN	TLP
A:SM 2320B	280-40347-A-1 DU		280-167666		04/02/2013 11:33	1	TAL DEN	AK
A:SM 2540C	280-40239-D-1 DU		280-166776		03/27/2013 07:57	1	TAL DEN	SB
A:SM5210B	280-40233-A-2 DU		280-166287		03/22/2013 19:23	5	TAL DEN	DA

Lab References:
TAL DEN = TestAmerica Denver

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	Ammonia/COD	Total Phos/TOC	8260B-VOA	TSS	BOD	Total Number of containers	Special Instructions/Note:
			Preservation Code:		N		N	D	S	S	A	N	N		
TOI	3-21	0920	G	W	N		1	1	2	2	3	1	1		Short Holds: NO3(calc), BOD
TRIP	3-21	—	G	W	N						✓				

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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: 3-21-13 / 1500	Company PRO-TECH	Received by:	Date/Time: 3/22/13 1000	Company TA
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: 2.0° 3/22/13 FP

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
032113	0920	—	—	—	—

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)	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)
0920	NA	1st 7.81	1st 9642	6.3	137	2.1	- 123	
		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 fileds 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 ____
032113	7.81	9642	6.3	137	2.1	- 123	

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: BROWN Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: SE 0.5 Outlook: Clear 36°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
3/21/13	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: 280-40204-1

Login Number: 40204

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	N/A	
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.	True	

ANALYTICAL REPORT

Job Number: 280-40223-1

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
3/30/2013 12:22 PM

Betsy A Sara
Project Manager II
betsy.sara@testamericainc.com
03/30/2013

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: 280-40223-1

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 03/22/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 3.9 C.

Holding Times

The holding times were within established control limits.

Method Blanks

Methylene Chloride Method 8260B was detected in the Method Blank below the project established reporting limit. 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 Method 8260B MS/MSD performed on sample 3406-MW01 (40178-1) exhibited a RPD result outside the RPD limit for 1,1-Dichloroethene. Because the corresponding Matrix Spike and Matrix Spike Duplicate recoveries, Laboratory Control Sample, and Method Blank sample were within control limits, this anomaly is considered to be due to matrix interference and no corrective action was taken.

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

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40223-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40223-1	**3406-S02**					
Field pH		7.58			SU	Field Sampling
Field Conductivity		68			umhos/cm	Field Sampling
Field Temperature		6.8			Degrees C	Field Sampling
Field Turbidity		3.7			NTU	Field Sampling
Field Dissolved Oxygen		6.7			mg/L	Field Sampling
Field EH/ORP		44			millivolts	Field Sampling
Total Recoverable						
Barium		35	J	100	ug/L	6010C
Chromium		0.71	J	10	ug/L	6010C
Vanadium		2.3	J	25	ug/L	6010C
Copper		1.3	J	10	ug/L	6020A
Zinc		2.6	J	10	ug/L	6020A
280-40223-2	**3406-S03**					
Field pH		7.47			SU	Field Sampling
Field Conductivity		44			umhos/cm	Field Sampling
Field Temperature		5.6			Degrees C	Field Sampling
Field Turbidity		13.6			NTU	Field Sampling
Field Dissolved Oxygen		7.2			mg/L	Field Sampling
Field EH/ORP		58			millivolts	Field Sampling
Total Recoverable						
Barium		32	J	100	ug/L	6010C
Chromium		1.2	J	10	ug/L	6010C
Vanadium		3.0	J	25	ug/L	6010C
Copper		1.1	J	10	ug/L	6020A
Zinc		3.2	J	10	ug/L	6020A
280-40223-3	**3406-S04**					
Field pH		7.91			SU	Field Sampling
Field Conductivity		74			umhos/cm	Field Sampling
Field Temperature		6.0			Degrees C	Field Sampling
Field Turbidity		6.7			NTU	Field Sampling
Field Dissolved Oxygen		6.9			mg/L	Field Sampling
Field EH/ORP		53			millivolts	Field Sampling
Total Recoverable						
Barium		33	J	100	ug/L	6010C
Chromium		1.1	J	10	ug/L	6010C
Vanadium		3.2	J	25	ug/L	6010C
Copper		1.2	J	10	ug/L	6020A
Zinc		3.3	J	10	ug/L	6020A

EXECUTIVE SUMMARY - Detections

Client: Waste Management

Job Number: 280-40223-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
280-40223-4	**3406-S05**					
cis-1,2-Dichloroethene		0.18	J	5.0	ug/L	8260B
Field pH		7.61			SU	Field Sampling
Field Conductivity		26			umhos/cm	Field Sampling
Field Temperature		5.6			Degrees C	Field Sampling
Field Turbidity		3.1			NTU	Field Sampling
Field Dissolved Oxygen		5.7			mg/L	Field Sampling
Field EH/ORP		32			millivolts	Field Sampling
Total Recoverable						
Barium		35	J	100	ug/L	6010C
Chromium		1.0	J	10	ug/L	6010C
Vanadium		2.1	J	25	ug/L	6010C
Copper		0.80	J	10	ug/L	6020A
Zinc		2.6	J	10	ug/L	6020A

METHOD SUMMARY

Client: Waste Management

Job Number: 280-40223-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Metals (ICP)	TAL DEN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Metals (ICP/MS)	TAL DEN	SW846 6020A	
Preparation, Total Recoverable or Dissolved Metals	TAL DEN		SW846 3005A
Field Sampling	TAL DEN	EPA Field Sampling	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

EPA = US Environmental Protection Agency

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: 280-40223-1

Method	Analyst	Analyst ID
SW846 8260B	Dobransky, Michael E	MD
SW846 6010C	Bowen, Heidi E	HEB
SW846 6020A	Lill, Thomas E	TEL
EPA Field Sampling	Field, Sampler	FS

SAMPLE SUMMARY

Client: Waste Management

Job Number: 280-40223-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-40223-1	3406-S02	Water	03/21/2013 1050	03/22/2013 1000
280-40223-2	3406-S03	Water	03/21/2013 1011	03/22/2013 1000
280-40223-3	3406-S04	Water	03/21/2013 1030	03/22/2013 1000
280-40223-4	3406-S05	Water	03/21/2013 0950	03/22/2013 1000
280-40223-5TB	TRIP BLANK	Water	03/21/2013 0950	03/22/2013 1000

SAMPLE RESULTS

Client: Waste Management

Job Number: 280-40223-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-40223-1

Client Matrix: Water

Date Sampled: 03/21/2013 1050

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3382.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0952			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0952				

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: 280-40223-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-40223-1

Client Matrix: Water

Date Sampled: 03/21/2013 1050

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3382.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0952			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0952				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 127
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	97		77 - 120
Toluene-d8 (Surr)	96		80 - 125

Client: Waste Management

Job Number: 280-40223-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-40223-2

Client Matrix: Water

Date Sampled: 03/21/2013 1011

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3383.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1012			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1012				

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: 280-40223-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-40223-2

Client Matrix: Water

Date Sampled: 03/21/2013 1011

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3383.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1012			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1012				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		70 - 127
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120
Toluene-d8 (Surr)	96		80 - 125

Client: Waste Management

Job Number: 280-40223-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-40223-3

Client Matrix: Water

Date Sampled: 03/21/2013 1030

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3384.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1033			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1033				

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: 280-40223-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-40223-3

Client Matrix: Water

Date Sampled: 03/21/2013 1030

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3384.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1033			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1033				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	99		77 - 120
Toluene-d8 (Surr)	95		80 - 125

Client: Waste Management

Job Number: 280-40223-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-40223-4

Client Matrix: Water

Date Sampled: 03/21/2013 0950

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3385.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1054			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1054				

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	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: 280-40223-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-40223-4

Client Matrix: Water

Date Sampled: 03/21/2013 0950

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3385.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1054			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1054				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 127
4-Bromofluorobenzene (Surr)	98		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120
Toluene-d8 (Surr)	97		80 - 125

Client: Waste Management

Job Number: 280-40223-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-40223-5TB

Client Matrix: Water

Date Sampled: 03/21/2013 0950

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3386.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1115			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1115				

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: 280-40223-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 280-40223-5TB

Client Matrix: Water

Date Sampled: 03/21/2013 0950

Date Received: 03/22/2013 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	R3386.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 1115			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 1115				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Xylenes, Total	ND		0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120
Toluene-d8 (Surr)	95		80 - 125

Client: Waste Management

Job Number: 280-40223-1

Client Sample ID: **3406-S02**

Lab Sample ID: 280-40223-1

Client Matrix: Water

Date Sampled: 03/21/2013 1050

Date Received: 03/22/2013 1000

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167248	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0949			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	35	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	0.71	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	2.3	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166410	Lab File ID:	164AREF.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0258			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	1.3	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	2.6	J	2.0	10

Client: Waste Management

Job Number: 280-40223-1

Client Sample ID: **3406-S03**

Lab Sample ID: 280-40223-2

Client Matrix: Water

Date Sampled: 03/21/2013 1011

Date Received: 03/22/2013 1000

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167248	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0951			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	32	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.2	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	3.0	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166410	Lab File ID:	172SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0322			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	1.1	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	3.2	J	2.0	10

Client: Waste Management

Job Number: 280-40223-1

Client Sample ID: **3406-S04**

Lab Sample ID: 280-40223-3

Client Matrix: Water

Date Sampled: 03/21/2013 1030

Date Received: 03/22/2013 1000

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167248	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0954			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	33	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.1	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	3.2	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166410	Lab File ID:	173SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0325			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	1.2	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	3.3	J	2.0	10

Client: Waste Management

Job Number: 280-40223-1

Client Sample ID: **3406-S05**

Lab Sample ID: 280-40223-4

Client Matrix: Water

Date Sampled: 03/21/2013 0950

Date Received: 03/22/2013 1000

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	280-167248	Instrument ID:	MT_026
Prep Method:	3005A	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0956			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	35	J	0.58	100
Beryllium	ND		0.47	1.0
Chromium	1.0	J	0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	2.1	J	1.1	25
Silver	ND		0.93	10

6020A Metals (ICP/MS)-Total Recoverable

Analysis Method:	6020A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Prep Method:	3005A	Prep Batch:	280-166410	Lab File ID:	174SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0328			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	0.80	J	0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	2.6	J	2.0	10

Field Service / Mobile Lab

Client Sample ID: **3406-S02**

Lab Sample ID: 280-40223-1

Client Matrix: Water

Date Sampled: 03/21/2013 1050

Date Received: 03/22/2013 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.58		SU	1.0	Field Sampling	280-166263	03/21/2013 1050
Field Conductivity	68		umhos/cm	1.0	Field Sampling	280-166263	03/21/2013 1050
Field Temperature	6.8		Degrees C	1.0	Field Sampling	280-166263	03/21/2013 1050
Field Turbidity	3.7		NTU	1.0	Field Sampling	280-166263	03/21/2013 1050
Field Dissolved Oxygen	6.7		mg/L	1.0	Field Sampling	280-166263	03/21/2013 1050
Field EH/ORP	44		millivolts	1.0	Field Sampling	280-166263	03/21/2013 1050

Field Service / Mobile Lab

Client Sample ID: **3406-S03**

Lab Sample ID: 280-40223-2

Client Matrix: Water

Date Sampled: 03/21/2013 1011

Date Received: 03/22/2013 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.47		SU	1.0	Field Sampling	280-166263	03/21/2013 1011
Field Conductivity	44		umhos/cm	1.0	Field Sampling	280-166263	03/21/2013 1011
Field Temperature	5.6		Degrees C	1.0	Field Sampling	280-166263	03/21/2013 1011
Field Turbidity	13.6		NTU	1.0	Field Sampling	280-166263	03/21/2013 1011
Field Dissolved Oxygen	7.2		mg/L	1.0	Field Sampling	280-166263	03/21/2013 1011
Field EH/ORP	58		millivolts	1.0	Field Sampling	280-166263	03/21/2013 1011

Field Service / Mobile Lab

Client Sample ID: **3406-S04**

Lab Sample ID: 280-40223-3

Client Matrix: Water

Date Sampled: 03/21/2013 1030

Date Received: 03/22/2013 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.91		SU	1.0	Field Sampling	280-166263	03/21/2013 1030
Field Conductivity	74		umhos/cm	1.0	Field Sampling	280-166263	03/21/2013 1030
Field Temperature	6.0		Degrees C	1.0	Field Sampling	280-166263	03/21/2013 1030
Field Turbidity	6.7		NTU	1.0	Field Sampling	280-166263	03/21/2013 1030
Field Dissolved Oxygen	6.9		mg/L	1.0	Field Sampling	280-166263	03/21/2013 1030
Field EH/ORP	53		millivolts	1.0	Field Sampling	280-166263	03/21/2013 1030

Field Service / Mobile Lab

Client Sample ID: **3406-S05**

Lab Sample ID: 280-40223-4

Client Matrix: Water

Date Sampled: 03/21/2013 0950

Date Received: 03/22/2013 1000

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed Date Prepared
Field pH	7.61		SU	1.0	Field Sampling	280-166263	03/21/2013 0950
Field Conductivity	26		umhos/cm	1.0	Field Sampling	280-166263	03/21/2013 0950
Field Temperature	5.6		Degrees C	1.0	Field Sampling	280-166263	03/21/2013 0950
Field Turbidity	3.1		NTU	1.0	Field Sampling	280-166263	03/21/2013 0950
Field Dissolved Oxygen	5.7		mg/L	1.0	Field Sampling	280-166263	03/21/2013 0950
Field EH/ORP	32		millivolts	1.0	Field Sampling	280-166263	03/21/2013 0950

DATA REPORTING QUALIFIERS

Client: Waste Management

Job Number: 280-40223-1

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.
	F	RPD of the MS and MSD exceeds the 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: 280-40223-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-1669Tv					
LCS 280-166759/4	Lab Control Sample	T	Water	8260B	
MB 280-166759/5	Method Blank	T	Water	8260B	
280-40178-C-1 MS	Matrix Spike	T	Water	8260B	
280-40178-C-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-40223-1	3406-S02	T	Water	8260B	
280-40223-2	3406-S03	T	Water	8260B	
280-40223-3	3406-S04	T	Water	8260B	
280-40223-4	3406-S05	T	Water	8260B	
280-40223-5TB	TRIP BLANK	T	Water	8260B	

Report Basis

T = Total

Client: Waste Management

Job Number: 280-40223-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-166710					
LCS 280-166410/2-A	Lab Control Sample	R	Water	3005A	
MB 280-166410/1-A	Method Blank	R	Water	3005A	
280-40223-1	3406-S02	R	Water	3005A	
280-40223-1MS	Matrix Spike	R	Water	3005A	
280-40223-1MSD	Matrix Spike Duplicate	R	Water	3005A	
280-40223-2	3406-S03	R	Water	3005A	
280-40223-3	3406-S04	R	Water	3005A	
280-40223-4	3406-S05	R	Water	3005A	
Prep Batch: 280-166713					
LCS 280-166413/2-A	Lab Control Sample	R	Water	3005A	
MB 280-166413/1-A	Method Blank	R	Water	3005A	
280-40223-1	3406-S02	R	Water	3005A	
280-40223-2	3406-S03	R	Water	3005A	
280-40223-3	3406-S04	R	Water	3005A	
280-40223-4	3406-S05	R	Water	3005A	
280-40225-A-3-C MS	Matrix Spike	R	Water	3005A	
280-40225-A-3-D MSD	Matrix Spike Duplicate	R	Water	3005A	
Analysis Batch:280-166807					
LCS 280-166410/2-A	Lab Control Sample	R	Water	6020A	280-166410
MB 280-166410/1-A	Method Blank	R	Water	6020A	280-166410
280-40223-1	3406-S02	R	Water	6020A	280-166410
280-40223-1MS	Matrix Spike	R	Water	6020A	280-166410
280-40223-1MSD	Matrix Spike Duplicate	R	Water	6020A	280-166410
280-40223-2	3406-S03	R	Water	6020A	280-166410
280-40223-3	3406-S04	R	Water	6020A	280-166410
280-40223-4	3406-S05	R	Water	6020A	280-166410
Analysis Batch:280-169278					
LCS 280-166413/2-A	Lab Control Sample	R	Water	6010C	280-166413
MB 280-166413/1-A	Method Blank	R	Water	6010C	280-166413
280-40223-1	3406-S02	R	Water	6010C	280-166413
280-40223-2	3406-S03	R	Water	6010C	280-166413
280-40223-3	3406-S04	R	Water	6010C	280-166413
280-40223-4	3406-S05	R	Water	6010C	280-166413
280-40225-A-3-C MS	Matrix Spike	R	Water	6010C	280-166413
280-40225-A-3-D MSD	Matrix Spike Duplicate	R	Water	6010C	280-166413

Report Basis

R = Total Recoverable

Client: Waste Management

Job Number: 280-40223-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Field Ser5ice / Mobile Lab					
Analysis Batch:280-166263					
280-40223-1	3406-S02	T	Water	Field Sampling	
280-40223-2	3406-S03	T	Water	Field Sampling	
280-40223-3	3406-S04	T	Water	Field Sampling	
280-40223-4	3406-S05	T	Water	Field Sampling	

Report Basis

T = Total

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Ssb psml ie DA	I inet Wpsml ie DA	AI B Rce3	FTF Rce3	AFTg Rce3	C%S Rce3
280-40221-C	1406-p02	99	9P	9K	96
280-40221-2	1406-p01	C0C	98	98	96
280-40221-1	1406-p04	C04	98	99	9P
280-40221-4	1406-p0P	C0K	98	C02	9K
280-40221-P	Oc D7 FSBN/	C04	9K	C00	9P
g F 280-C66KP95P		98	C0C	C00	96
SI p 280-C66KP954		99	96	C0C	98
280-40CK8-I -Cg p		9K	89	9K	91
280-40CK8-I -Cg pA		C0C	91	C0C	96

purroLs\W	B33el W/t 3e SmnWl
AI B = C,2-Ar3hioroeWst e-d4 (purr)	K0-C2K
FTF = 4-Fromofiuorobet zet e (purr)	K8-C20
AFTg = Arbromofiuorome\Wst e (purr)	KK-C20
C%S = Cobiuet e-d8 (purr)	80-C2P

Client: Waste Management

Job Number: 280-40223-1

Method Blank - Batch: 280-166759

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-166759/5	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3377.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0808	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0808				
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	0.635	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: 280-40223-1

Method Blank - Batch: 280-166759

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 280-166759/5	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3377.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0808	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0808				
Leach Date:	N/A				

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

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	70 - 127
4-Bromofluorobenzene (Surr)	101	78 - 120
Dibromofluoromethane (Surr)	100	77 - 120
Toluene-d8 (Surr)	96	80 - 125

Lab Control Sample - Batch: 280-166759

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 280-166759/4	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3376.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0736	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0736				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1-Trichloroethane	5.00	4.95	99	70 - 135	
1,1-Dichloroethane	5.00	4.79	96	75 - 135	J
1,1-Dichloroethene	5.00	5.31	106	71 - 136	
1,2-Dichloropropane	5.00	4.76	95	71 - 120	
1,3-Dichlorobenzene	5.00	4.70	94	74 - 135	
Benzene	5.00	4.77	95	74 - 135	
Bromodichloromethane	5.00	5.01	100	73 - 135	
Carbon tetrachloride	5.00	5.04	101	67 - 135	
Chlorobenzene	5.00	4.66	93	76 - 135	
Chloroform	5.00	4.82	96	76 - 120	J
Ethylbenzene	5.00	4.66	93	72 - 120	
Methylene Chloride	5.00	5.67	113	54 - 141	
Tetrachloroethene	5.00	4.81	96	70 - 135	
Toluene	5.00	4.72	94	73 - 120	
trans-1,2-Dichloroethene	5.00	5.01	100	75 - 135	
Trichloroethene	5.00	4.74	95	73 - 135	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	70 - 127
4-Bromofluorobenzene (Surr)	96	78 - 120
Dibromofluoromethane (Surr)	101	77 - 120
Toluene-d8 (Surr)	98	80 - 125

Client: Waste Management

Job Number: 280-40223-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166759

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-40178-C-1 MS	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3380.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0910			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0910				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40178-C-1 MSD	Analysis Batch:	280-166759	Instrument ID:	VMS_R1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	R3381.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	03/27/2013 0931			Final Weight/Volume:	20 mL
Prep Date:	03/27/2013 0931				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1-Trichloroethane	94	93	70 - 135	1	20		
1,1-Dichloroethane	90	90	75 - 135	0	21	J	J
1,1-Dichloroethene	118	95	71 - 136	21	20		J F
1,2-Dichloropropane	88	91	71 - 120	3	20		
1,3-Dichlorobenzene	87	88	74 - 135	2	20		
Benzene	89	90	74 - 135	1	20		
Bromodichloromethane	92	94	73 - 135	2	20		
Carbon tetrachloride	98	96	67 - 135	2	21		
Chlorobenzene	86	89	76 - 135	4	20		
Chloroform	91	92	76 - 120	1	20	J	J
Ethylbenzene	87	88	72 - 120	1	26		
Methylene Chloride	86	86	54 - 141	0	20		
Tetrachloroethene	87	88	70 - 135	2	20		
Toluene	89	91	73 - 120	2	20		
trans-1,2-Dichloroethene	92	91	75 - 135	1	24	J	J
Trichloroethene	88	89	73 - 135	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	101	70 - 127
4-Bromofluorobenzene (Surr)	89	93	78 - 120
Dibromofluoromethane (Surr)	97	101	77 - 120
Toluene-d8 (Surr)	93	96	80 - 125

Client: Waste Management

Job Number: 280-40223-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166759

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-40178-C-1 MS	Units: ug/L	
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/27/2013 0910		
Prep Date:	03/27/2013 0910		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40178-C-1 MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/27/2013 0931
Prep Date:	03/27/2013 0931
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	4.71		4.66	
1,1-Dichloroethane	ND	5.00	5.00	4.51	J	4.50	J
1,1-Dichloroethene	ND	5.00	5.00	5.90		4.77	J F
1,2-Dichloropropane	ND	5.00	5.00	4.41		4.54	
1,3-Dichlorobenzene	ND	5.00	5.00	4.34		4.42	
Benzene	ND	5.00	5.00	4.44		4.49	
Bromodichloromethane	ND	5.00	5.00	4.62		4.72	
Carbon tetrachloride	ND	5.00	5.00	4.88		4.78	
Chlorobenzene	ND	5.00	5.00	4.30		4.46	
Chloroform	ND	5.00	5.00	4.55	J	4.61	J
Ethylbenzene	ND	5.00	5.00	4.35		4.38	
Methylene Chloride	ND	5.00	5.00	4.29		4.28	
Tetrachloroethene	ND	5.00	5.00	4.34		4.41	
Toluene	ND	5.00	5.00	4.43		4.53	
trans-1,2-Dichloroethene	ND	5.00	5.00	4.61	J	4.57	J
Trichloroethene	ND	5.00	5.00	4.38		4.46	

Client: Waste Management

Job Number: 280-40223-1

Method Blank - Batch: 280-166413

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-166413/1-A	Analysis Batch:	280-167248	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0944	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	ND		0.58	100
Beryllium	ND		0.47	1.0
Chromium	ND		0.66	10
Cobalt	ND		1.2	10
Lead	ND		2.6	10
Nickel	ND		1.3	50
Vanadium	ND		1.1	25
Silver	ND		0.93	10

Lab Control Sample - Batch: 280-166413

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-166413/2-A	Analysis Batch:	280-167248	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 0946	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2140	107	90 - 112	
Beryllium	50.0	50.1	100	89 - 113	
Chromium	200	202	101	90 - 113	
Cobalt	500	504	101	89 - 111	
Lead	500	515	103	89 - 110	
Nickel	500	492	98	89 - 111	
Vanadium	500	511	102	90 - 111	
Silver	50.0	52.8	106	86 - 115	

Client: Waste Management

Job Number: 280-40223-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166413

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40225-A-3-C MS	Analysis Batch:	280-167248	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 1018			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40225-A-3-D MSD	Analysis Batch:	280-167248	Instrument ID:	MT_026
Client Matrix:	Water	Prep Batch:	280-166413	Lab File ID:	26e032813.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/29/2013 1020			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	103	107	85 - 120	4	20		
Beryllium	96	100	79 - 121	3	20		
Chromium	98	101	73 - 135	3	20		
Cobalt	98	101	82 - 119	3	20		
Lead	100	104	89 - 121	3	20		
Nickel	96	99	84 - 120	3	20		
Vanadium	100	102	85 - 120	2	20		
Silver	102	105	75 - 141	3	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166413

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40225-A-3-C MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/29/2013 1018		
Prep Date:	03/26/2013 1330		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40225-A-3-D MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/29/2013 1020
Prep Date:	03/26/2013 1330
Leach Date:	N/A

	Sample		MS Spike	MSD Spike	MS	MSD
Analyte	Result/Qual		Amount	Amount	Result/Qual	Result/Qual
Barium	85	J	2000	2000	2150	2230
Beryllium	ND		50.0	50.0	48.2	49.8
Chromium	1.9	J	200	200	197	204
Cobalt	ND		500	500	490	506
Lead	ND		500	500	501	518
Nickel	ND		500	500	478	494
Vanadium	1.1	J	500	500	499	509
Silver	ND		50.0	50.0	51.2	52.7

Client: Waste Management

Job Number: 280-40223-1

Method Blank - Batch: 280-166410

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 280-166410/1-A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166410	Lab File ID:	162_BLK.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0252	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.40	6.0
Arsenic	ND		0.33	10
Cadmium	ND		0.10	1.0
Copper	ND		0.56	10
Selenium	ND		0.70	10
Thallium	ND		0.050	5.5
Zinc	ND		2.0	10

Lab Control Sample - Batch: 280-166410

Method: 6020A
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 280-166410/2-A	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166410	Lab File ID:	163_LCS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0255	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	40.0	38.2	95	85 - 115	
Arsenic	40.0	40.9	102	85 - 117	
Cadmium	40.0	40.8	102	85 - 115	
Copper	40.0	42.0	105	85 - 119	
Selenium	40.0	40.8	102	77 - 122	
Thallium	40.0	42.2	106	85 - 118	
Zinc	40.0	43.3	108	83 - 122	

Client: Waste Management

Job Number: 280-40223-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166410

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40223-1	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166410	Lab File ID:	167_MS.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0307			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

MSD Lab Sample ID:	280-40223-1	Analysis Batch:	280-166804	Instrument ID:	MT_024
Client Matrix:	Water	Prep Batch:	280-166410	Lab File ID:	168_MSD.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	03/27/2013 0310			Final Weight/Volume:	50 mL
Prep Date:	03/26/2013 1330				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	99	100	85 - 115	1	20		
Arsenic	105	105	85 - 115	0	20		
Cadmium	105	106	85 - 115	1	20		
Copper	104	105	85 - 119	1	20		
Selenium	107	108	77 - 122	1	20		
Thallium	106	107	85 - 118	1	20		
Zinc	105	105	83 - 122	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-166410

Method: 6020A
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	280-40223-1	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	03/27/2013 0307		
Prep Date:	03/26/2013 1330		
Leach Date:	N/A		

MSD Lab Sample ID:	280-40223-1
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	03/27/2013 0310
Prep Date:	03/26/2013 1330
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Antimony	ND		40.0	40.0	39.8	40.2
Arsenic	ND		40.0	40.0	42.1	42.1
Cadmium	ND		40.0	40.0	42.2	42.5
Copper	1.3	J	40.0	40.0	42.8	43.3
Selenium	ND		40.0	40.0	42.7	43.1
Thallium	ND		40.0	40.0	42.4	42.9
Zinc	2.6	J	40.0	40.0	44.5	44.6

Client: Waste Management

Job Number: 280-40223-1

Laboratory Chronicle

Lab ID: **280-40223-1** **Client ID:** **3406-S02**

Sample Date/Time: 03/21/2013 10:50 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40223-B-1		280-166759		03/27/2013 09:52	1	TAL DEN	MD
A:8260B	280-40223-B-1		280-166759		03/27/2013 09:52	1	TAL DEN	MD
P:3005A	280-40223-A-1-B		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40223-A-1-B		280-167248	280-166413	03/29/2013 09:49	1	TAL DEN	HEB
P:3005A	280-40223-A-1-C		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40223-A-1-C		280-166804	280-166410	03/27/2013 02:58	1	TAL DEN	TEL
A:Field Sampling	280-40223-A-1		280-166263		03/21/2013 10:50	1	TAL DEN	FS

Lab ID: **280-40223-1 MS** **Client ID:** **3406-S02**

Sample Date/Time: 03/21/2013 10:50 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40223-A-1-D MS		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40223-A-1-D MS		280-166804	280-166410	03/27/2013 03:07	1	TAL DEN	TEL

Lab ID: **280-40223-1 MSD** **Client ID:** **3406-S02**

Sample Date/Time: 03/21/2013 10:50 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	280-40223-A-1-E MSD		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40223-A-1-E MSD		280-166804	280-166410	03/27/2013 03:10	1	TAL DEN	TEL

Lab ID: **280-40223-2** **Client ID:** **3406-S03**

Sample Date/Time: 03/21/2013 10:11 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40223-B-2		280-166759		03/27/2013 10:12	1	TAL DEN	MD
A:8260B	280-40223-B-2		280-166759		03/27/2013 10:12	1	TAL DEN	MD
P:3005A	280-40223-A-2-B		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40223-A-2-B		280-167248	280-166413	03/29/2013 09:51	1	TAL DEN	HEB
P:3005A	280-40223-A-2-A		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40223-A-2-A		280-166804	280-166410	03/27/2013 03:22	1	TAL DEN	TEL
A:Field Sampling	280-40223-A-2		280-166263		03/21/2013 10:11	1	TAL DEN	FS

Client: Waste Management

Job Number: 280-40223-1

Laboratory Chronicle

Lab ID: 280-40223-3 **Client ID:** 3406-S04

Sample Date/Time: 03/21/2013 10:30 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40223-B-3		280-166759		03/27/2013 10:33	1	TAL DEN	MD
A:8260B	280-40223-B-3		280-166759		03/27/2013 10:33	1	TAL DEN	MD
P:3005A	280-40223-A-3-B		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40223-A-3-B		280-167248	280-166413	03/29/2013 09:54	1	TAL DEN	HEB
P:3005A	280-40223-A-3-A		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40223-A-3-A		280-166804	280-166410	03/27/2013 03:25	1	TAL DEN	TEL
A:Field Sampling	280-40223-A-3		280-166263		03/21/2013 10:30	1	TAL DEN	FS

Lab ID: 280-40223-4 **Client ID:** 3406-S05

Sample Date/Time: 03/21/2013 09:50 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40223-B-4		280-166759		03/27/2013 10:54	1	TAL DEN	MD
A:8260B	280-40223-B-4		280-166759		03/27/2013 10:54	1	TAL DEN	MD
P:3005A	280-40223-A-4-B		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40223-A-4-B		280-167248	280-166413	03/29/2013 09:56	1	TAL DEN	HEB
P:3005A	280-40223-A-4-A		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	280-40223-A-4-A		280-166804	280-166410	03/27/2013 03:28	1	TAL DEN	TEL
A:Field Sampling	280-40223-A-4		280-166263		03/21/2013 09:50	1	TAL DEN	FS

Lab ID: 280-40223-5 **Client ID:** TRIP BLANK

Sample Date/Time: 03/21/2013 09:50 Received Date/Time: 03/22/2013 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-40223-A-5		280-166759		03/27/2013 11:15	1	TAL DEN	MD
A:8260B	280-40223-A-5		280-166759		03/27/2013 11:15	1	TAL DEN	MD

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 280-166759/5		280-166759		03/27/2013 08:08	1	TAL DEN	MD
A:8260B	MB 280-166759/5		280-166759		03/27/2013 08:08	1	TAL DEN	MD
P:3005A	MB 280-166413/1-A		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	MB 280-166413/1-A		280-167248	280-166413	03/29/2013 09:44	1	TAL DEN	HEB
P:3005A	MB 280-166410/1-A		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	MB 280-166410/1-A		280-166804	280-166410	03/27/2013 02:52	1	TAL DEN	TEL

Client: Waste Management

Job Number: 280-40223-1

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 280-166759/4		280-166759		03/27/2013 07:36	1	TAL DEN	MD
A:8260B	LCS 280-166759/4		280-166759		03/27/2013 07:36	1	TAL DEN	MD
P:3005A	LCS 280-166413/2-A		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	LCS 280-166413/2-A		280-167248	280-166413	03/29/2013 09:46	1	TAL DEN	HEB
P:3005A	LCS 280-166410/2-A		280-166804	280-166410	03/26/2013 13:30	1	TAL DEN	RC
A:6020A	LCS 280-166410/2-A		280-166804	280-166410	03/27/2013 02:55	1	TAL DEN	TEL

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	280-40178-C-1 MS		280-166759		03/27/2013 09:10	1	TAL DEN	MD
A:8260B	280-40178-C-1 MS		280-166759		03/27/2013 09:10	1	TAL DEN	MD
P:3005A	280-40225-A-3-C MS		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40225-A-3-C MS		280-167248	280-166413	03/29/2013 10:18	1	TAL DEN	HEB

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	280-40178-C-1 MSD		280-166759		03/27/2013 09:31	1	TAL DEN	MD
A:8260B	280-40178-C-1 MSD		280-166759		03/27/2013 09:31	1	TAL DEN	MD
P:3005A	280-40225-A-3-D MSD		280-167248	280-166413	03/26/2013 13:30	1	TAL DEN	RC
A:6010C	280-40225-A-3-D MSD		280-167248	280-166413	03/29/2013 10:20	1	TAL DEN	HEB

Lab References:

TAL DEN = TestAmerica Denver

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: 225.907.4060	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 Surface Water 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)	Total Metals	8260B - VOA	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A		
S02	3-21	1050	G	W	N		1	3		
S03	3-21	1011	G	W	N		1	3		
S04	3-21	1030	G	W	N		1	3		
S05	3-21	0950	G	W	N		1	3		
TRIP	3-21	—	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: 3-21-13 / 1500	Company: PRO-TECH	Received by:	Date/Time: 3/22/13 1000	Company: TA
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: 3.9 3/22/13 PP

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
032113	1050	—	—	—	—

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)
1050	NA	1st 7.58	1st 68	6.8	37	6.7	44	
		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 fileds 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 ____
032113	7.58	68	6.8	37	6.7	44	

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: SE 0-5 Outlook: Clear 35°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
3/21/13	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
032113	1011	—	—	—	—

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)
1011	NA 1st	7.47 1st	44 1st	5.6	136	7.2	58	
	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 fileds 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
032113	7.47	44	5.6	136	7.2	58	

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: SE 0-5 Outlook: clear 35°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
3/21/13	DAN ARMOJA	[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: 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
032113	1030	—	—	—	—

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)
1030	NA 1st	7.91 1st	74 1st	60	67	69	53	
	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 fileds 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 ____
032113	7.91	74	60	67	69	53	

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: SE 0-5 Outlook: Clear 35°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
3/21/13	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: S05 (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
032113	0950	—	—	—	—

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: E

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)
0950	NA 1st	7.61 1st	26 1st	5.6	3.1	5.7	32	
	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 fileds 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
032113	7.61	26	5.6	3.1	5.7	32	

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: SE 0-5 Outlook: Clear 35°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
3/21/13	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: 280-40223-1

Login Number: 40223

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	N/A	
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	

Appendix B: Groundwater Statistical Analyses Report

Results of the Ground Water Statistics for

Piedmont Landfill

First Semi-Annual Monitoring Event in 2013

Prepared for:
Piedmont Landfill and Recycling Center
Kernersville, North Carolina

Prepared by:
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April 2013

Introduction

This report contains the results of the statistical analysis used to evaluate the ground water data obtained during the first semi-annual monitoring event in 2013 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 March 20-21, 2013 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 first semi-annual monitoring event in 2013 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 2008. Since there were no exceedances attributed to the landfill, the background was updated to include data obtained through 2012 for all wells. The background range was tested for increasing trends using Sen's Test. There were increasing trends detected for barium at upgradient well MW01, barium at MW02, and chromium at MW03.

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. The site-wide false positive rate is 1% 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 first semi-annual monitoring event in 2013. Historical VOC detections are summarized in Attachment C.

Attachment A

Summary of the Ground Water Data obtained during the First Semi-Annual Monitoring Event in 2013

Table 1

Analytical Data Summary for 3/20/2013 to 3/21/2013

Constituents	Units	3406-MW01	3406-MW02	3406-MW03	3406-MW04	3406-MW04D	3406-MW05
1,1,1,2-tetrachloroethane	UG/L	<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
1,1,2,2-tetrachloroethane	UG/L	<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
1,1-dichloroethane	UG/L	<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
1,2,3-trichloropropane	UG/L	<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
1,2-dibromoethane (edb)	UG/L	<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
1,2-dichloroethane	UG/L	<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
1,4-dichlorobenzene	UG/L	<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
Acetone	UG/L	<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
Antimony, total	UG/L	<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
Barium, total	UG/L	<100.0000	140.0000	<100.0000	<100.0000	<100.0000	<100.0000
Benzene	UG/L	<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
Bromochloromethane	UG/L	<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
Bromomethane	UG/L	<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
Carbon disulfide	UG/L	<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
Chlorobenzene	UG/L	<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
Chloroform	UG/L	<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
Chromium, total	UG/L	<10.0000	<10.0000	13.0000	<10.0000	<10.0000	<10.0000
Cis-1,2-dichloroethene	UG/L	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Cis-1,3-dichloropropene	UG/L	<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
Copper, total	UG/L	<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
Dibromomethane	UG/L	<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
Do (field)	MG/L	3.6000	1.1000	4.3000	.5000	4.6000	.1000
Eh/orp (field)	mV	146.0000	172.0000	47.0000	117.0000	53.0000	39.0000
Ethylbenzene	UG/L	<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
Lead, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Methyl ethyl ketone	UG/L	<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
Methylene chloride	UG/L	<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
pH FIELD	PH UNITS	5.8100	5.0600	5.8700	5.0800	5.8000	6.6200
Selenium, total	UG/L	<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
Specific conductance field	UMHOS/CM	53.0000	120.0000	123.0000	68.0000	78.0000	198.0000
Styrene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Tetrachloroethene	UG/L	<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
Toluene	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Total xylenes	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trans-1,2-dichloroethene	UG/L	<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
Trans-1,4-dichloro-2-butene	UG/L	<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
Trichlorofluoromethane	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Turbidity	NTU	1.3000	.8000	2.4000	3.1000	18.7000	.9000
Vanadium, total	UG/L	<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
Vinyl chloride	UG/L	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Zinc, total	UG/L	<10.0000	<10.0000	<10.0000	<10.0000	19.0000	<10.0000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 3/20/2013 to 3/21/2013

Constituents	3406-MW06	3406-MW07	3406-MW08	3406-MW09R	3406-MW10	3406-MW11	3406-MW11D
1,1,1,2-tetrachloroethane	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1,1-trichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,1,2,2-tetrachloroethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
1,1,2-trichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,1-dichloroethane	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,2,3-trichloropropane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dibromo-3-chloropropane (dbcp)	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000
1,2-dibromoethane (edb)	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dichlorobenzene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,2-dichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dichloropropane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,4-dichlorobenzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
2-hexanone	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
Acetone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Acrylonitrile	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000
Antimony, total	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000
Arsenic, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Barium, total	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Benzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Beryllium, total	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Bromochloromethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Bromoform	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Bromomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Cadmium, total	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Carbon disulfide	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Carbon tetrachloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Chlorobenzene	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Chloroethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Chloroform	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Chloromethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Chromium, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Cis-1,2-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Cis-1,3-dichloropropene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Cobalt, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Copper, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	10.0000
Dibromochloromethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Dibromomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Dichlorobromomethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Do (field)	1.2000	5.9000	.5000	.0000	3.2000	1.0000	3.3000
Eh/orp (field)	146.0000	83.0000	70.0000	22.0000	165.0000	140.0000	94.0000
Ethylbenzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Iodomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Lead, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Methyl ethyl ketone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Methyl isobutyl ketone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Methylene chloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Nickel, total	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
pH FIELD	5.2800	5.8400	5.3800	5.9300	5.8300	5.4800	6.3300
Selenium, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Silver, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Specific conductance field	28.0000	93.0000	62.0000	250.0000	100.0000	127.0000	40.0000
Styrene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Tetrachloroethene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Thallium, total	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000
Toluene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Total xylenes	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trans-1,2-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Trans-1,3-dichloropropene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trans-1,4-dichloro-2-butene	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Trichloroethene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trichlorofluoromethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Turbidity	2.3000	8.1000	6.4000	.8000	5.7000	3.7000	6.0000
Vanadium, total	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000
Vinyl acetate	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
Vinyl chloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Zinc, total	<10.0000	16.0000	<10.0000	<10.0000	<10.0000	12.0000	<10.0000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 3/20/2013 to 3/21/2013

Constituents	3406-MW12	3406-MW12D	3406-S02	3406-S03	3406-S04	3406-S05
1,1,1,2-tetrachloroethane	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1,1-trichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,1,2,2-tetrachloroethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
1,1,2-trichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,1-dichloroethane	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,1-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,2,3-trichloropropane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dibromo-3-chloropropane (dbcp)	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000	<13.0000
1,2-dibromoethane (edb)	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dichlorobenzene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
1,2-dichloroethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,2-dichloropropane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
1,4-dichlorobenzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
2-hexanone	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
Acetone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Acrylonitrile	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000	<200.0000
Antimony, total	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000	<6.0000
Arsenic, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Barium, total	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Benzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Beryllium, total	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Bromochloromethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Bromoform	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Bromomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Cadmium, total	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Carbon disulfide	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Carbon tetrachloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Chlorobenzene	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Chloroethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Chloroform	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Chloromethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Chromium, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Cis-1,2-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Cis-1,3-dichloropropene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Cobalt, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Copper, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Dibromochloromethane	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000	<3.0000
Dibromomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Dichlorobromomethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Do (field)	.7000	.6000	6.7000	7.2000	6.9000	5.7000
Eh/orp (field)	59.0000	50.0000	44.0000	58.0000	53.0000	32.0000
Ethylbenzene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Iodomethane	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Lead, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Methyl ethyl ketone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Methyl isobutyl ketone	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Methylene chloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Nickel, total	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
pH FIELD	5.7900	6.6700	7.5800	7.4700	7.9100	7.6100
Selenium, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Silver, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000
Specific conductance field	141.0000	228.0000	68.0000	44.0000	74.0000	26.0000
Styrene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Tetrachloroethene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Thallium, total	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000	<5.5000
Toluene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Total xylenes	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trans-1,2-dichloroethene	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000	<5.0000
Trans-1,3-dichloropropene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trans-1,4-dichloro-2-butene	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000	<100.0000
Trichloroethene	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Trichlorofluoromethane	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Turbidity	4.6000	5.8000	3.7000	13.6000	6.7000	3.1000
Vanadium, total	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000	<25.0000
Vinyl acetate	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000	<50.0000
Vinyl chloride	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000	<1.0000
Zinc, total	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000	<10.0000

* - 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	43					30.0000**
Arsenic, total	UG/L	3406-MW01	49					10.0000**
Barium, total	UG/L	3406-MW01	49	320.0429	219.2848	0.0000	320.0429	1197.1819
Beryllium, total	UG/L	3406-MW01	41					2.0000**
Cadmium, total	UG/L	3406-MW01	52					2.0000**
Chromium, total	UG/L	3406-MW01	49					10.0000**
Cobalt, total	UG/L	3406-MW01	41					10.0000**
Copper, total	UG/L	3406-MW01	49					25.0000**
Lead, total	UG/L	3406-MW01	49					10.0000**
Nickel, total	UG/L	3406-MW01	41					50.0000**
Selenium, total	UG/L	3406-MW01	49					10.8000**
Silver, total	UG/L	3406-MW01	49					10.0000**
Thallium, total	UG/L	3406-MW01	41					10.0000**
Vanadium, total	UG/L	3406-MW01	41					40.0000**
Zinc, total	UG/L	3406-MW01	49					65.4000**
Antimony, total	UG/L	3406-MW02	42					30.0000**
Arsenic, total	UG/L	3406-MW02	48					10.1000**
Barium, total	UG/L	3406-MW02	48	209.0313	212.1981	0.0000	209.0313	1057.8236
Beryllium, total	UG/L	3406-MW02	40					2.0000**
Cadmium, total	UG/L	3406-MW02	51					2.1000**
Chromium, total	UG/L	3406-MW02	48					10.0000**
Cobalt, total	UG/L	3406-MW02	40					10.0000**
Copper, total	UG/L	3406-MW02	48					25.0000**
Lead, total	UG/L	3406-MW02	48					10.0000**
Nickel, total	UG/L	3406-MW02	40					50.0000**
Selenium, total	UG/L	3406-MW02	48					10.0000**
Silver, total	UG/L	3406-MW02	48					10.0000**
Thallium, total	UG/L	3406-MW02	40					10.0000**
Vanadium, total	UG/L	3406-MW02	40					40.0000**
Zinc, total	UG/L	3406-MW02	48					50.0000**
Antimony, total	UG/L	3406-MW03	43					30.0000**
Arsenic, total	UG/L	3406-MW03	48					10.0000**
Barium, total	UG/L	3406-MW03	48	296.7354	243.0618	0.0000	296.7354	1268.9827
Beryllium, total	UG/L	3406-MW03	40					2.0000**
Cadmium, total	UG/L	3406-MW03	51					2.3000**
Chromium, total	UG/L	3406-MW03	49	9.6592	2.4715	0.0000	11.1464	19.5452
Cobalt, total	UG/L	3406-MW03	41					10.0000**
Copper, total	UG/L	3406-MW03	49					31.6000**
Lead, total	UG/L	3406-MW03	48					10.0000**
Nickel, total	UG/L	3406-MW03	40					50.0000**
Selenium, total	UG/L	3406-MW03	48					10.0000**
Silver, total	UG/L	3406-MW03	48					10.0000**
Thallium, total	UG/L	3406-MW03	40					10.0000**
Vanadium, total	UG/L	3406-MW03	41					40.0000**
Zinc, total	UG/L	3406-MW03	48					50.0000**
Antimony, total	UG/L	3406-MW04	42					30.0000**
Arsenic, total	UG/L	3406-MW04	48					10.0000**
Barium, total	UG/L	3406-MW04	48	304.2146	234.1135	0.0000	304.2146	1240.6686
Beryllium, total	UG/L	3406-MW04	40					2.0000**
Cadmium, total	UG/L	3406-MW04	51					1.8000**
Chromium, total	UG/L	3406-MW04	48					10.0000**
Cobalt, total	UG/L	3406-MW04	40					10.0000**
Copper, total	UG/L	3406-MW04	48					25.0000**
Lead, total	UG/L	3406-MW04	48					10.0000**
Nickel, total	UG/L	3406-MW04	40					50.0000**
Selenium, total	UG/L	3406-MW04	48					14.7000**
Silver, total	UG/L	3406-MW04	48					10.0000**
Thallium, total	UG/L	3406-MW04	40					10.0000**
Vanadium, total	UG/L	3406-MW04	40					40.0000**
Zinc, total	UG/L	3406-MW04	48					50.0000**
Antimony, total	UG/L	3406-MW04D	38					30.0000**
Arsenic, total	UG/L	3406-MW04D	38					10.0000**
Barium, total	UG/L	3406-MW04D	38	392.7895	187.0881	0.0000	392.7895	1141.1419
Beryllium, total	UG/L	3406-MW04D	38					8.0000**
Cadmium, total	UG/L	3406-MW04D	38					2.1000**
Chromium, total	UG/L	3406-MW04D	38	9.7868	2.9570	0.0000	9.7868	21.6149
Cobalt, total	UG/L	3406-MW04D	38					26.0000**
Copper, total	UG/L	3406-MW04D	38					200.0000**
Lead, total	UG/L	3406-MW04D	40	10.9750	11.9052	0.0000	10.9750	58.5958
Nickel, total	UG/L	3406-MW04D	38					50.0000**
Selenium, total	UG/L	3406-MW04D	38					20.0000**
Silver, total	UG/L	3406-MW04D	38					10.0000**
Thallium, total	UG/L	3406-MW04D	38					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	38					120.0000**
Zinc, total	UG/L	3406-MW04D	40	57.7000	38.2892	0.0000	57.7000	210.8569
Antimony, total	UG/L	3406-MW05	42					30.0000**
Arsenic, total	UG/L	3406-MW05	48					11.9000**
Barium, total	UG/L	3406-MW05	48	298.6438	240.7731	0.0000	298.6438	1261.7360
Beryllium, total	UG/L	3406-MW05	40					2.0000**
Cadmium, total	UG/L	3406-MW05	51					1.0000**
Chromium, total	UG/L	3406-MW05	48					10.0000**
Cobalt, total	UG/L	3406-MW05	40					10.0000**
Copper, total	UG/L	3406-MW05	48					25.0000**
Lead, total	UG/L	3406-MW05	48					10.0000**
Nickel, total	UG/L	3406-MW05	40					50.0000**
Selenium, total	UG/L	3406-MW05	48					10.0000**
Silver, total	UG/L	3406-MW05	48					10.0000**
Thallium, total	UG/L	3406-MW05	40					10.0000**
Vanadium, total	UG/L	3406-MW05	40					40.0000**
Zinc, total	UG/L	3406-MW05	48					110.0000**
Antimony, total	UG/L	3406-MW06	42					30.0000**
Arsenic, total	UG/L	3406-MW06	40					10.0000**
Barium, total	UG/L	3406-MW06	40	361.4300	214.4190	0.0000	361.4300	1219.1059
Beryllium, total	UG/L	3406-MW06	40					2.6000**
Cadmium, total	UG/L	3406-MW06	43					1.0000**
Chromium, total	UG/L	3406-MW06	40					10.0000**
Cobalt, total	UG/L	3406-MW06	40					10.0000**
Copper, total	UG/L	3406-MW06	40					200.0000**
Lead, total	UG/L	3406-MW06	40					10.0000**
Nickel, total	UG/L	3406-MW06	40					50.0000**
Selenium, total	UG/L	3406-MW06	40					20.0000**
Silver, total	UG/L	3406-MW06	40					10.0000**
Thallium, total	UG/L	3406-MW06	40					10.0000**
Vanadium, total	UG/L	3406-MW06	40					45.6000**
Zinc, total	UG/L	3406-MW06	40					310.0000**
Antimony, total	UG/L	3406-MW07	39					30.0000**
Arsenic, total	UG/L	3406-MW07	39					10.6000**
Barium, total	UG/L	3406-MW07	39	361.5718	223.7632	0.0000	361.5718	1256.6246
Beryllium, total	UG/L	3406-MW07	39					2.0000**
Cadmium, total	UG/L	3406-MW07	39					1.0000**
Chromium, total	UG/L	3406-MW07	39					10.0000**
Cobalt, total	UG/L	3406-MW07	39					10.0000**
Copper, total	UG/L	3406-MW07	39					200.0000**
Lead, total	UG/L	3406-MW07	39					10.0000**
Nickel, total	UG/L	3406-MW07	39					50.0000**
Selenium, total	UG/L	3406-MW07	39					20.0000**
Silver, total	UG/L	3406-MW07	38					10.0000**
Thallium, total	UG/L	3406-MW07	39					10.0000**
Vanadium, total	UG/L	3406-MW07	39					40.0000**
Zinc, total	UG/L	3406-MW07	39					50.0000**
Antimony, total	UG/L	3406-MW08	40					30.0000**
Arsenic, total	UG/L	3406-MW08	40					11.3000**
Barium, total	UG/L	3406-MW08	39	351.3051	193.4109	0.0000	351.3051	1124.9489
Beryllium, total	UG/L	3406-MW08	39					2.0000**
Cadmium, total	UG/L	3406-MW08	40					1.3000**
Chromium, total	UG/L	3406-MW08	39					11.5000**
Cobalt, total	UG/L	3406-MW08	43	11.6512	3.4783	0.0000	11.6512	25.5645
Copper, total	UG/L	3406-MW08	39					200.0000**
Lead, total	UG/L	3406-MW08	40					56.8000**
Nickel, total	UG/L	3406-MW08	39					50.0000**
Selenium, total	UG/L	3406-MW08	39					20.0000**
Silver, total	UG/L	3406-MW08	39					11.6000**
Thallium, total	UG/L	3406-MW08	40					10.0000**
Vanadium, total	UG/L	3406-MW08	40					40.0000**
Zinc, total	UG/L	3406-MW08	39					79.1000**
Antimony, total	UG/L	3406-MW09R	36					30.0000**
Arsenic, total	UG/L	3406-MW09R	36					10.0000**
Barium, total	UG/L	3406-MW09R	36	382.9000	206.1481	0.0000	382.9000	1207.4925
Beryllium, total	UG/L	3406-MW09R	36					2.0000**
Cadmium, total	UG/L	3406-MW09R	36					1.0000**
Chromium, total	UG/L	3406-MW09R	36					49.9000**
Cobalt, total	UG/L	3406-MW09R	40					18.2000**
Copper, total	UG/L	3406-MW09R	36					200.0000**
Lead, total	UG/L	3406-MW09R	36					10.0000**
Nickel, total	UG/L	3406-MW09R	36					50.0000**
Selenium, total	UG/L	3406-MW09R	36					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	36					10.0000**
Thallium, total	UG/L	3406-MW09R	36					10.0000**
Vanadium, total	UG/L	3406-MW09R	37					106.0000**
Zinc, total	UG/L	3406-MW09R	36					87.9000**
Antimony, total	UG/L	3406-MW10	38					30.0000**
Arsenic, total	UG/L	3406-MW10	38					10.0000**
Barium, total	UG/L	3406-MW10	38	371.4237	218.0654	0.0000	371.4237	1243.6852
Beryllium, total	UG/L	3406-MW10	38					2.0000**
Cadmium, total	UG/L	3406-MW10	38					1.0000**
Chromium, total	UG/L	3406-MW10	40	9.6075	3.5570	0.0000	9.6075	23.8354
Cobalt, total	UG/L	3406-MW10	38					13.3000**
Copper, total	UG/L	3406-MW10	38					200.0000**
Lead, total	UG/L	3406-MW10	38					10.0000**
Nickel, total	UG/L	3406-MW10	38					50.0000**
Selenium, total	UG/L	3406-MW10	38					20.0000**
Silver, total	UG/L	3406-MW10	38					10.0000**
Thallium, total	UG/L	3406-MW10	38					10.0000**
Vanadium, total	UG/L	3406-MW10	38					40.0000**
Zinc, total	UG/L	3406-MW10	38					50.0000**
Antimony, total	UG/L	3406-MW11	38					30.0000**
Arsenic, total	UG/L	3406-MW11	38					10.0000**
Barium, total	UG/L	3406-MW11	38					500.0000**
Beryllium, total	UG/L	3406-MW11	38					2.0000**
Cadmium, total	UG/L	3406-MW11	38					1.0000**
Chromium, total	UG/L	3406-MW11	38					10.0000**
Cobalt, total	UG/L	3406-MW11	38					10.0000**
Copper, total	UG/L	3406-MW11	38					200.0000**
Lead, total	UG/L	3406-MW11	38					10.0000**
Nickel, total	UG/L	3406-MW11	38					50.0000**
Selenium, total	UG/L	3406-MW11	38					20.0000**
Silver, total	UG/L	3406-MW11	38					10.0000**
Thallium, total	UG/L	3406-MW11	38					10.0000**
Vanadium, total	UG/L	3406-MW11	38					40.0000**
Zinc, total	UG/L	3406-MW11	38	40.2342	16.6502	0.0000	40.2342	106.8351
Antimony, total	UG/L	3406-MW11D	38					30.0000**
Arsenic, total	UG/L	3406-MW11D	38					10.0000**
Barium, total	UG/L	3406-MW11D	38	409.7632	167.2930	0.0000	409.7632	1078.9350
Beryllium, total	UG/L	3406-MW11D	38					2.4000**
Cadmium, total	UG/L	3406-MW11D	38					1.4000**
Chromium, total	UG/L	3406-MW11D	40	12.7775	10.3504	0.0000	12.7775	54.1790
Cobalt, total	UG/L	3406-MW11D	38					50.3000**
Copper, total	UG/L	3406-MW11D	39	172.0231	65.6841	0.0000	172.0231	434.7596
Lead, total	UG/L	3406-MW11D	38					12.7000**
Nickel, total	UG/L	3406-MW11D	38					50.0000**
Selenium, total	UG/L	3406-MW11D	38					20.0000**
Silver, total	UG/L	3406-MW11D	38					10.0000**
Thallium, total	UG/L	3406-MW11D	38					10.0000**
Vanadium, total	UG/L	3406-MW11D	39					174.0000**
Zinc, total	UG/L	3406-MW11D	39	54.0872	29.0968	0.0000	54.0872	170.4743
Antimony, total	UG/L	3406-MW12	38					30.0000**
Arsenic, total	UG/L	3406-MW12	38					10.0000**
Barium, total	UG/L	3406-MW12	38	375.4368	211.5372	0.0000	375.4368	1221.5858
Beryllium, total	UG/L	3406-MW12	38					2.0000**
Cadmium, total	UG/L	3406-MW12	38					1.0000**
Chromium, total	UG/L	3406-MW12	39					14.0000**
Cobalt, total	UG/L	3406-MW12	38					11.0000**
Copper, total	UG/L	3406-MW12	38					200.0000**
Lead, total	UG/L	3406-MW12	39					25.0000**
Nickel, total	UG/L	3406-MW12	38					50.0000**
Selenium, total	UG/L	3406-MW12	38					20.0000**
Silver, total	UG/L	3406-MW12	38					10.0000**
Thallium, total	UG/L	3406-MW12	38					10.0000**
Vanadium, total	UG/L	3406-MW12	38					40.0000**
Zinc, total	UG/L	3406-MW12	38	58.9500	51.1508	0.0000	58.9500	263.5531
Antimony, total	UG/L	3406-MW12D	38					30.0000**
Arsenic, total	UG/L	3406-MW12D	38					10.0000**
Barium, total	UG/L	3406-MW12D	39	403.0718	175.5681	0.0000	403.0718	1105.3441
Beryllium, total	UG/L	3406-MW12D	38					2.6000**
Cadmium, total	UG/L	3406-MW12D	38					1.0000**
Chromium, total	UG/L	3406-MW12D	39	34.0128	62.3518	0.0000	34.0128	283.4199
Cobalt, total	UG/L	3406-MW12D	39	16.4410	19.6355	0.0000	16.4410	94.9831
Copper, total	UG/L	3406-MW12D	39					208.0000**
Lead, total	UG/L	3406-MW12D	39					59.0000**

* - Insufficient Data
** - Detection Frequency < 25%
*** - Zero Variance

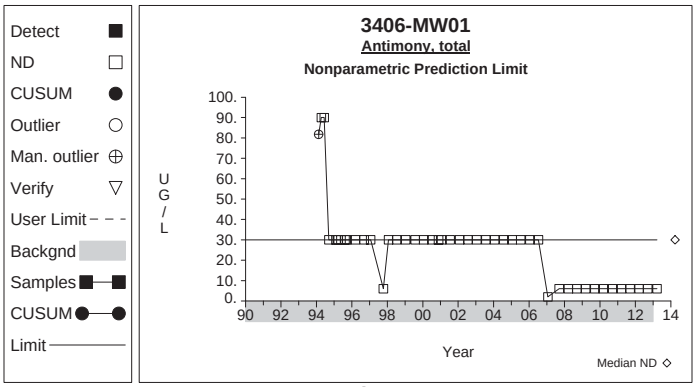
Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-Cusum Control Charts

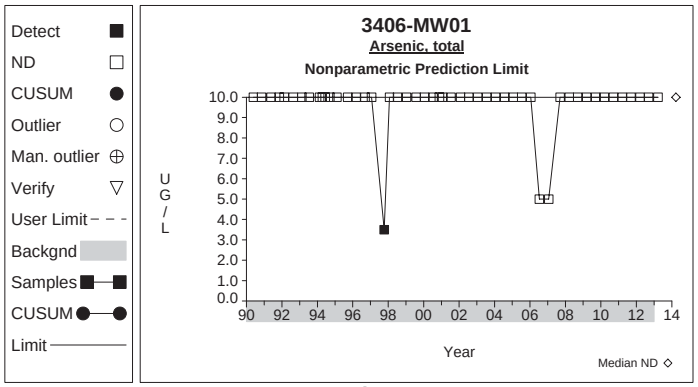
Constituent	Units	Well	N	Mean	SD	S(i-1)	S(i)	Limit
Nickel, total	UG/L	3406-MW12D	39					108.0000**
Selenium, total	UG/L	3406-MW12D	38					20.0000**
Silver, total	UG/L	3406-MW12D	38					10.0000**
Thallium, total	UG/L	3406-MW12D	38					10.0000**
Vanadium, total	UG/L	3406-MW12D	39	65.5154	76.5384	0.0000	65.5154	371.6690
Zinc, total	UG/L	3406-MW12D	39	82.3513	107.0410	0.0000	82.3513	510.5153

* - Insufficient Data
** - Detection Frequency < 25%
*** - Zero Variance

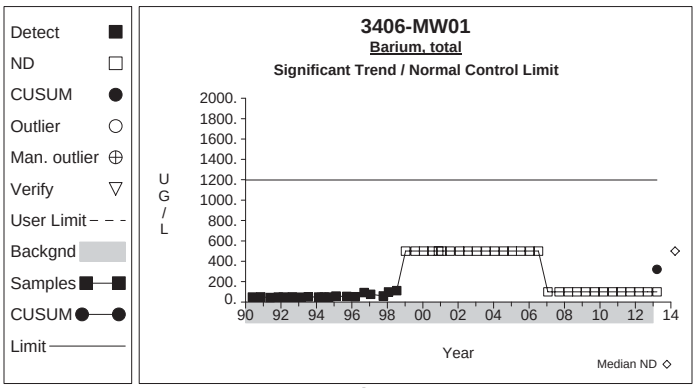
Intra-Well Control Charts



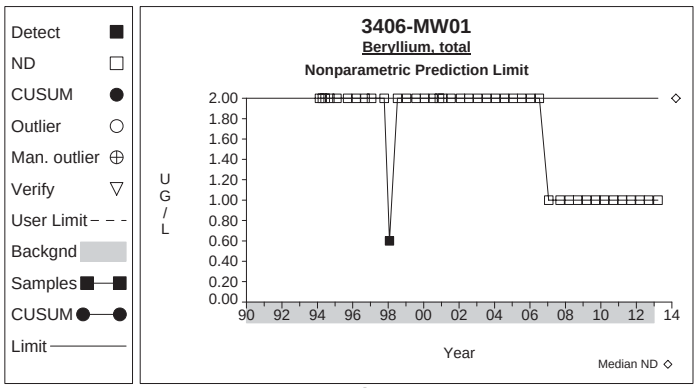
Graph 1



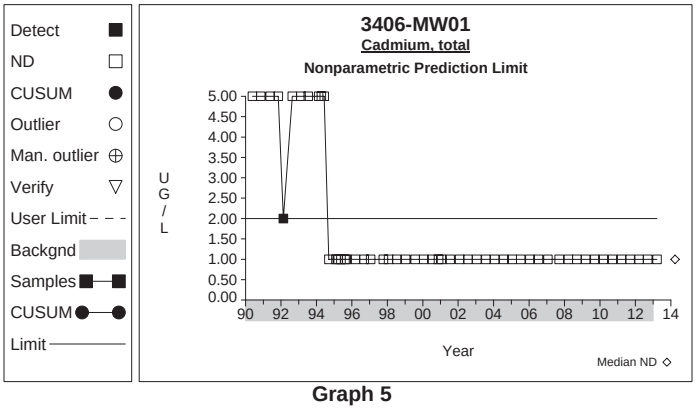
Graph 2



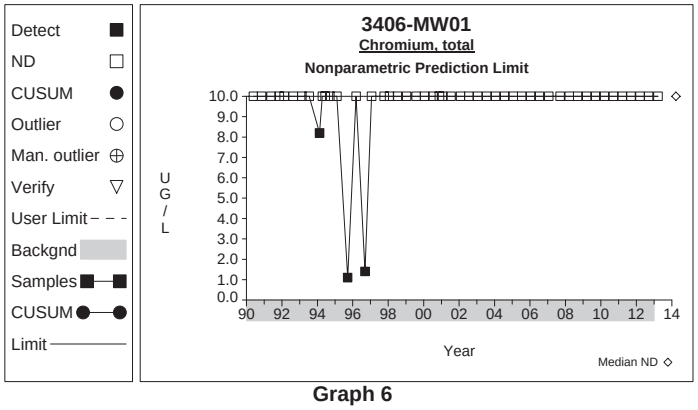
Graph 3



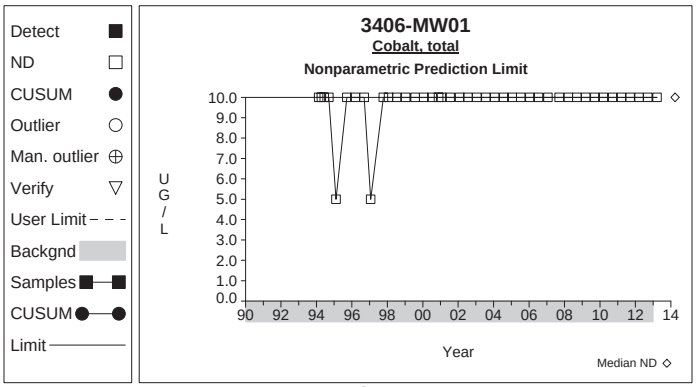
Graph 4



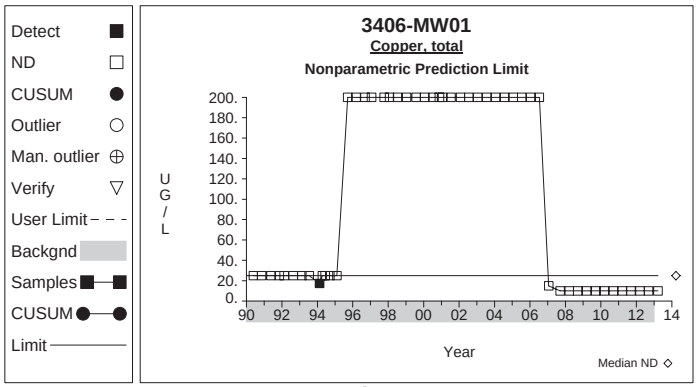
Graph 5



Graph 6

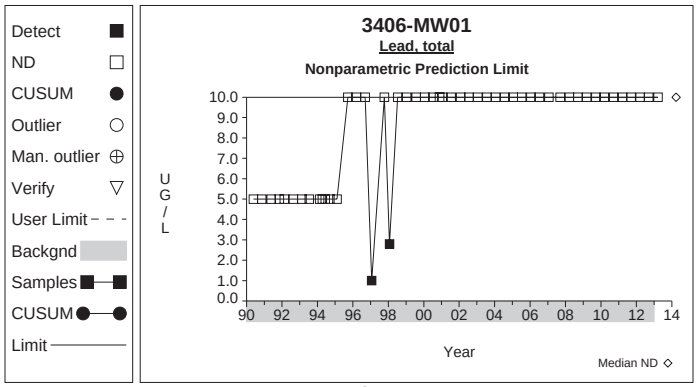


Graph 7

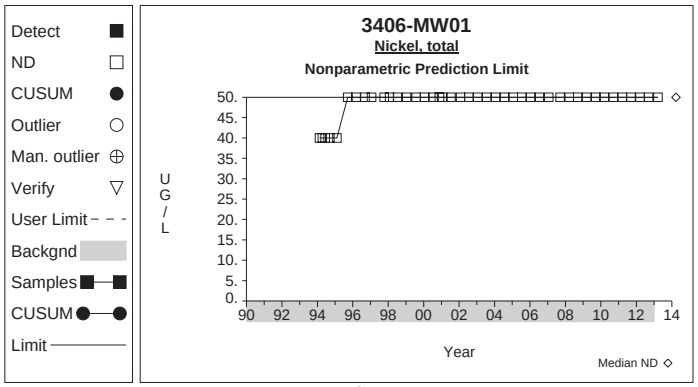


Graph 8

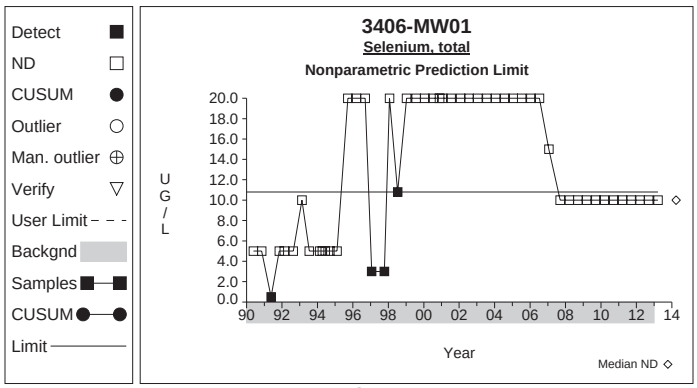
Intra-Well Control Charts



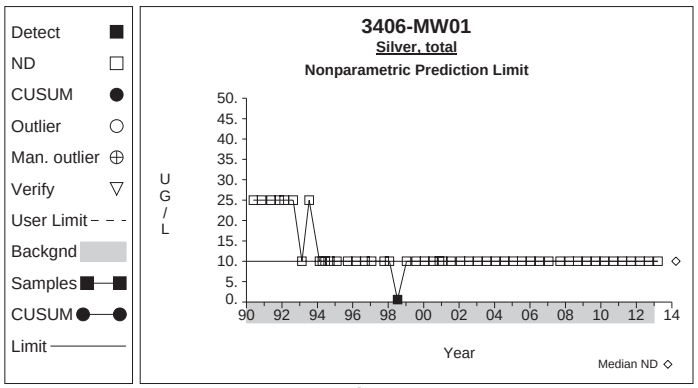
Graph 9



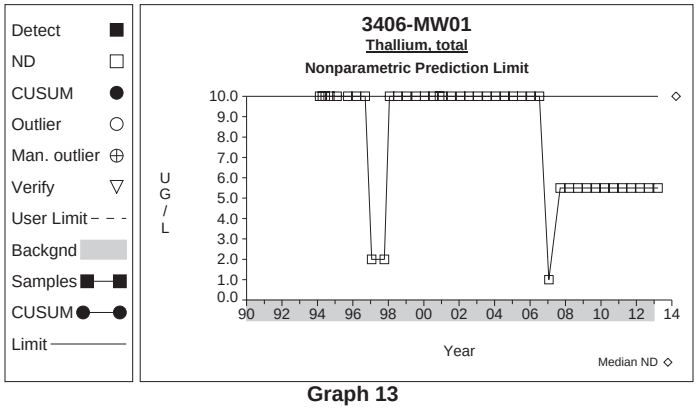
Graph 10



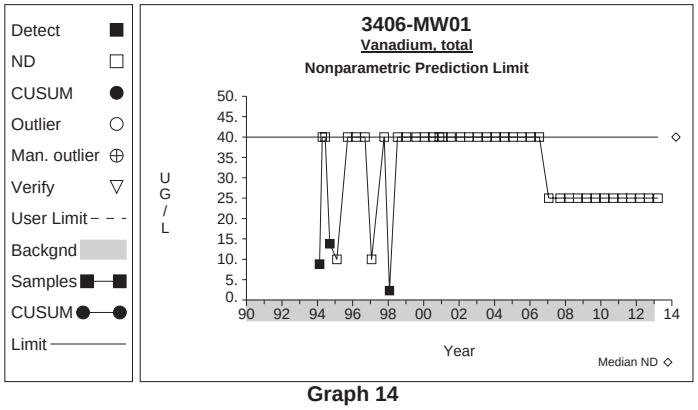
Graph 11



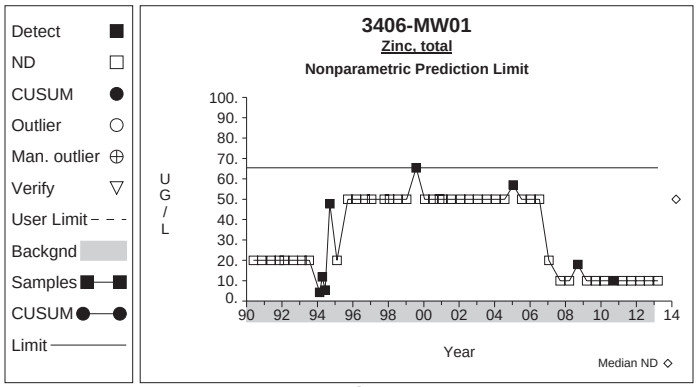
Graph 12



Graph 13

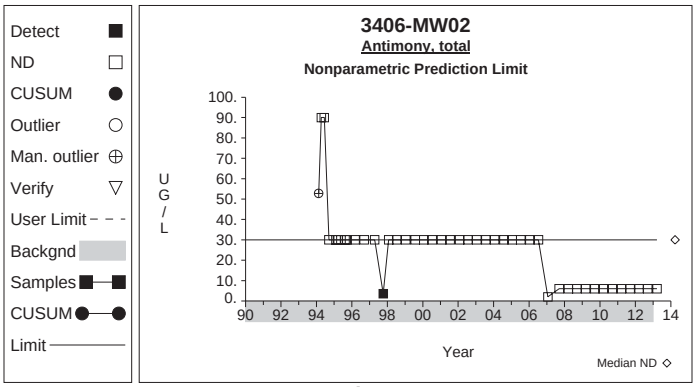


Graph 14

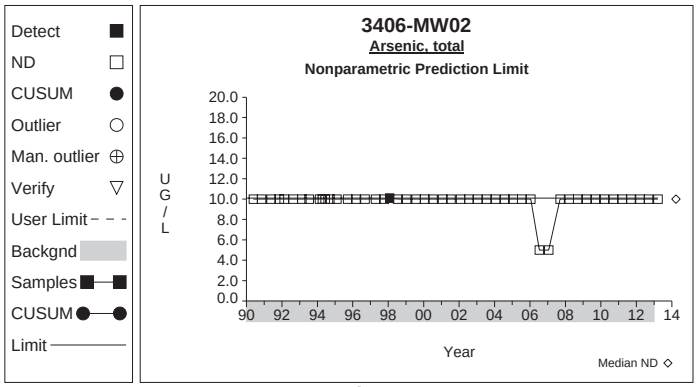


Graph 15

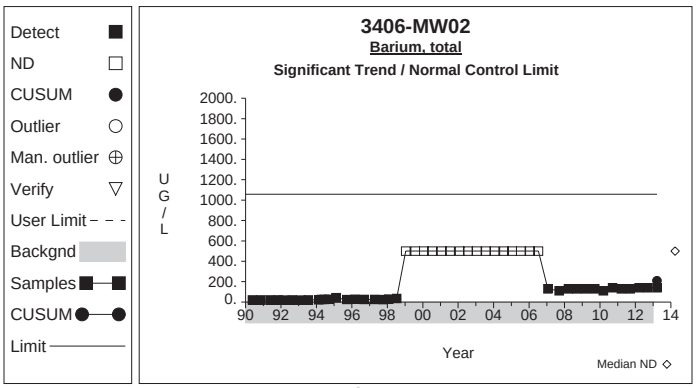
Intra-Well Control Charts



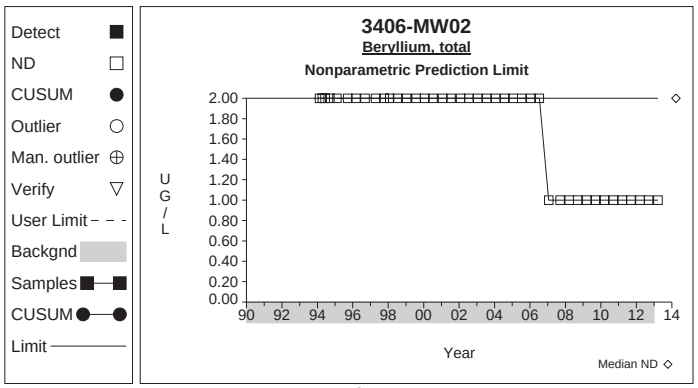
Graph 16



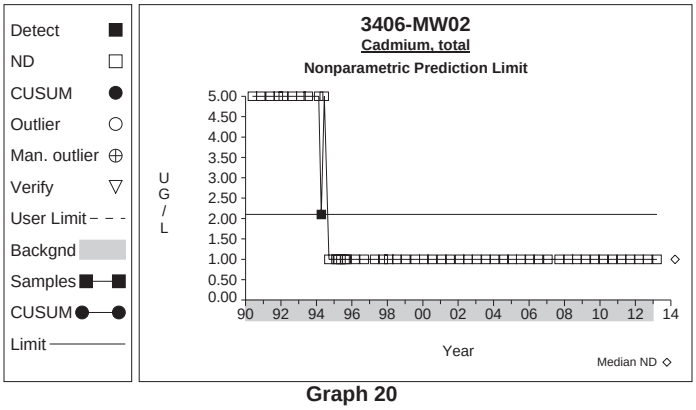
Graph 17



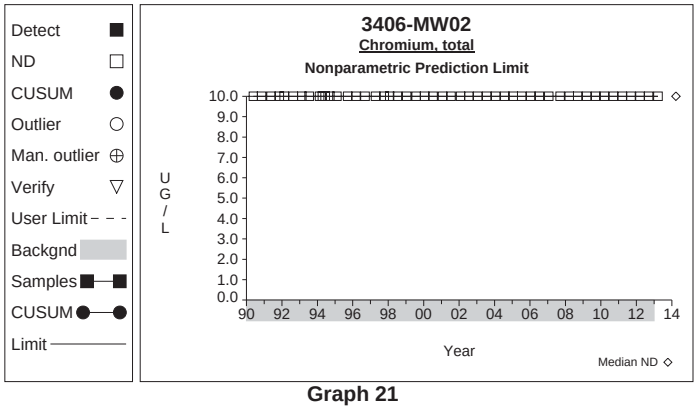
Graph 18



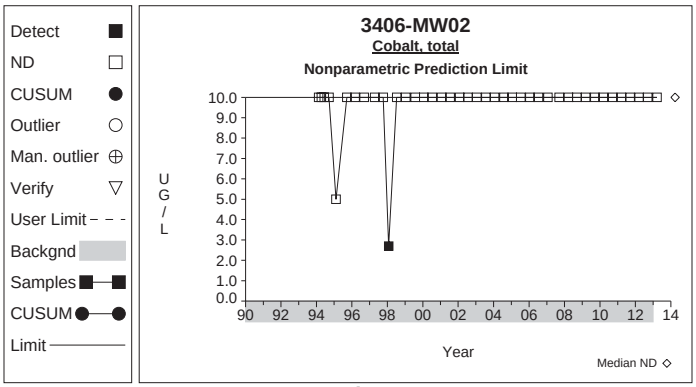
Graph 19



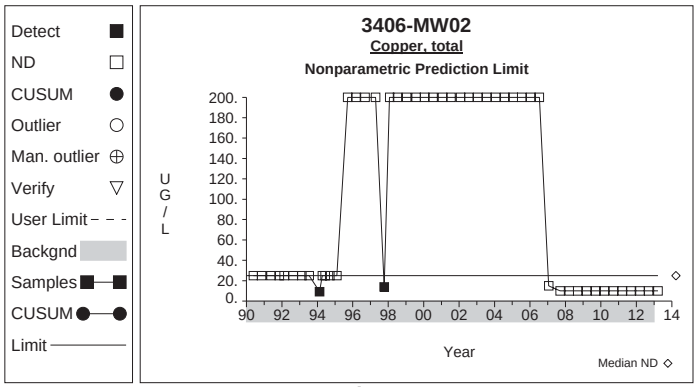
Graph 20



Graph 21

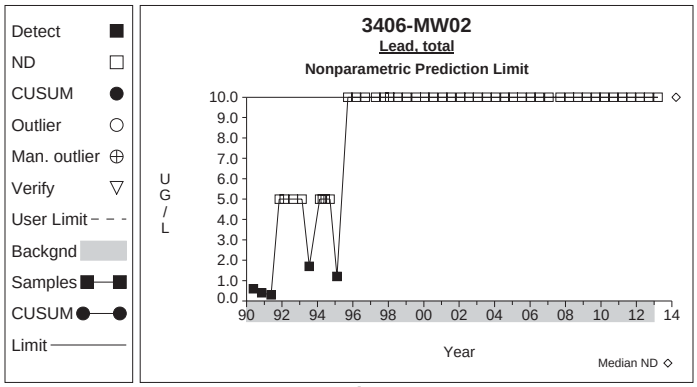


Graph 22

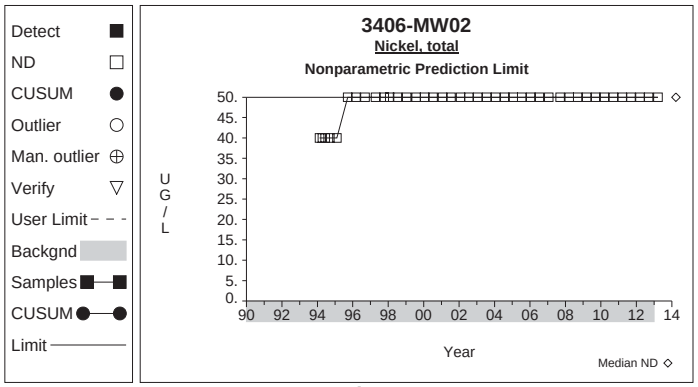


Graph 23

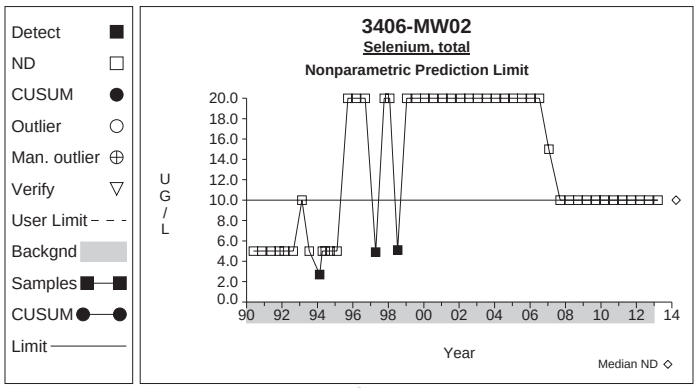
Intra-Well Control Charts



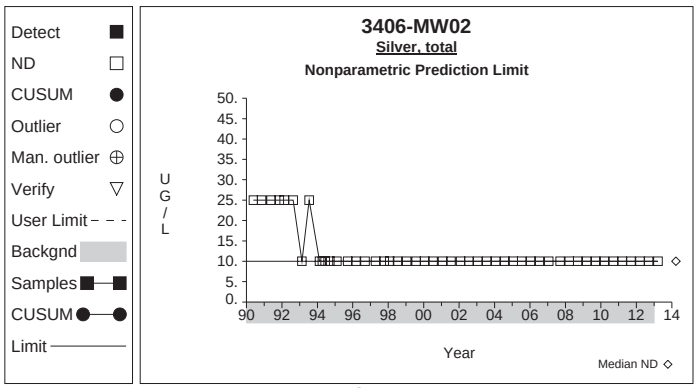
Graph 24



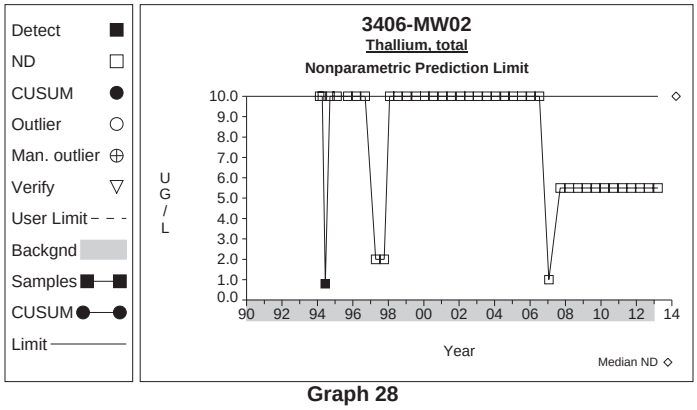
Graph 25



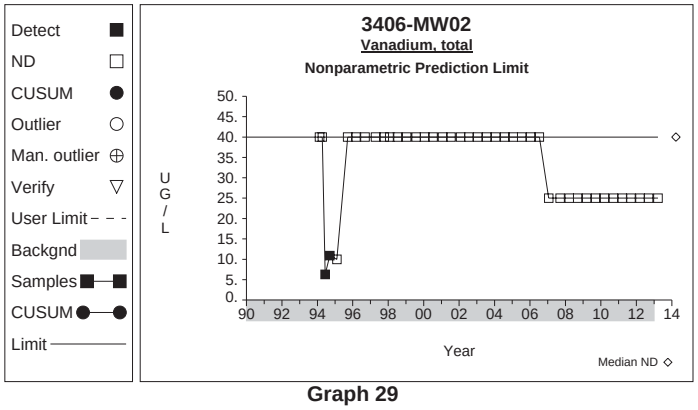
Graph 26



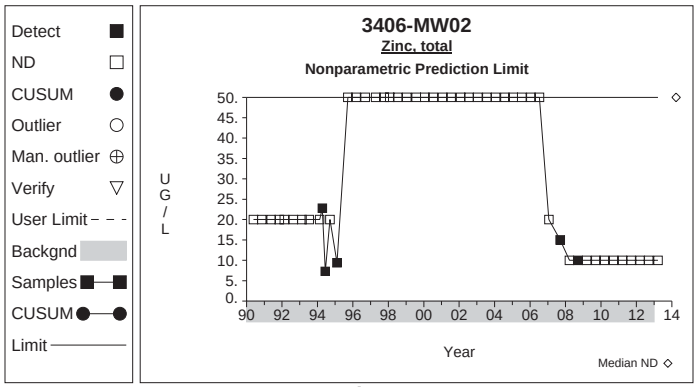
Graph 27



Graph 28

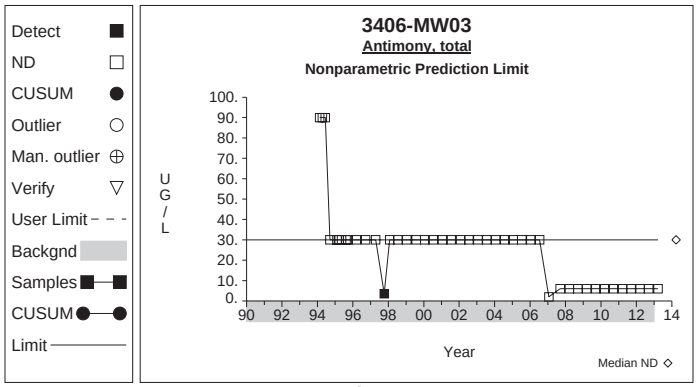


Graph 29

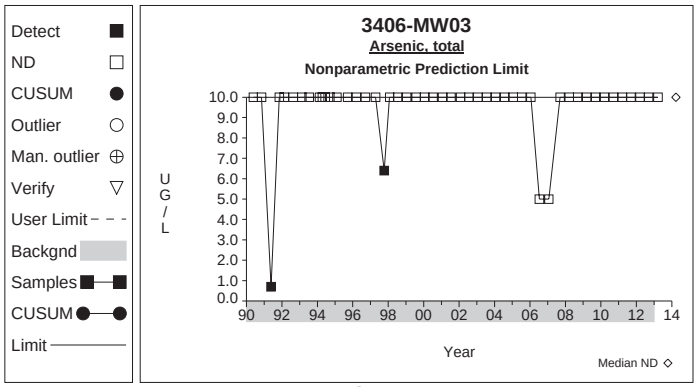


Graph 30

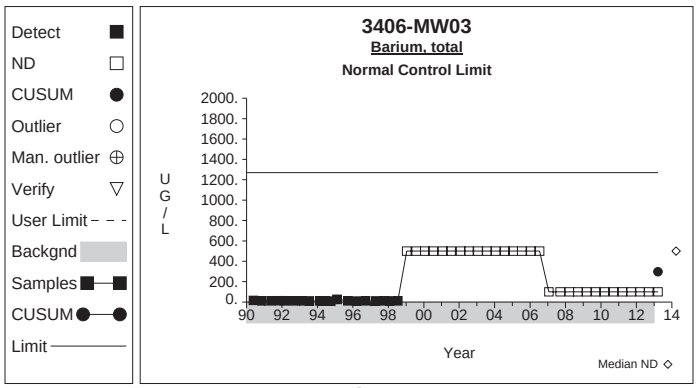
Intra-Well Control Charts



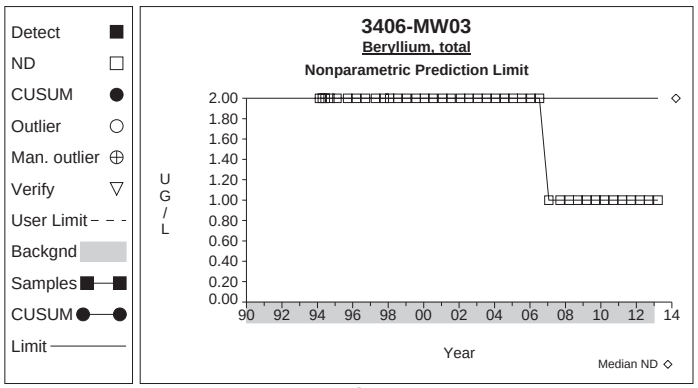
Graph 31



Graph 32



Graph 33



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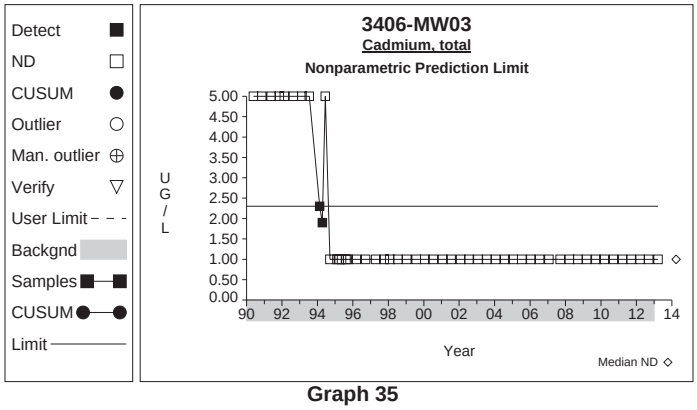
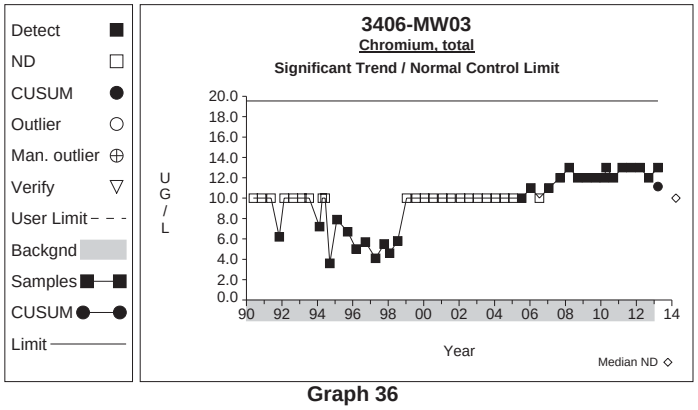


Graph 35



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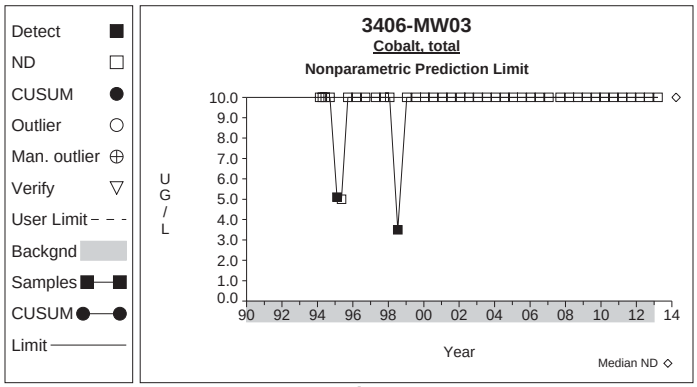
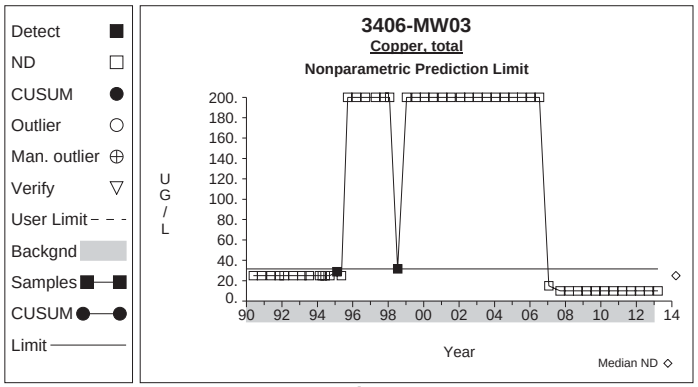
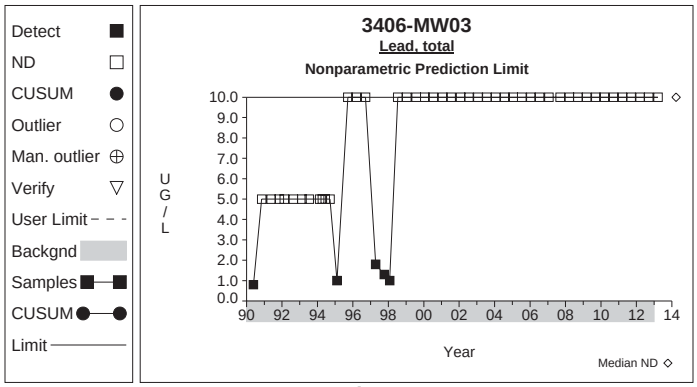


Graph 37

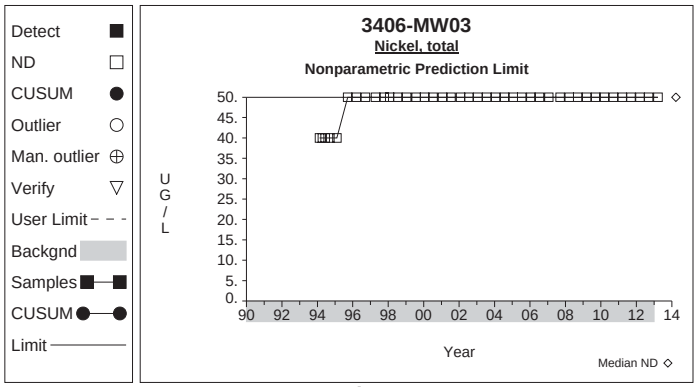


Graph 38

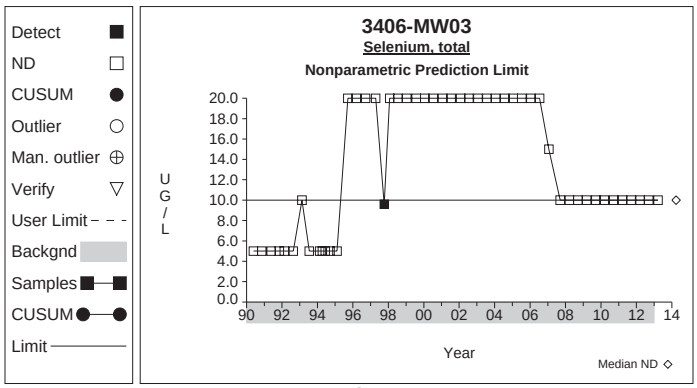
Intra-Well Control Charts



Graph 39



Graph 40



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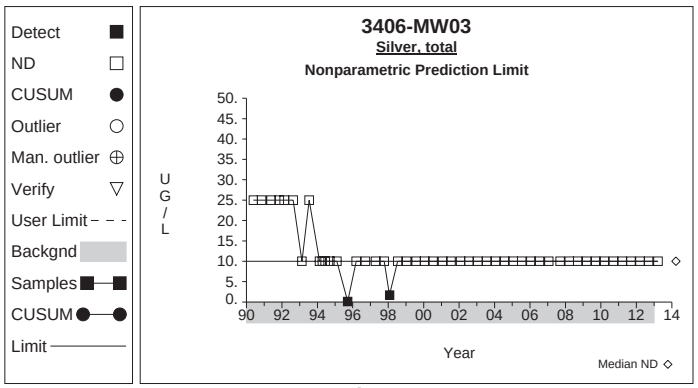
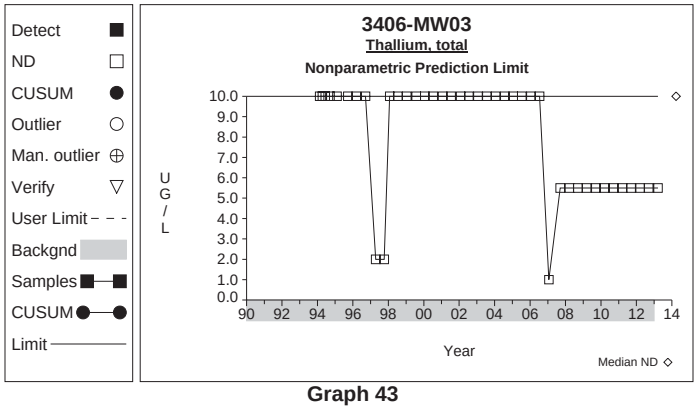


Graph 42



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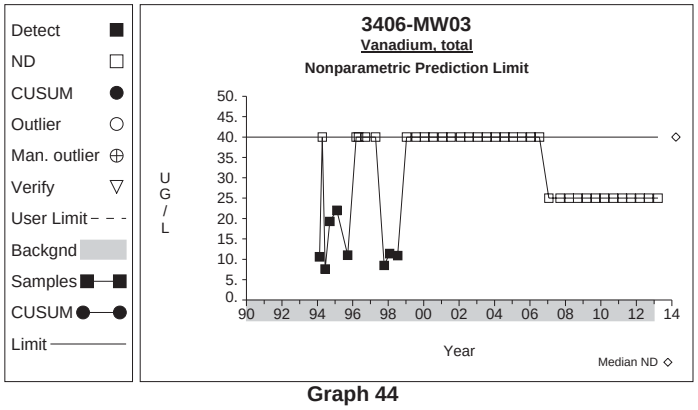
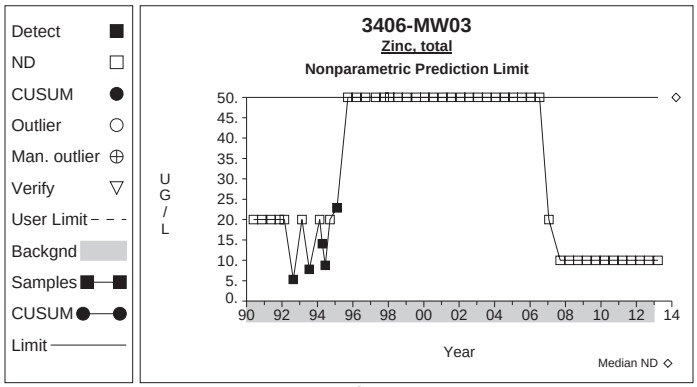
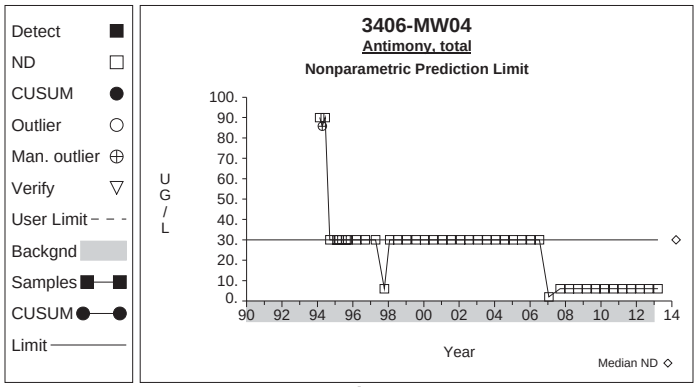


Graph 44

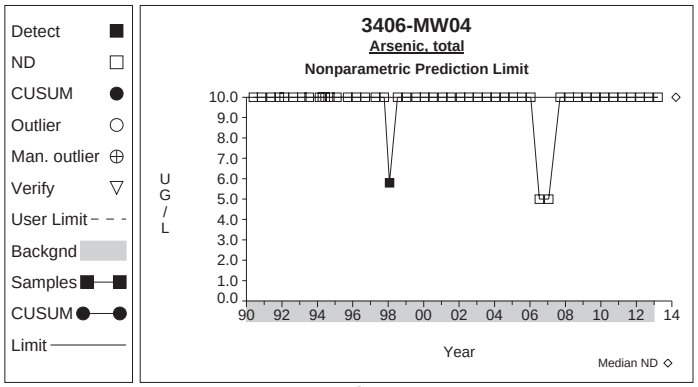


Graph 45

Intra-Well Control Charts



Graph 46



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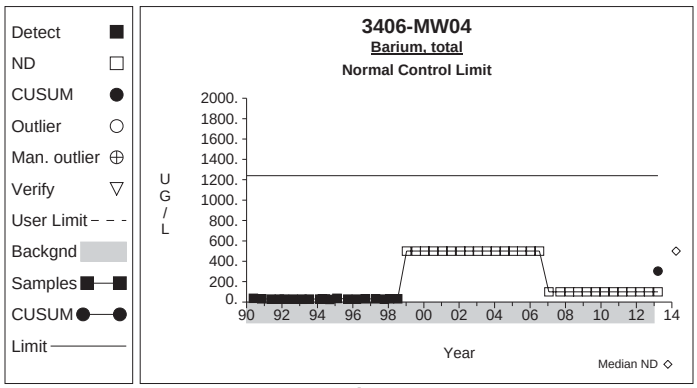
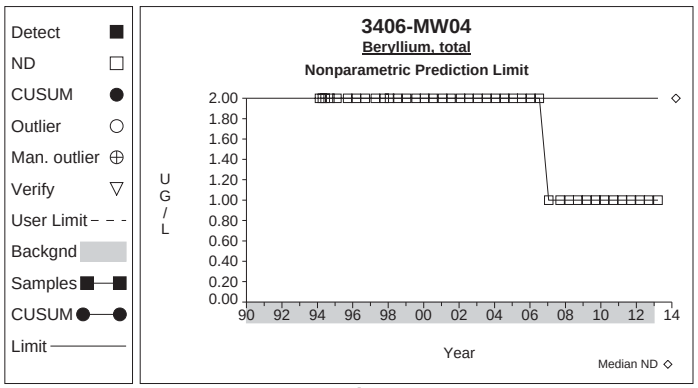
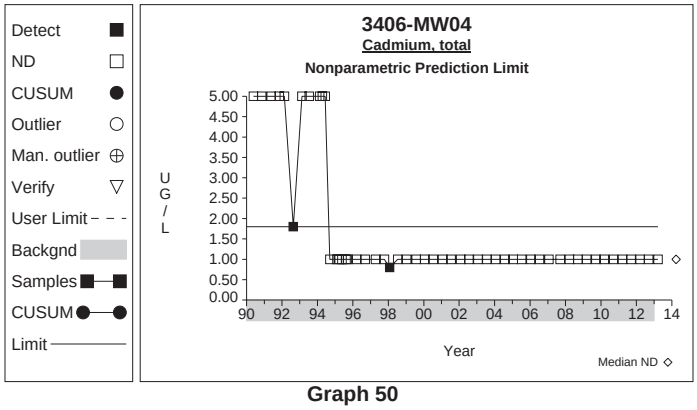


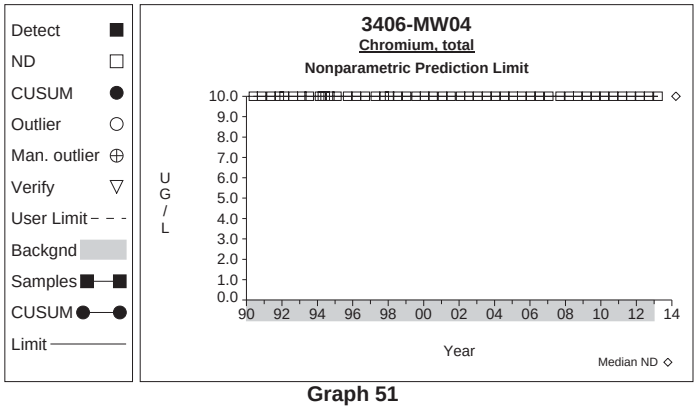
Graph 48



Graph 49



Graph 50



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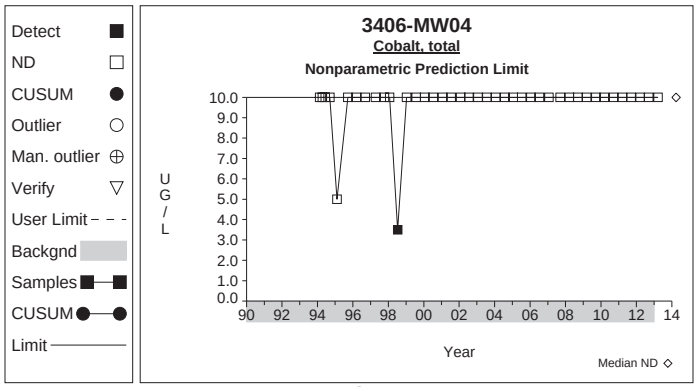
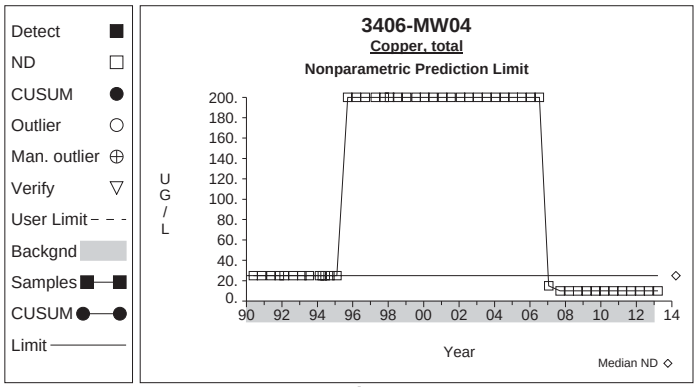
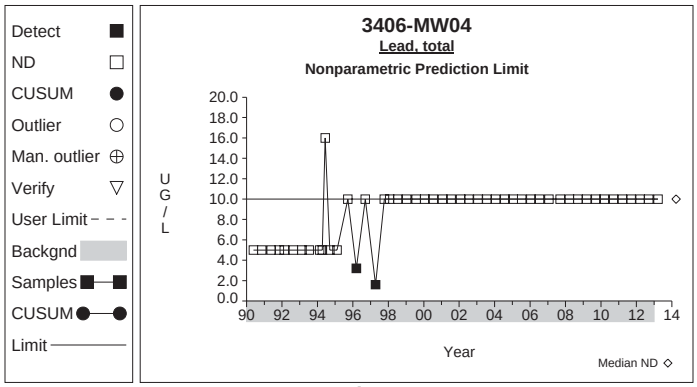


Graph 52

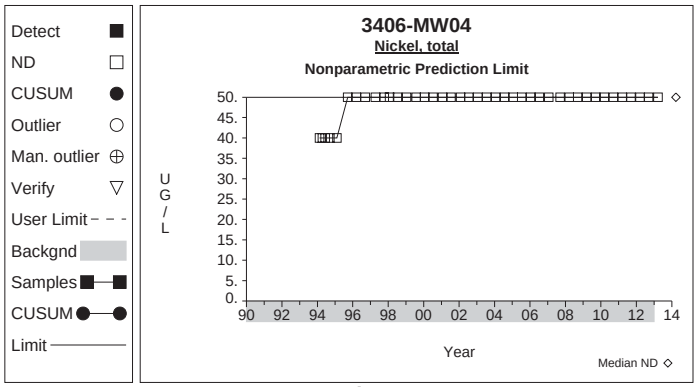


Graph 53

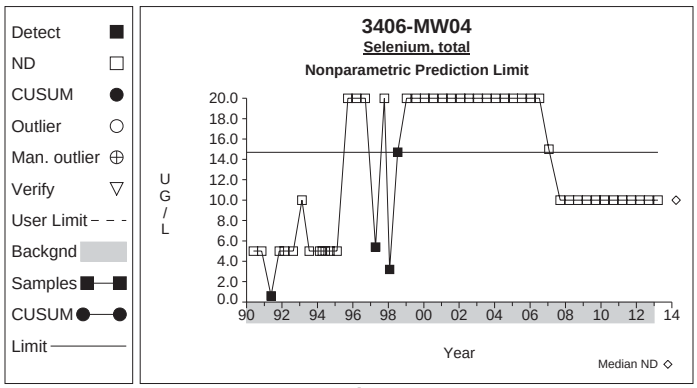
Intra-Well Control Charts



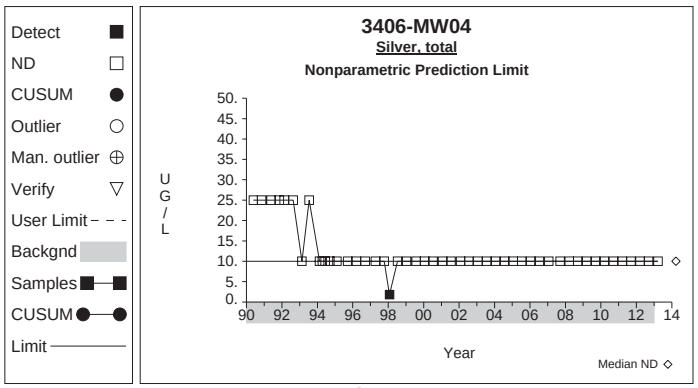
Graph 54



Graph 55



Graph 56



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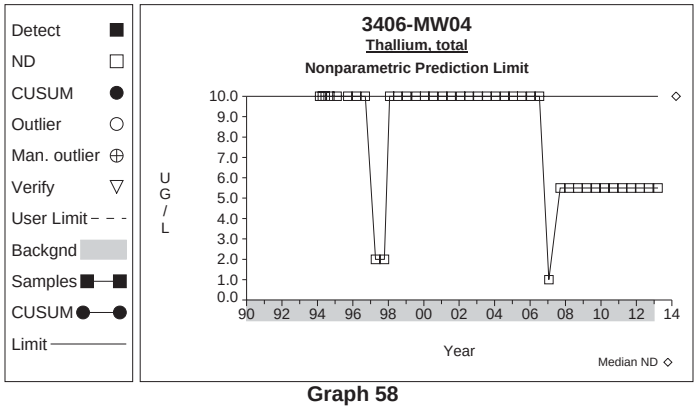

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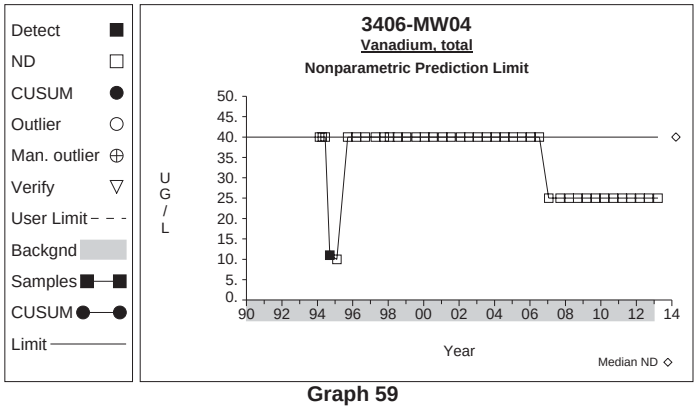
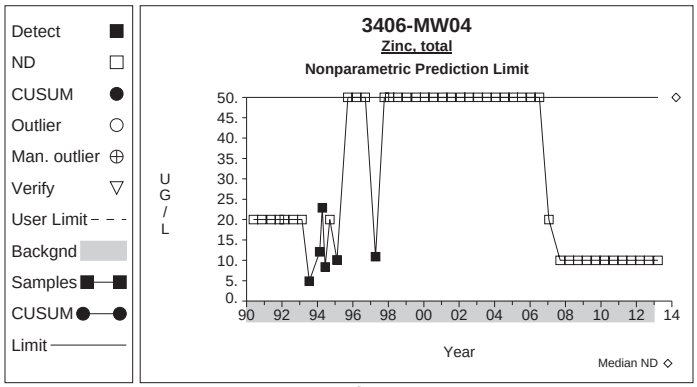
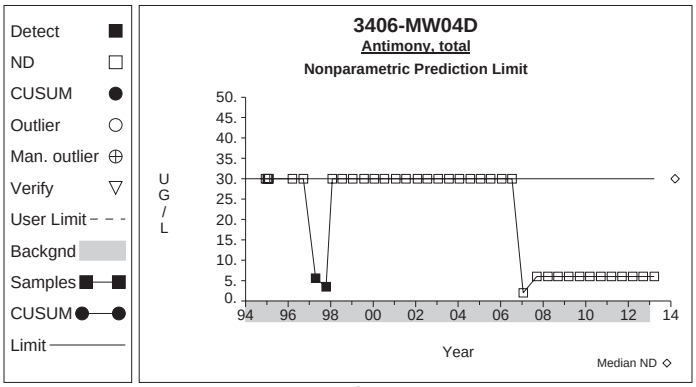


Graph 59

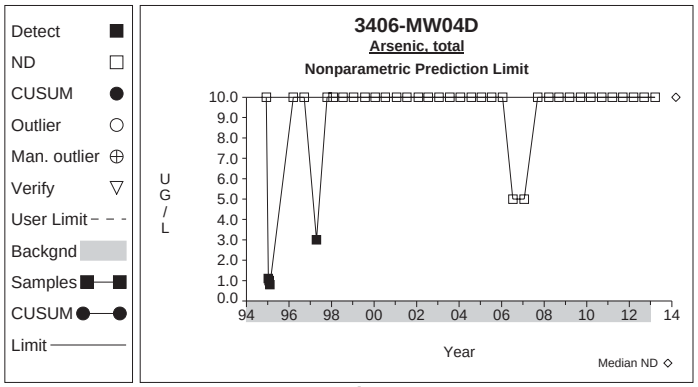


Graph 60

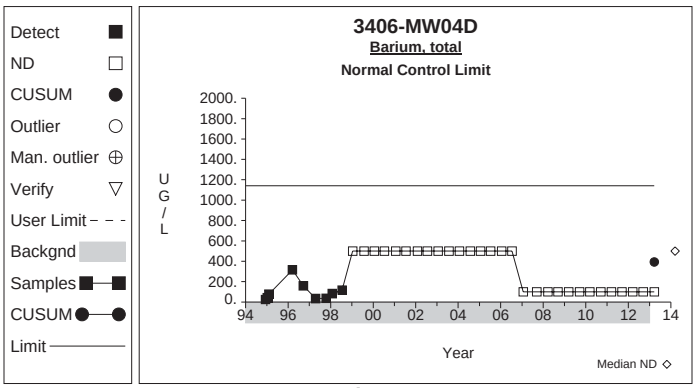
Intra-Well Control Charts



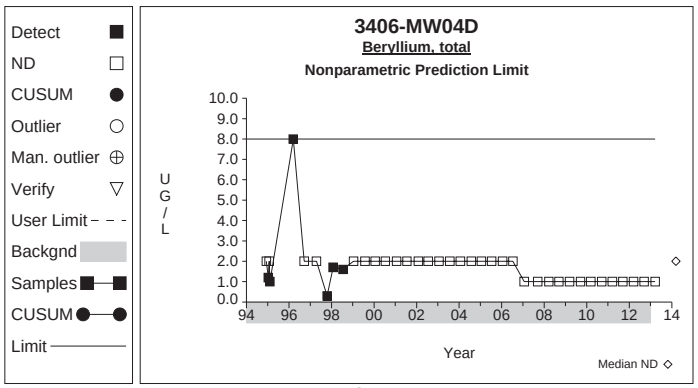
Graph 61



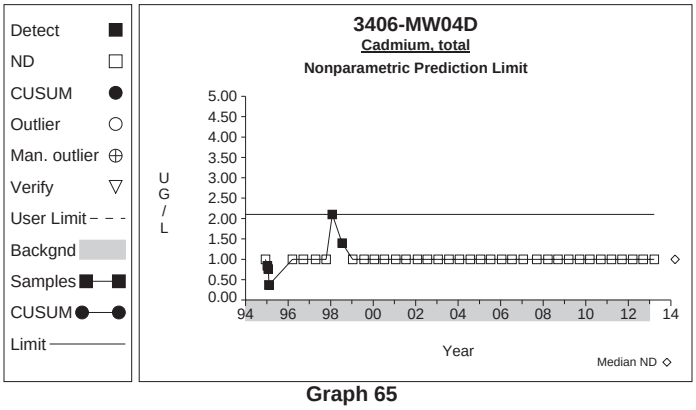
Graph 62



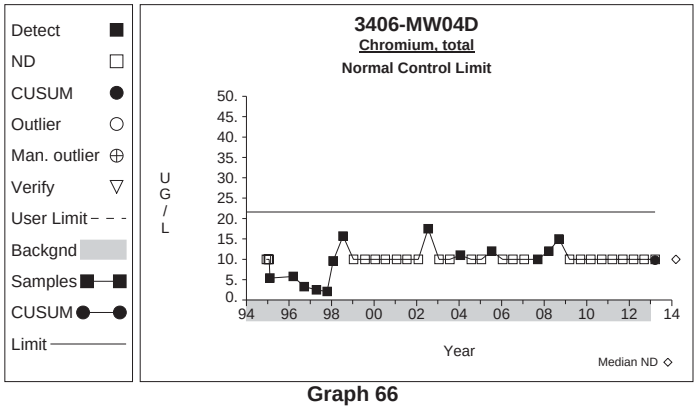
Graph 63



Graph 64



Graph 65



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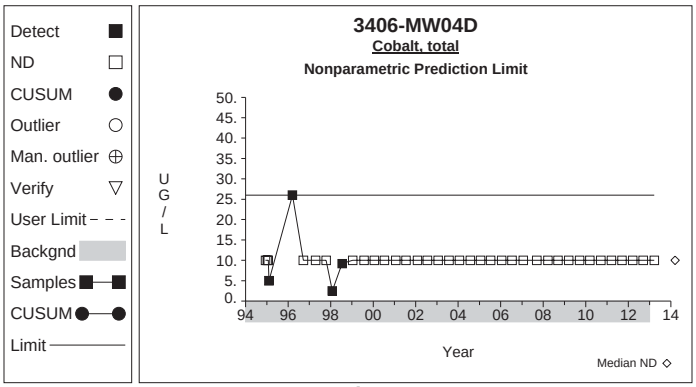
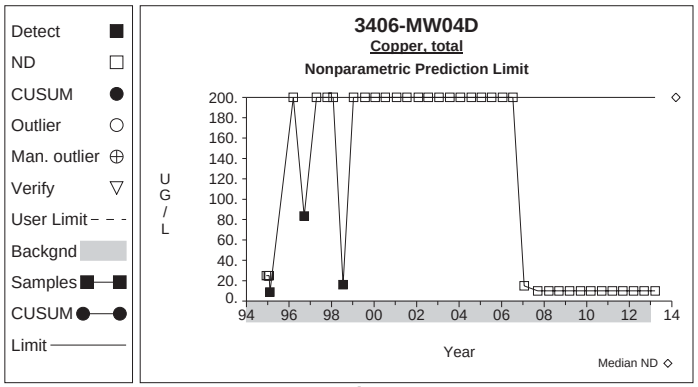
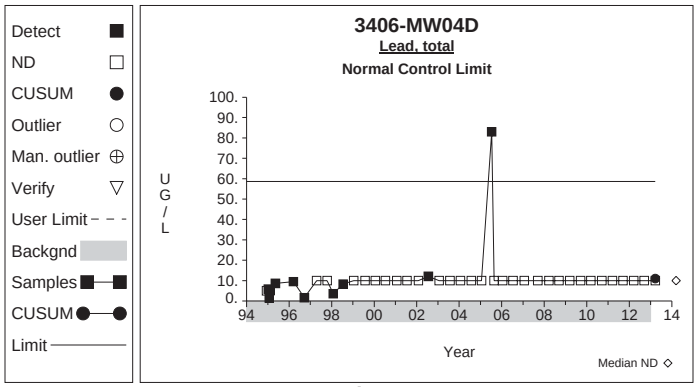


Graph 67

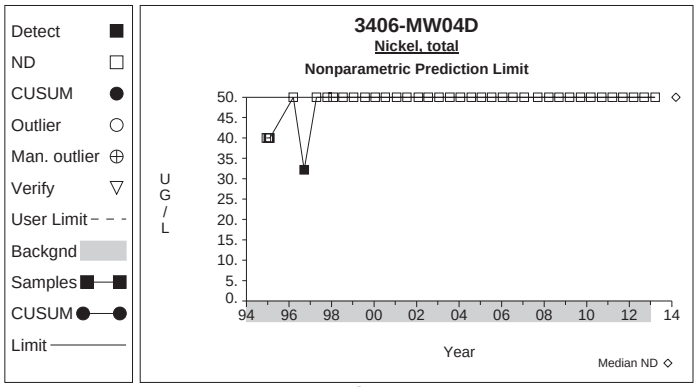


Graph 68

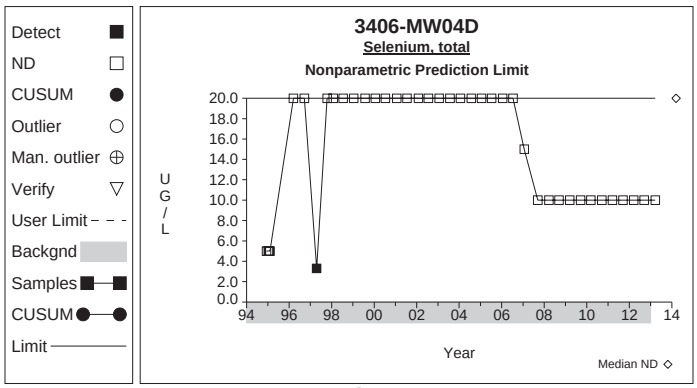
Intra-Well Control Charts



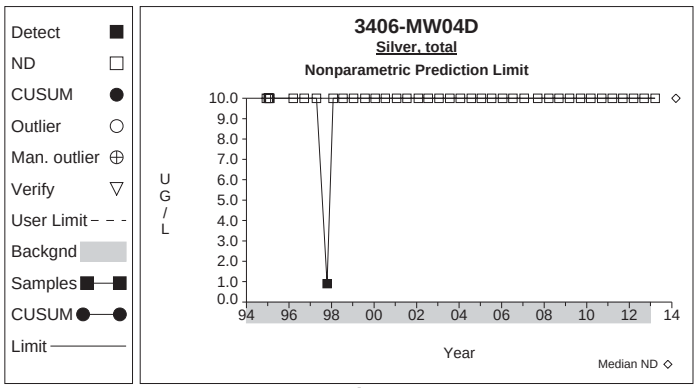
Graph 69



Graph 70



Graph 71



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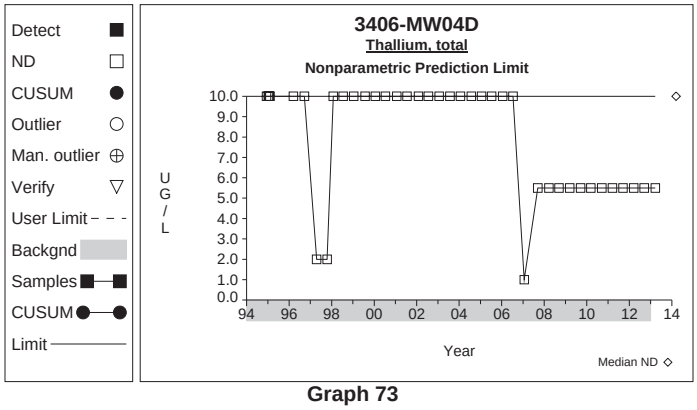
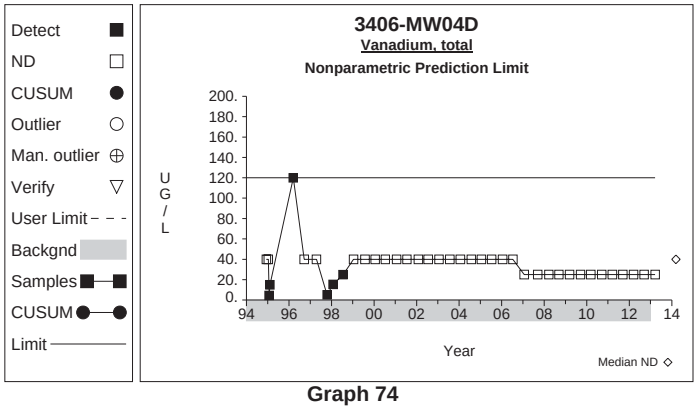
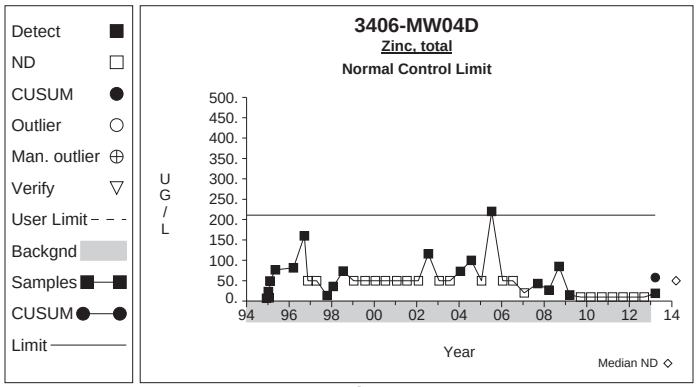


Graph 73

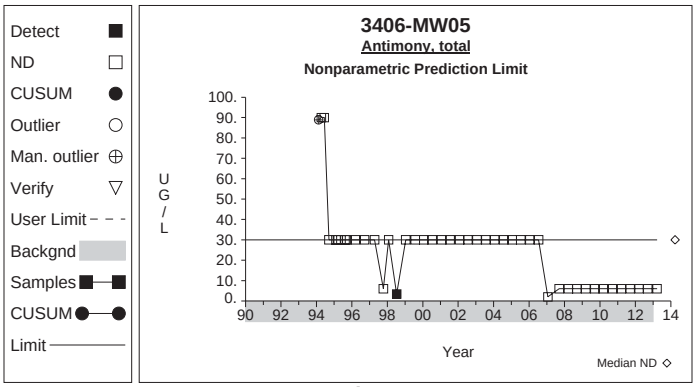


Graph 74

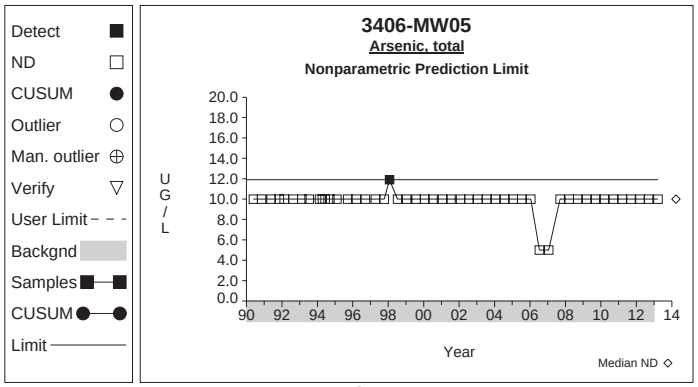


Graph 75

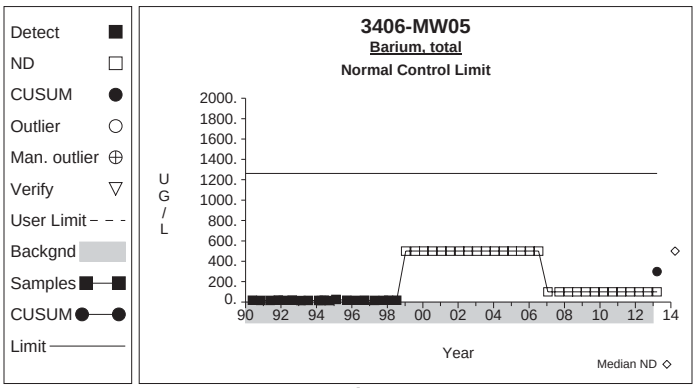
Intra-Well Control Charts



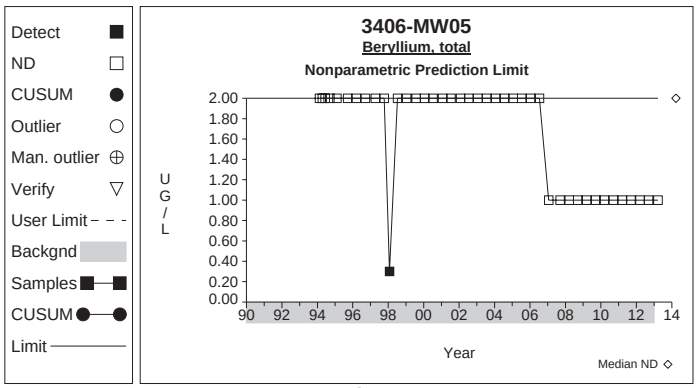
Graph 76



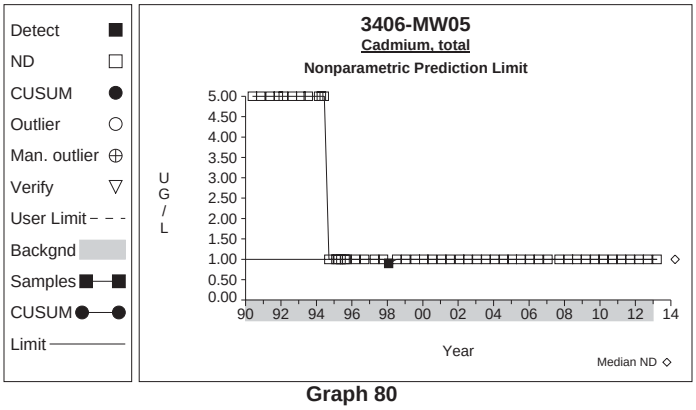
Graph 77



Graph 78



Graph 79



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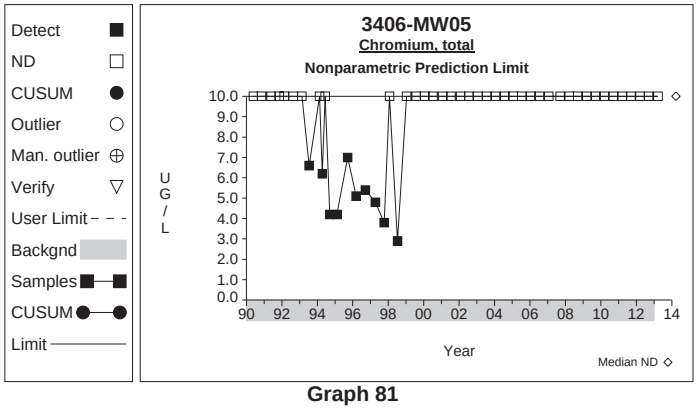
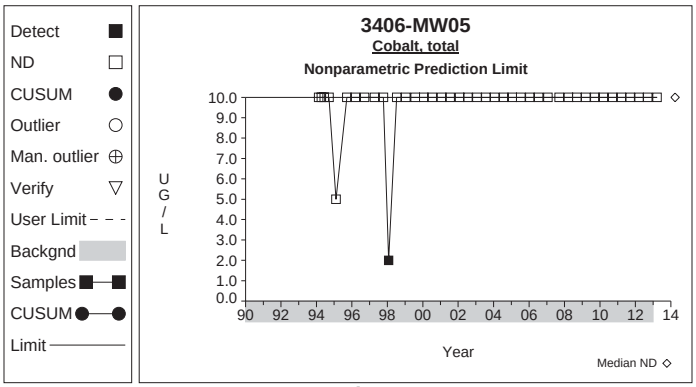
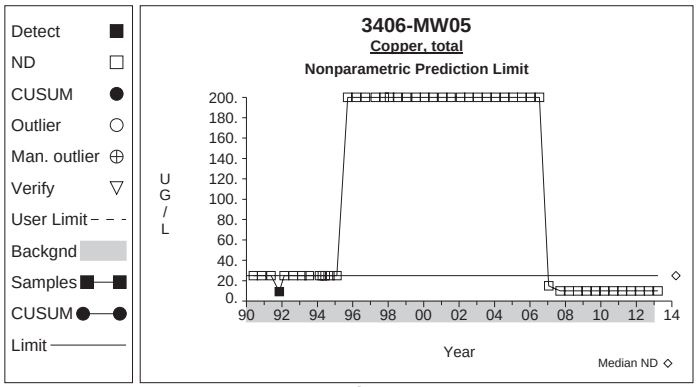


Graph 81

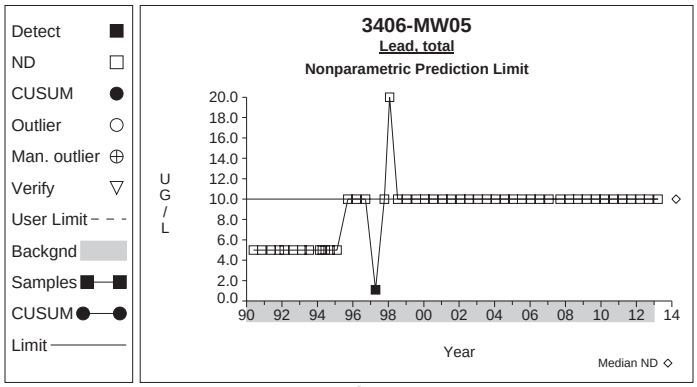


Graph 82

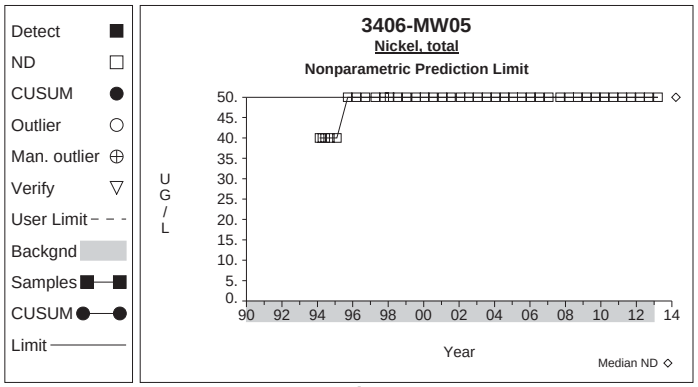


Graph 83

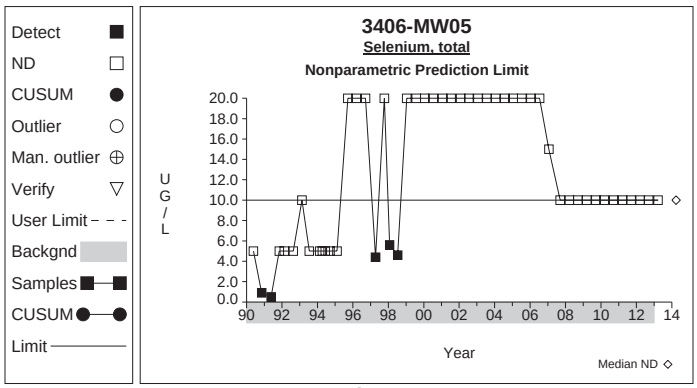
Intra-Well Control Charts



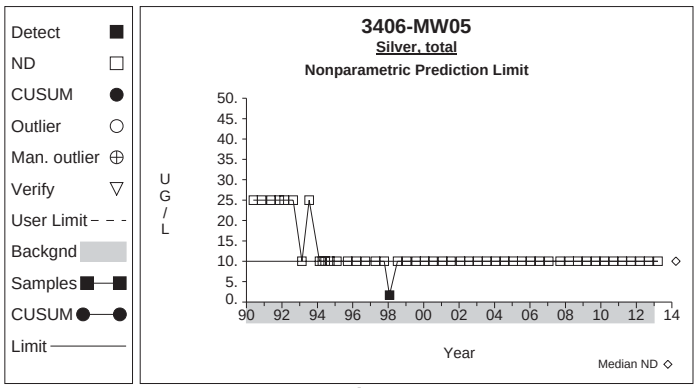
Graph 84



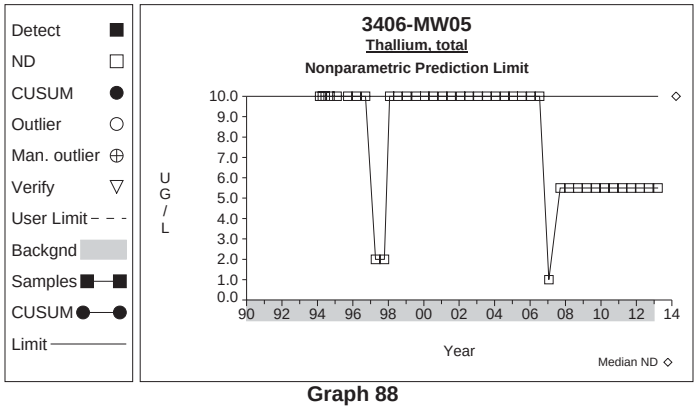
Graph 85



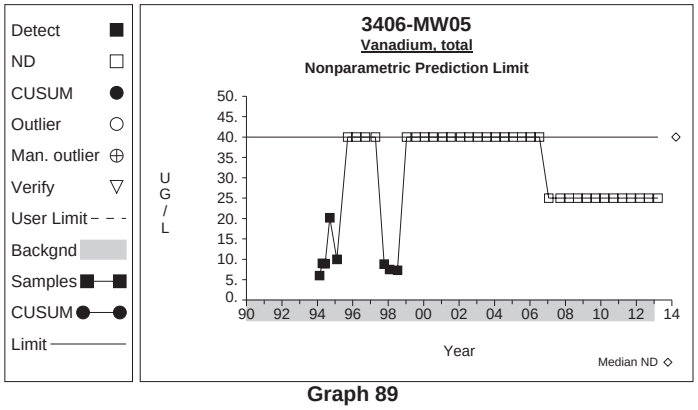
Graph 86



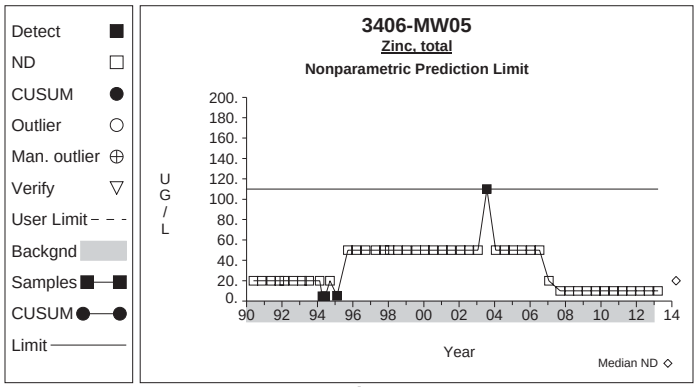
Graph 87



Graph 88

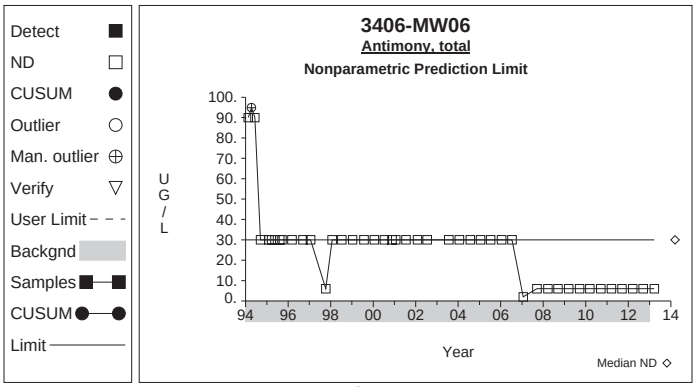


Graph 89

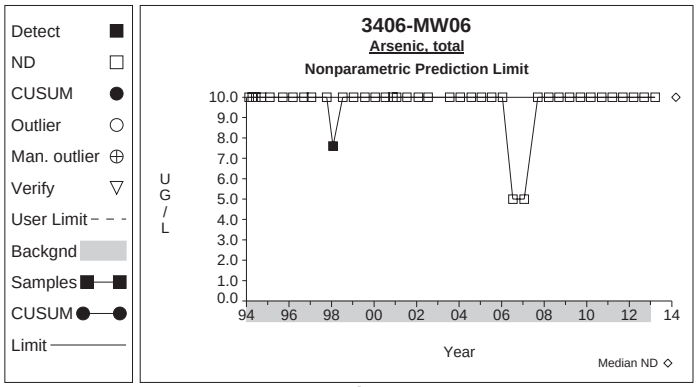


Graph 90

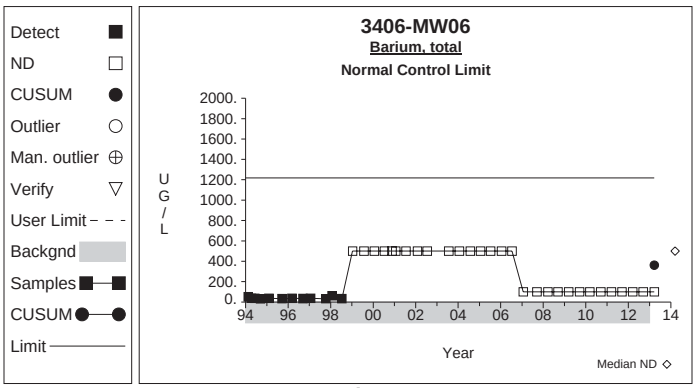
Intra-Well Control Charts



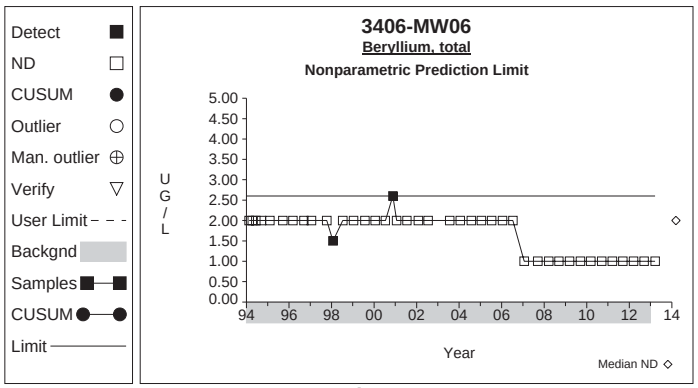
Graph 91



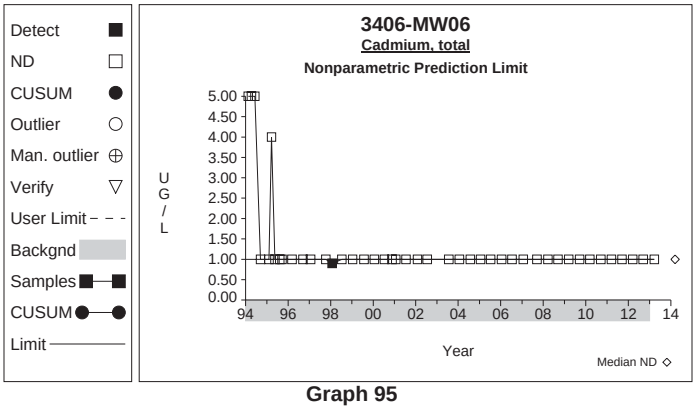
Graph 92



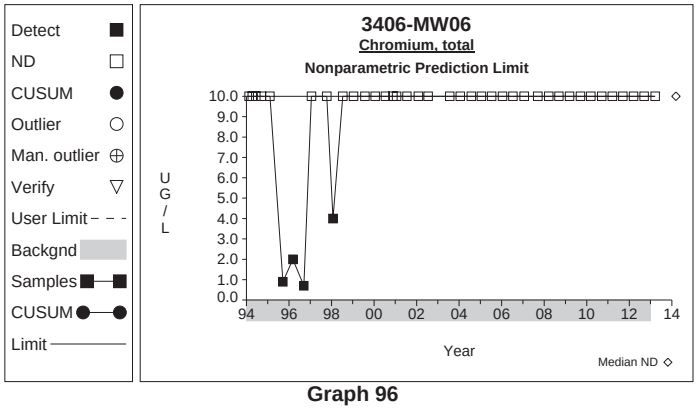
Graph 93



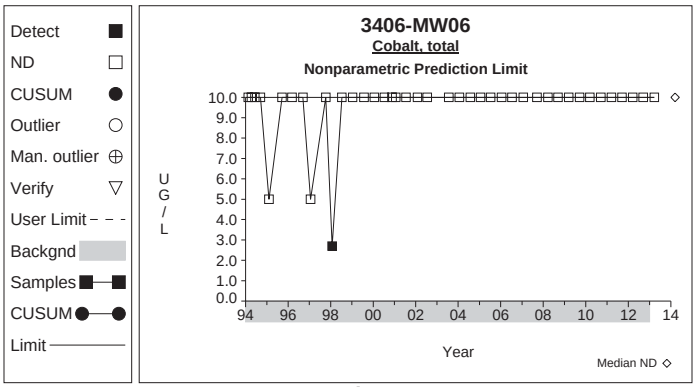
Graph 94



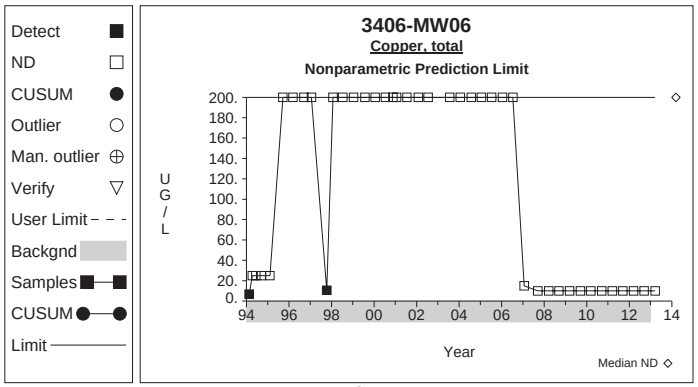
Graph 95



Graph 96

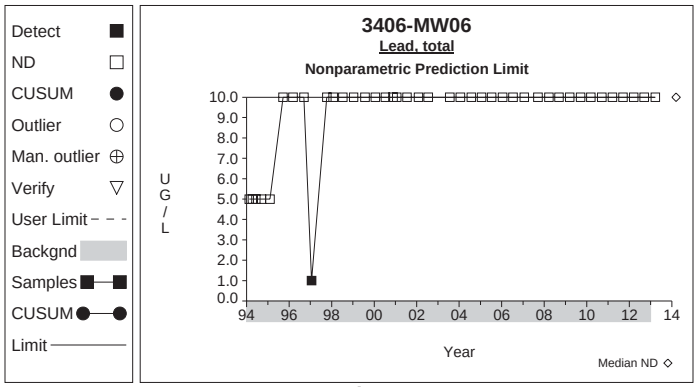


Graph 97

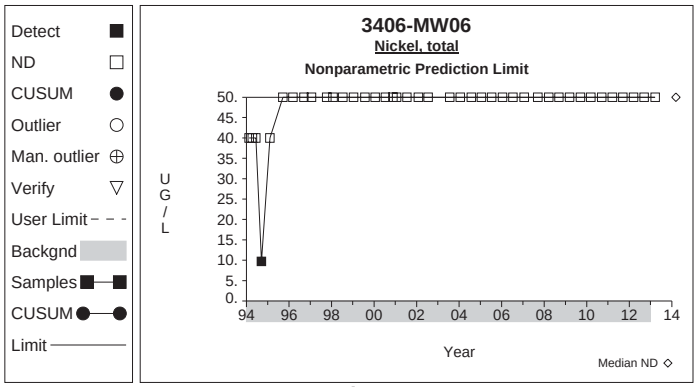


Graph 98

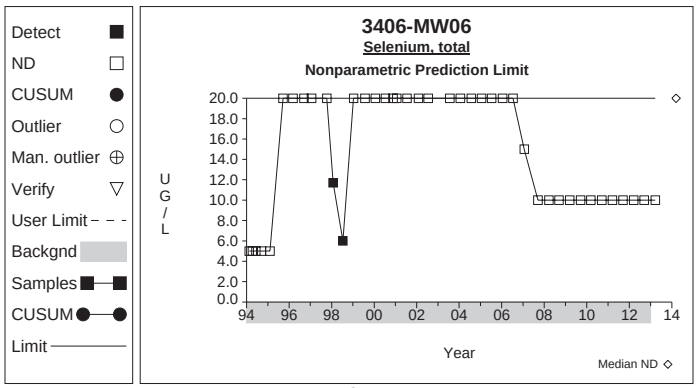
Intra-Well Control Charts



Graph 99



Graph 100



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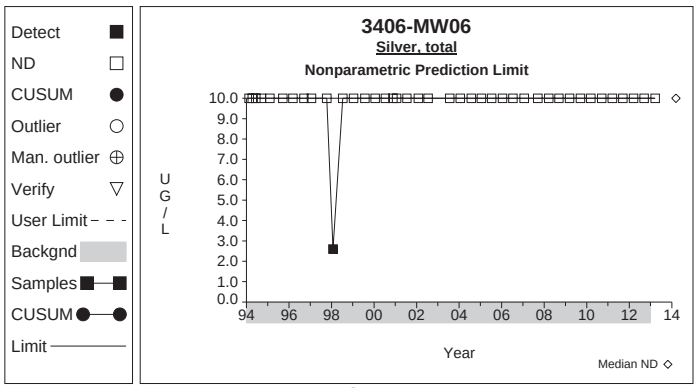
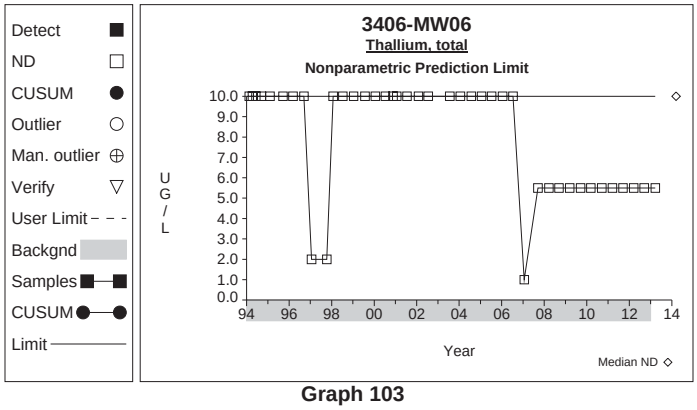
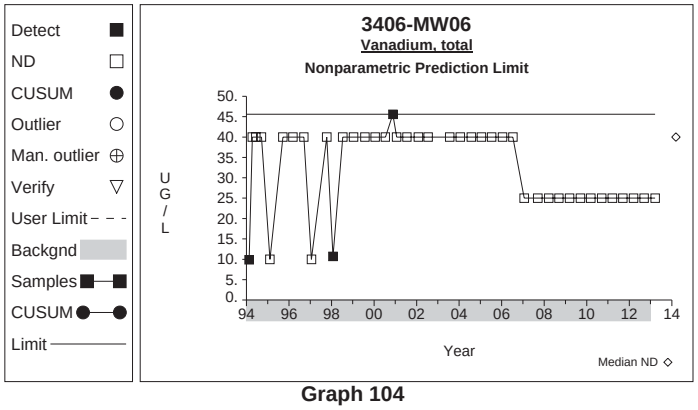


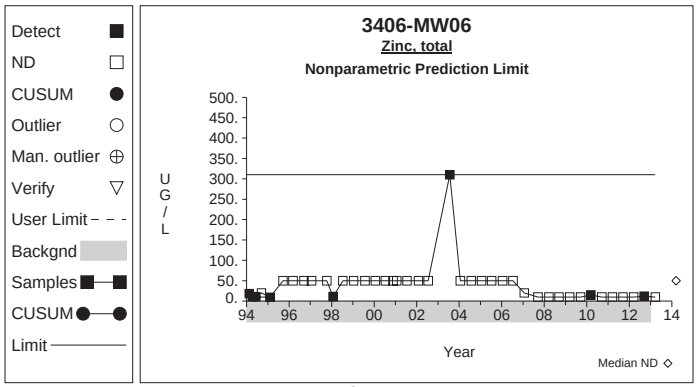
Graph 102



Graph 103

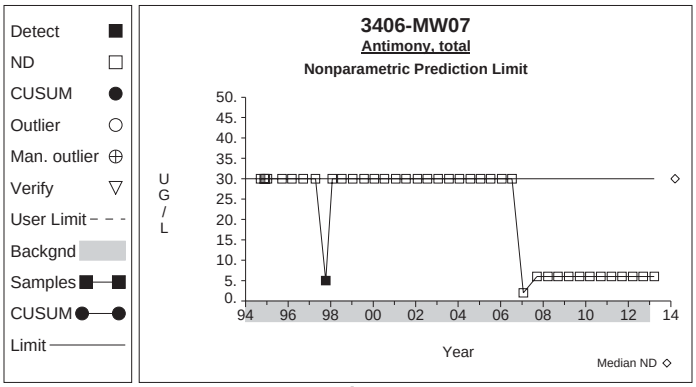


Graph 104

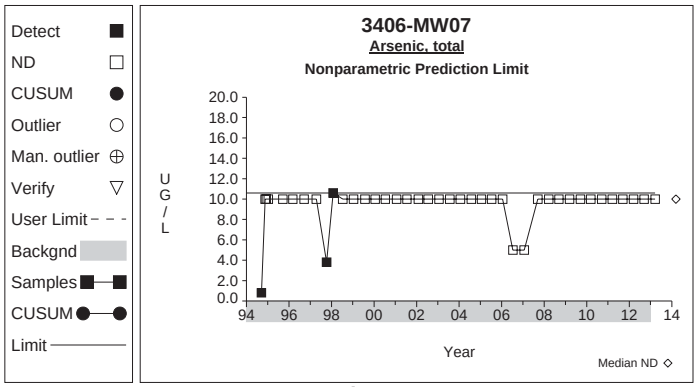


Graph 105

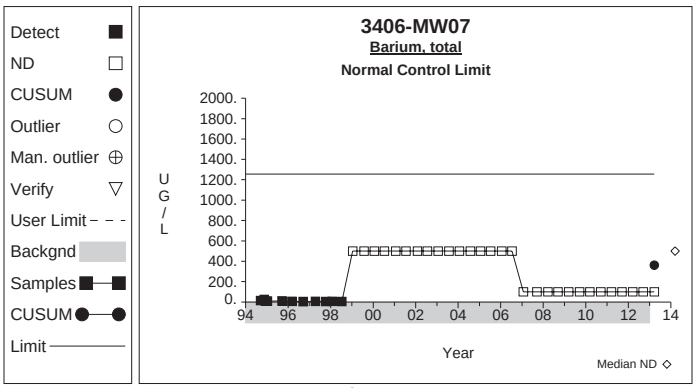
Intra-Well Control Charts



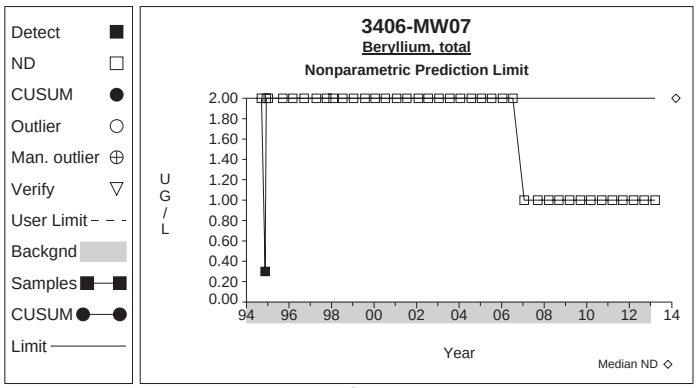
Graph 106



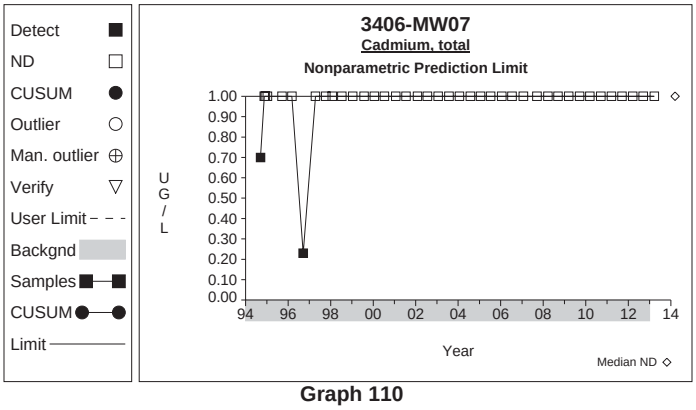
Graph 107



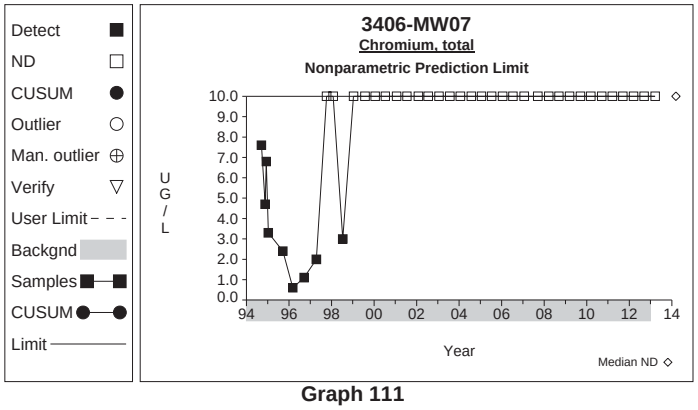
Graph 108



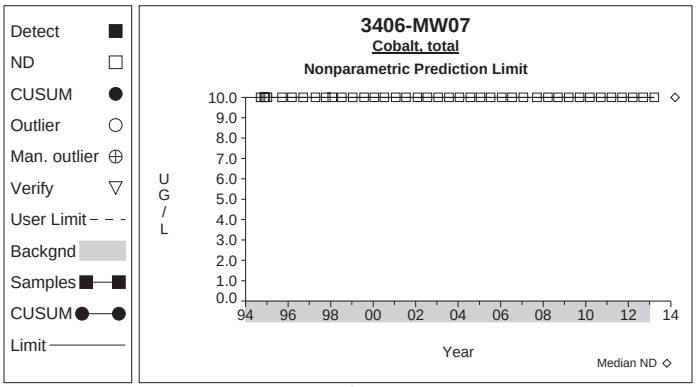
Graph 109



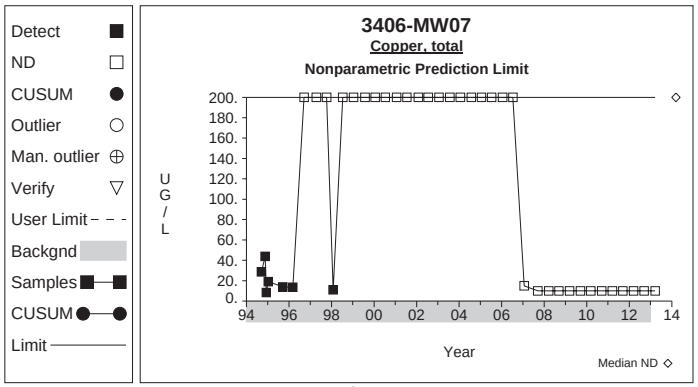
Graph 110



Graph 111

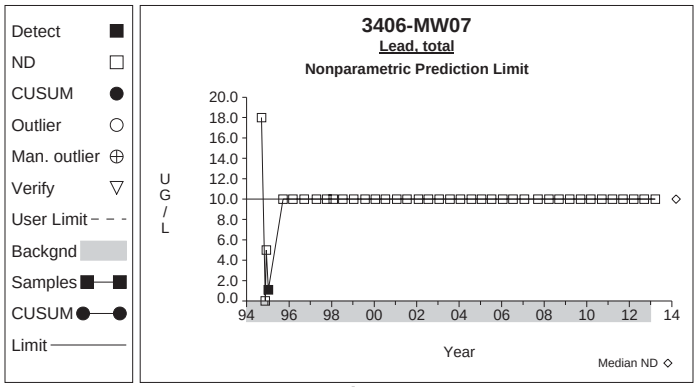


Graph 112

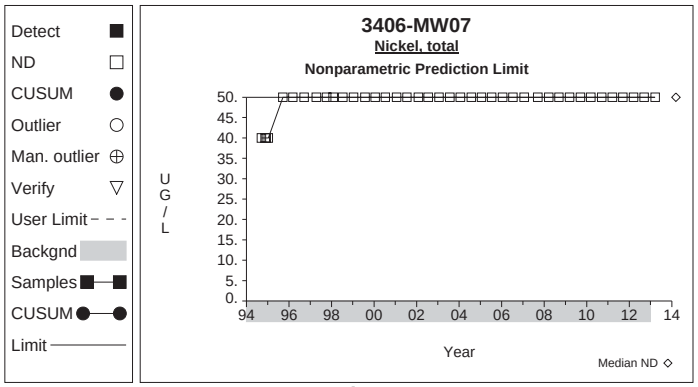


Graph 113

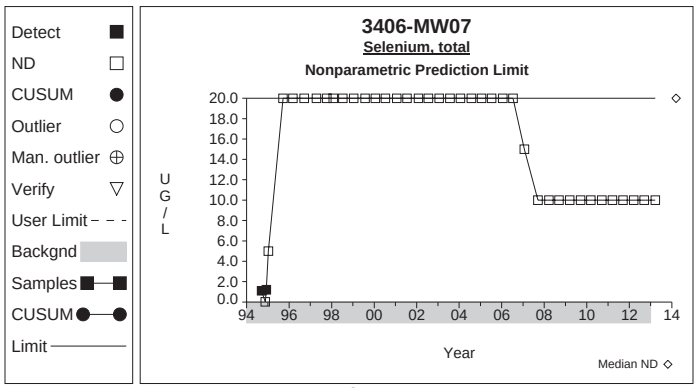
Intra-Well Control Charts



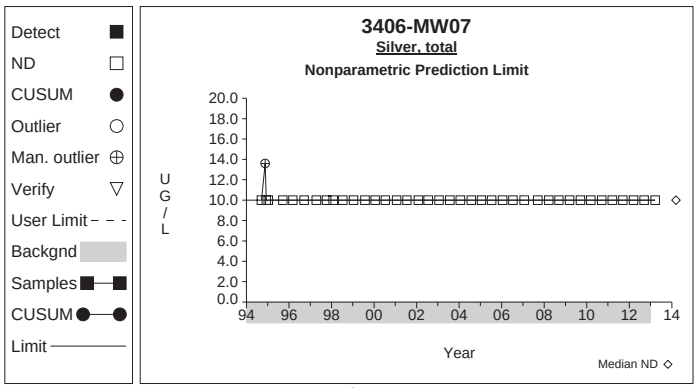
Graph 114



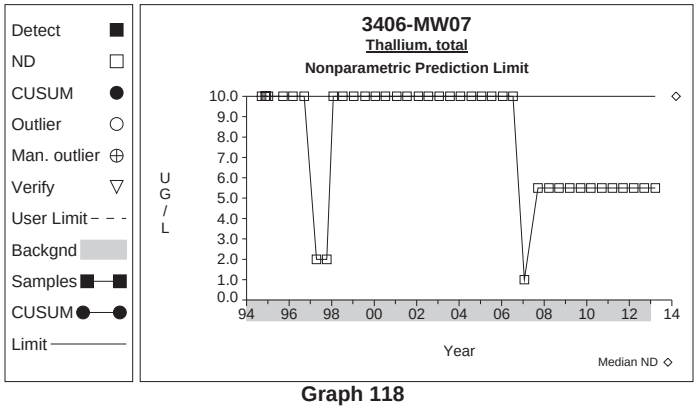
Graph 115



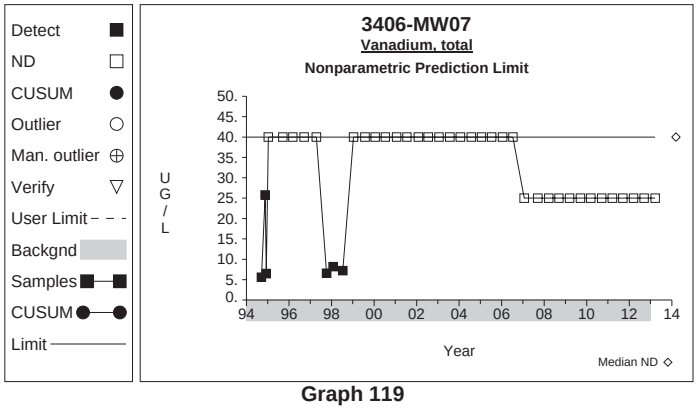
Graph 116



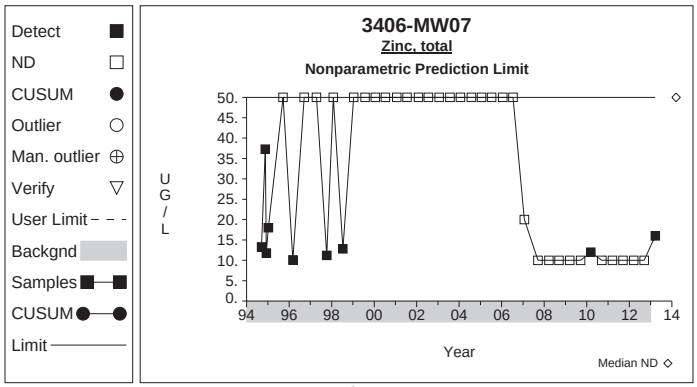
Graph 117



Graph 118

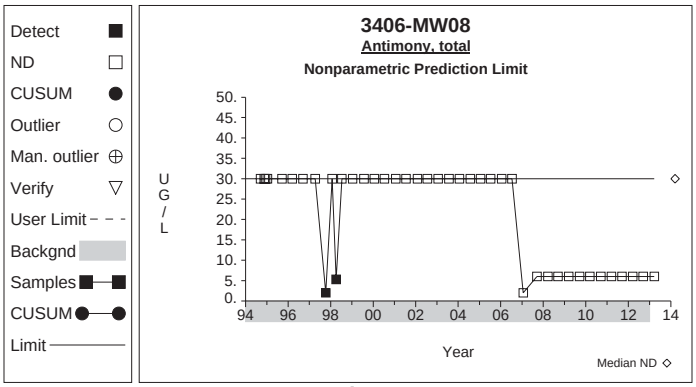


Graph 119

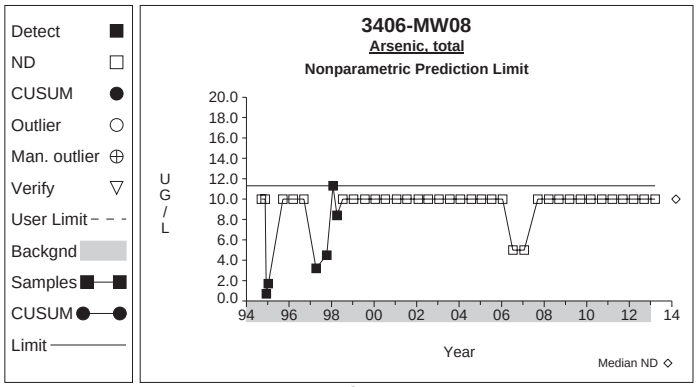


Graph 120

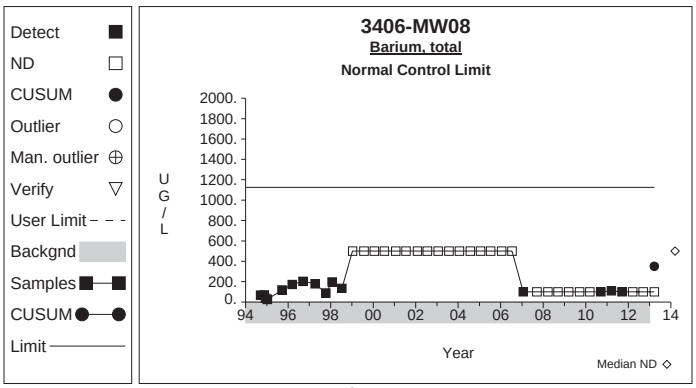
Intra-Well Control Charts



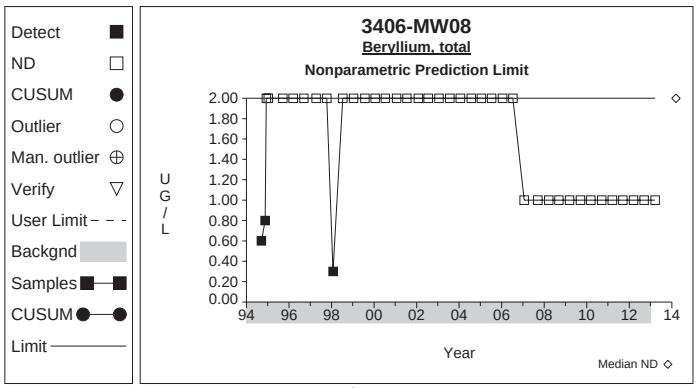
Graph 121



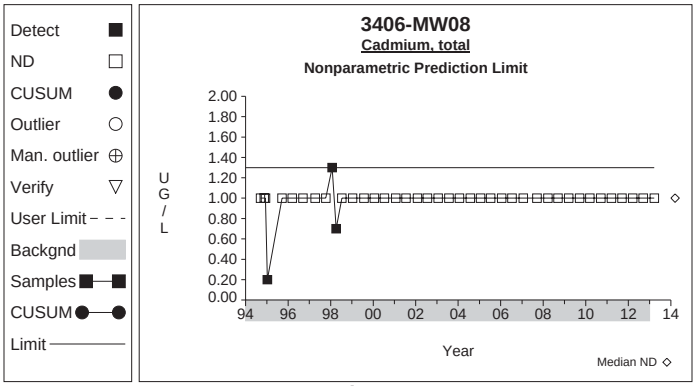
Graph 122



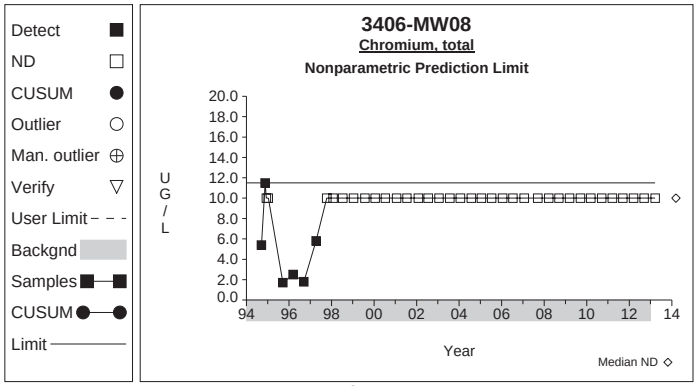
Graph 123



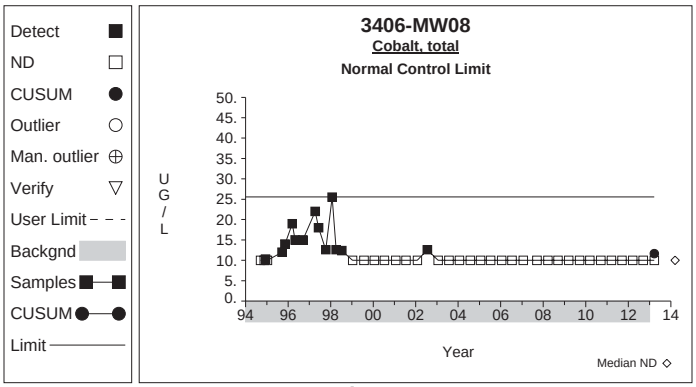
Graph 124



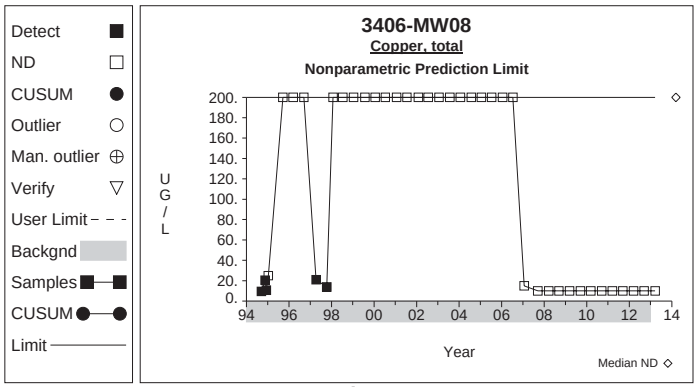
Graph 125



Graph 126

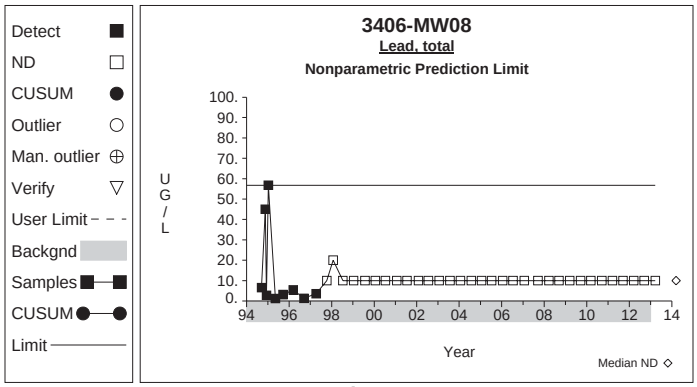


Graph 127

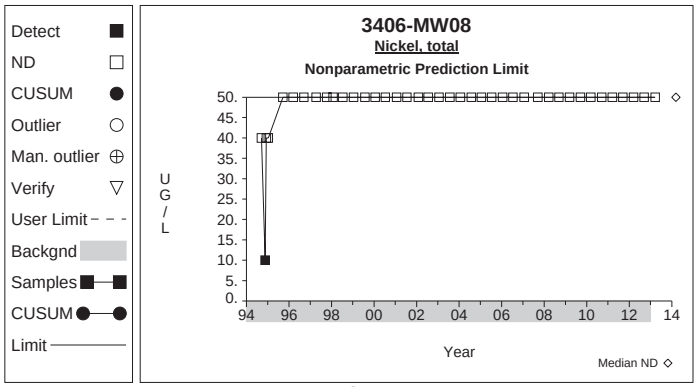


Graph 128

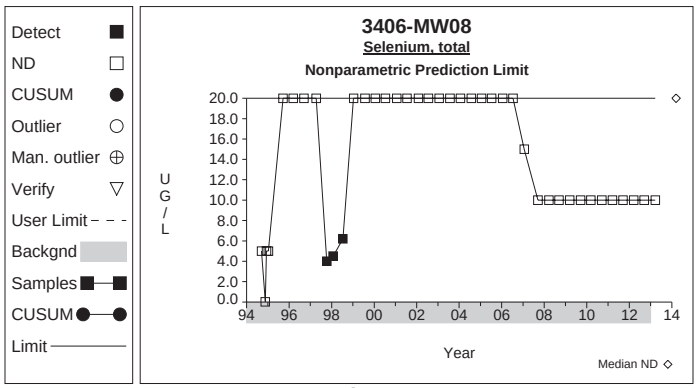
Intra-Well Control Charts



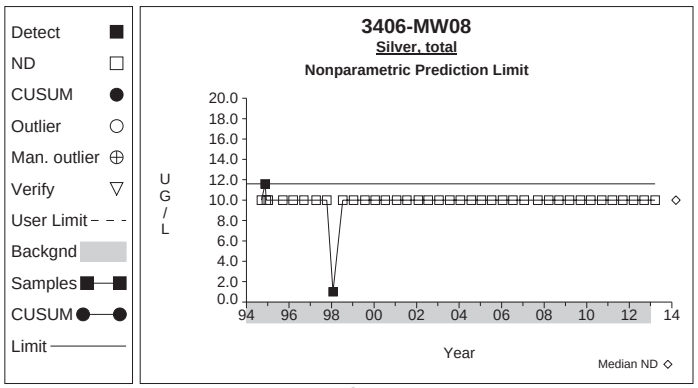
Graph 129



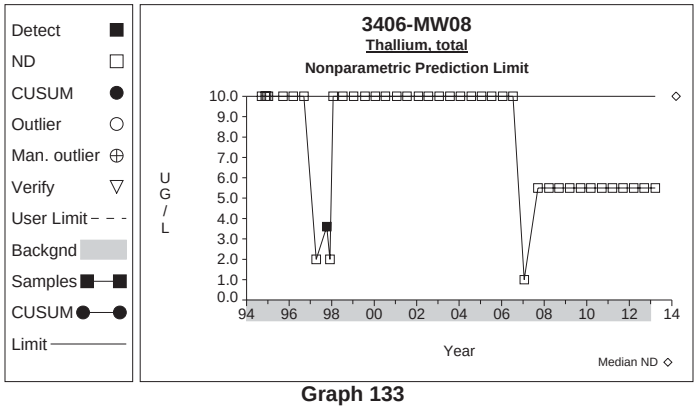
Graph 130



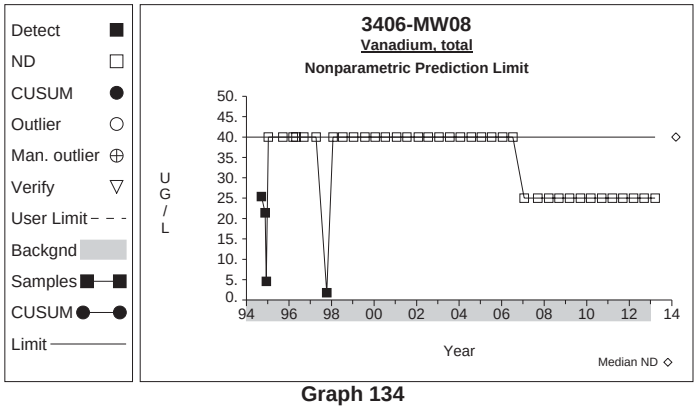
Graph 131



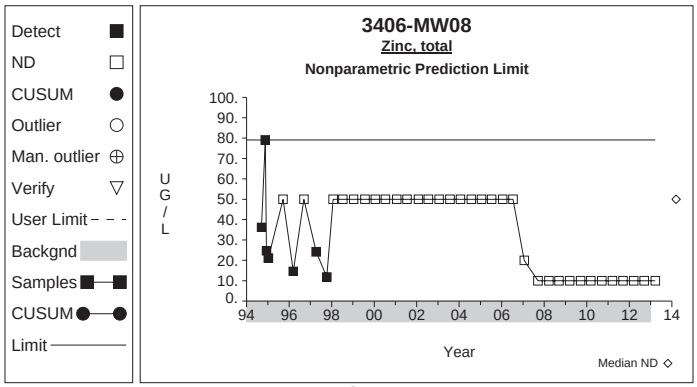
Graph 132



Graph 133

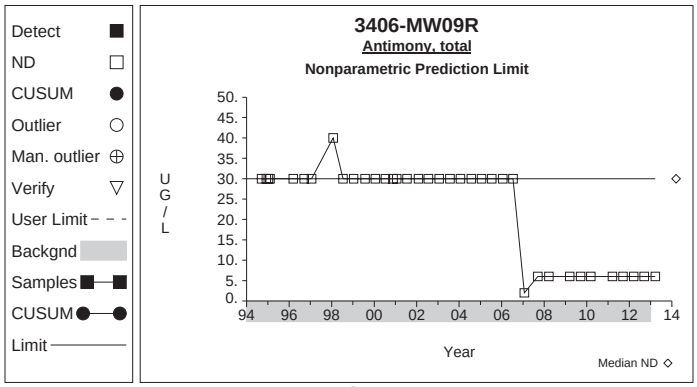


Graph 134

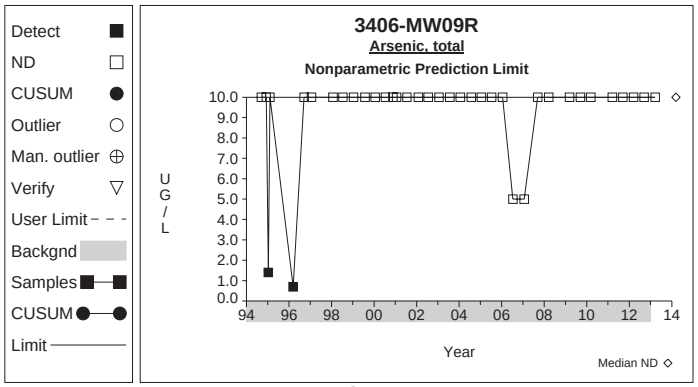


Graph 135

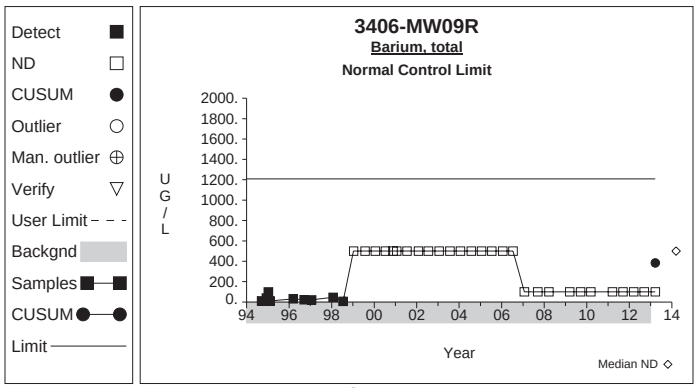
Intra-Well Control Charts



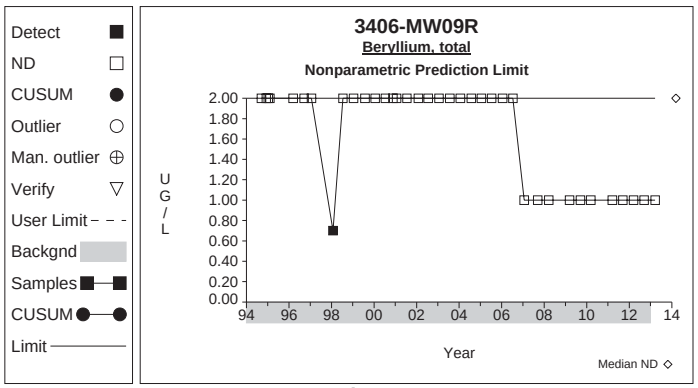
Graph 136



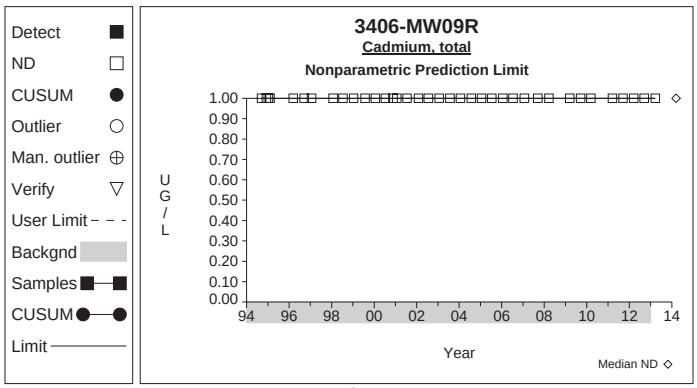
Graph 137



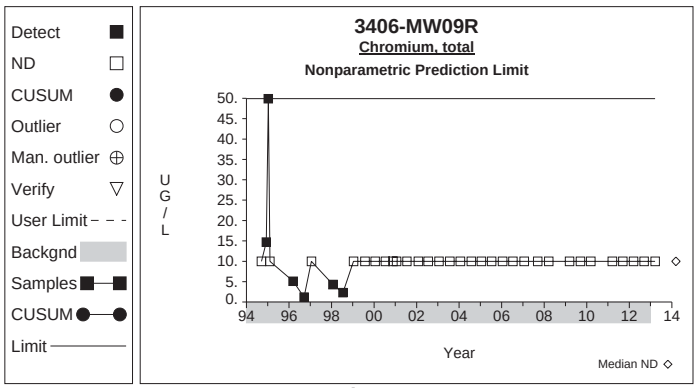
Graph 138



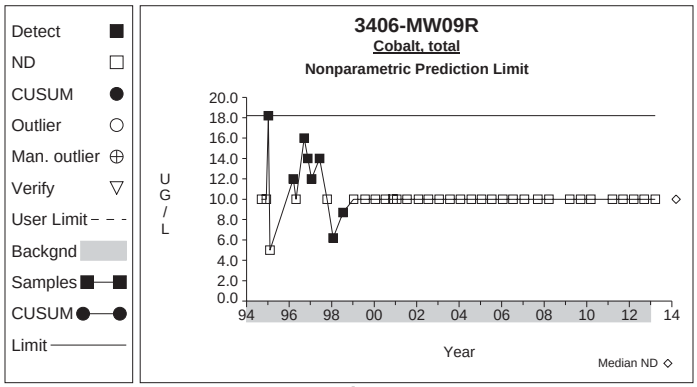
Graph 139



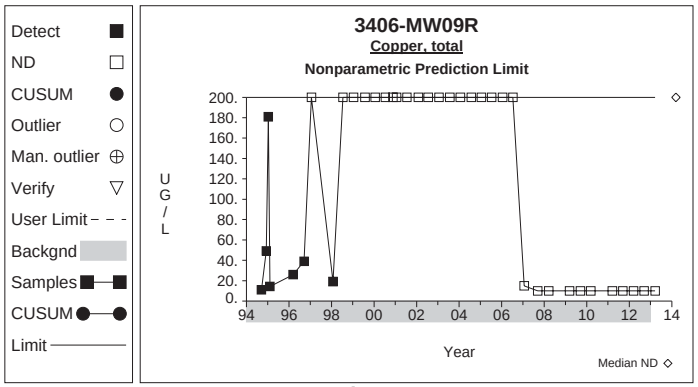
Graph 140



Graph 141

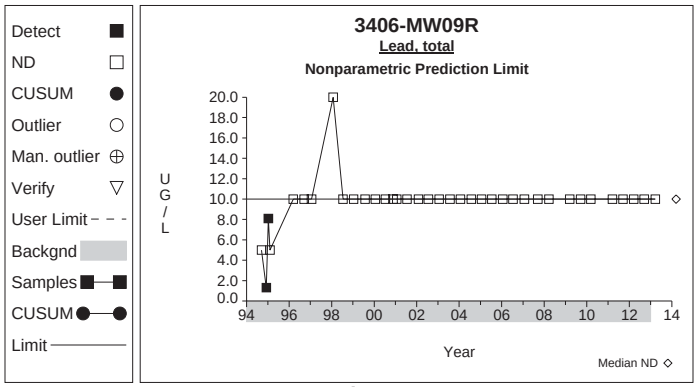


Graph 142

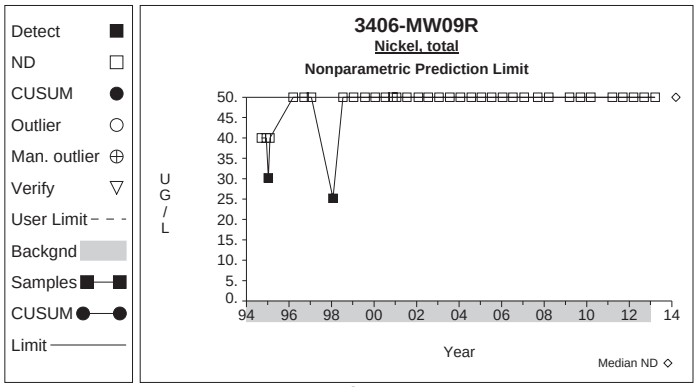


Graph 143

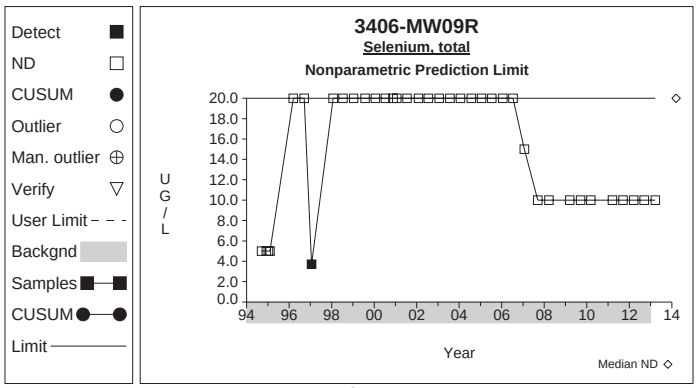
Intra-Well Control Charts



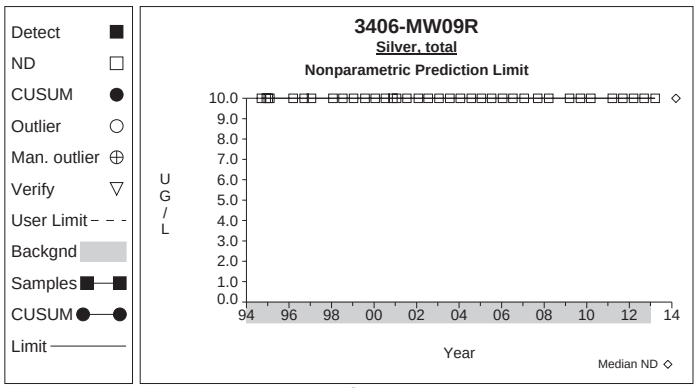
Graph 144



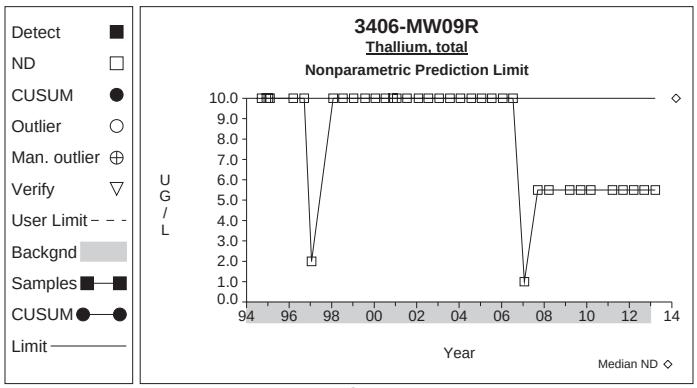
Graph 145



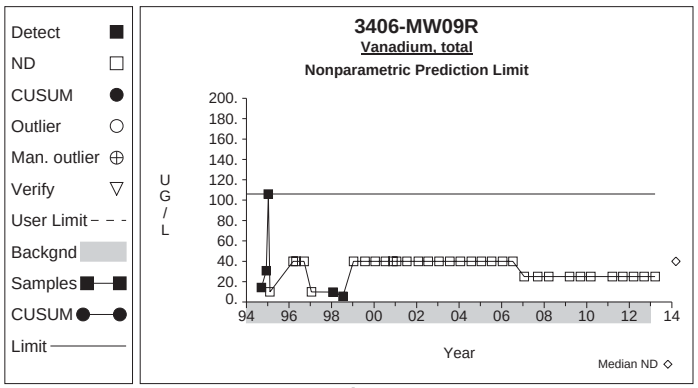
Graph 146



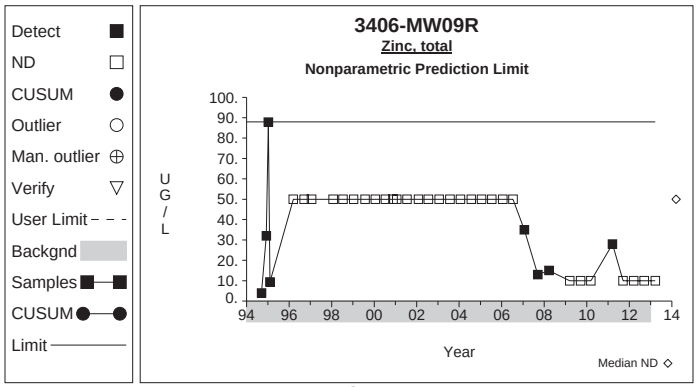
Graph 147



Graph 148

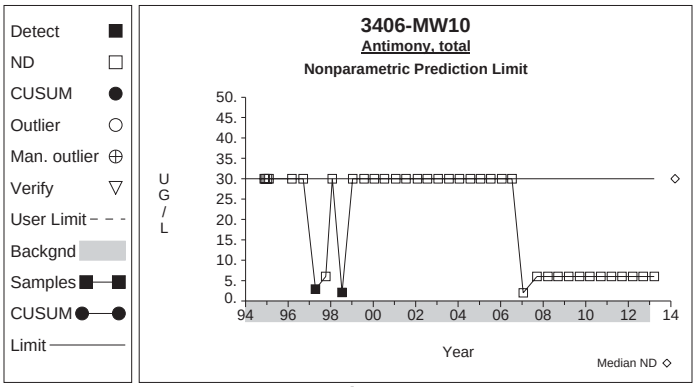


Graph 149

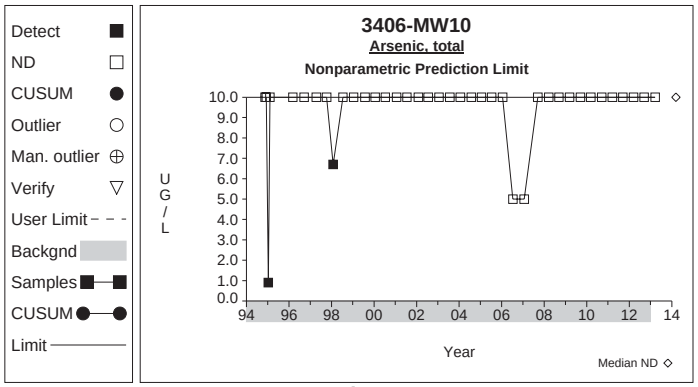


Graph 150

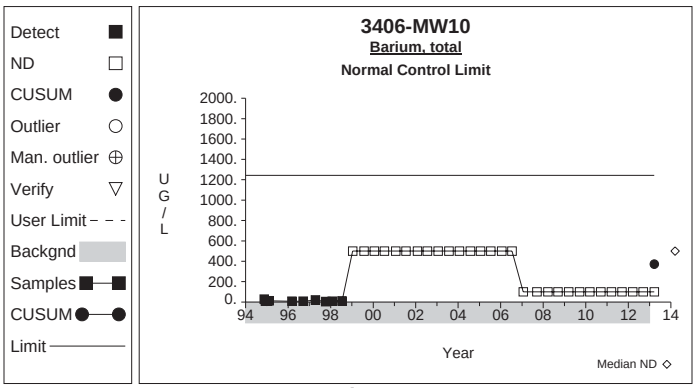
Intra-Well Control Charts



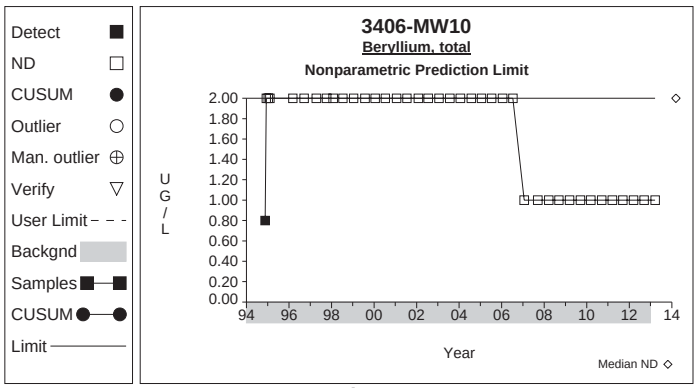
Graph 151



Graph 152



Graph 153



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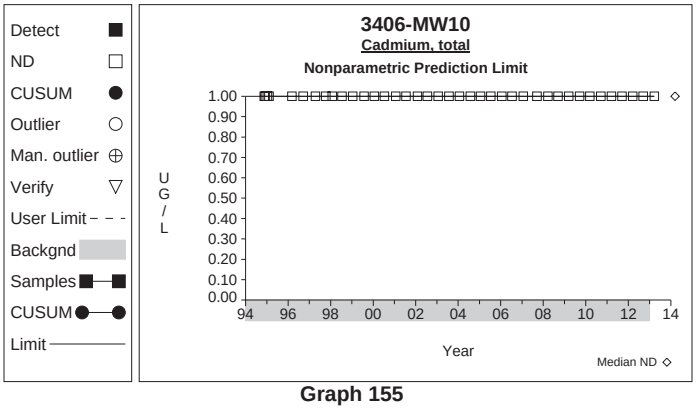
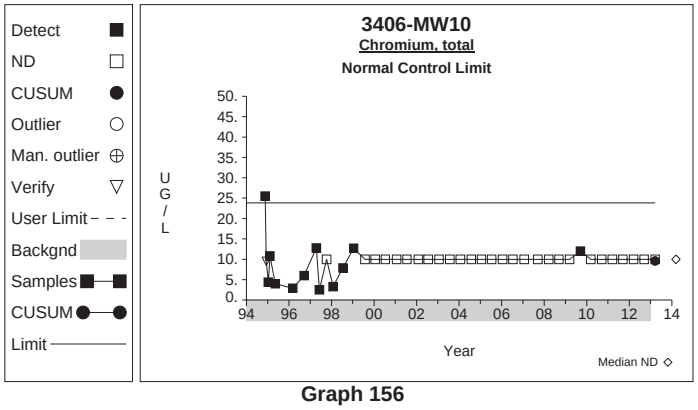
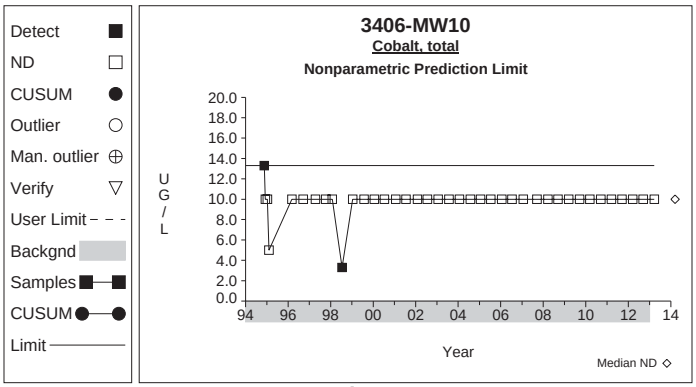


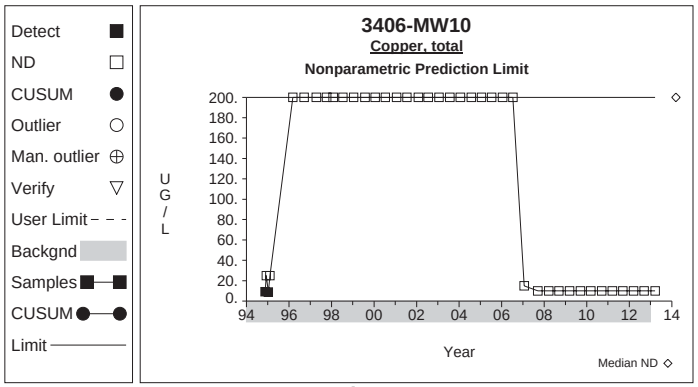
Graph 155



Graph 156

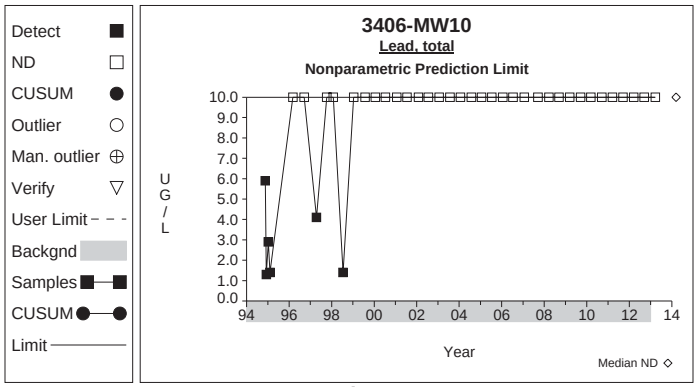


Graph 157

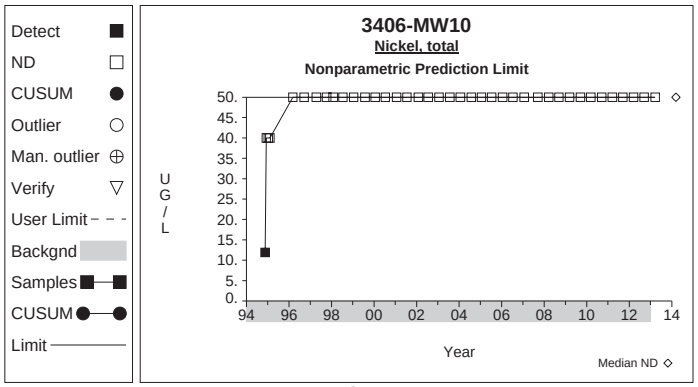


Graph 158

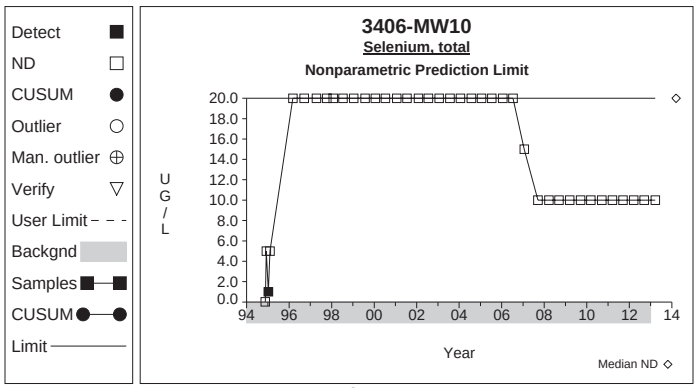
Intra-Well Control Charts



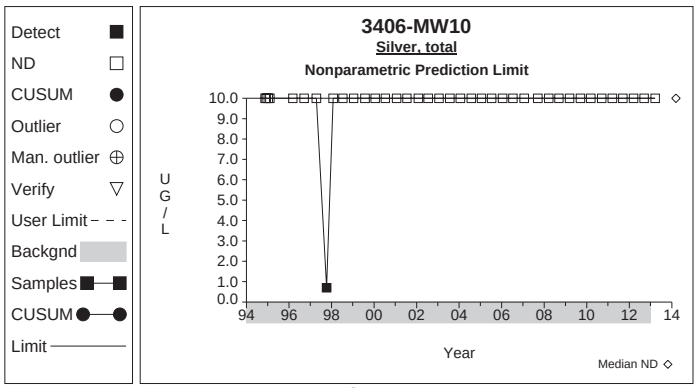
Graph 159



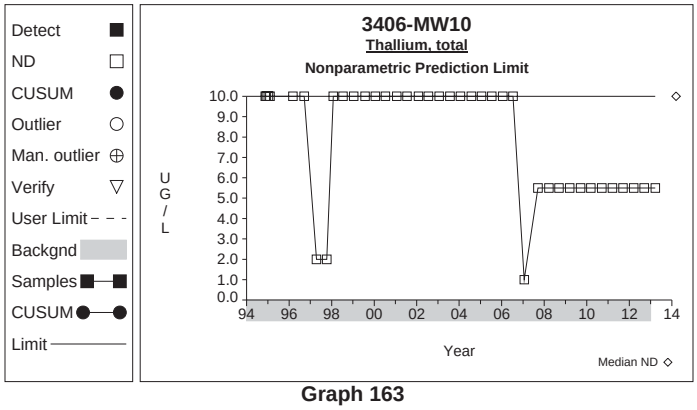
Graph 160



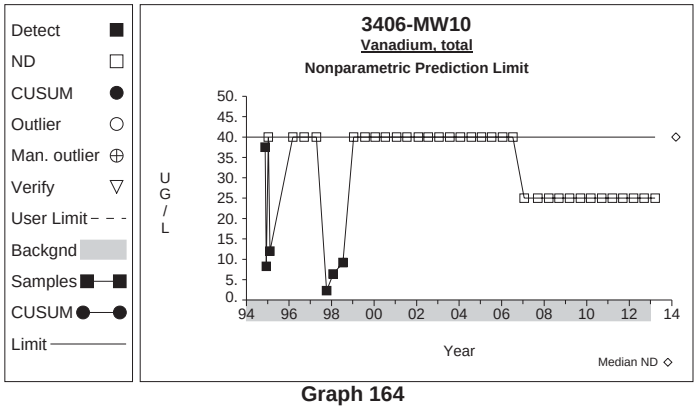
Graph 161



Graph 162



Graph 163



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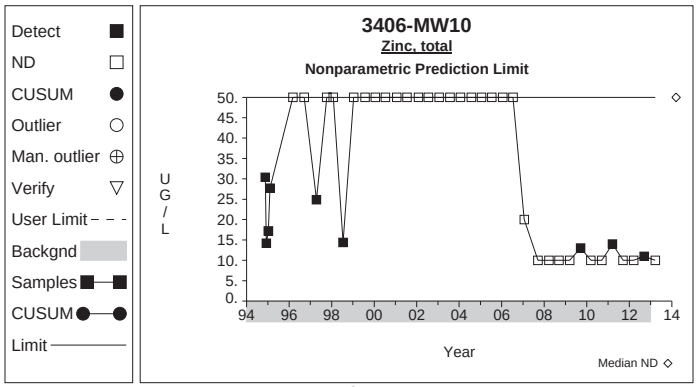
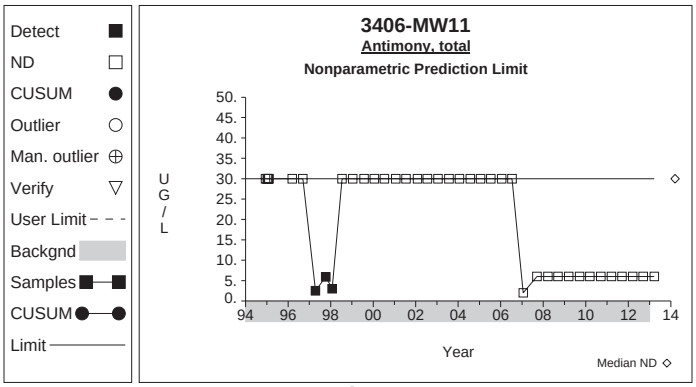
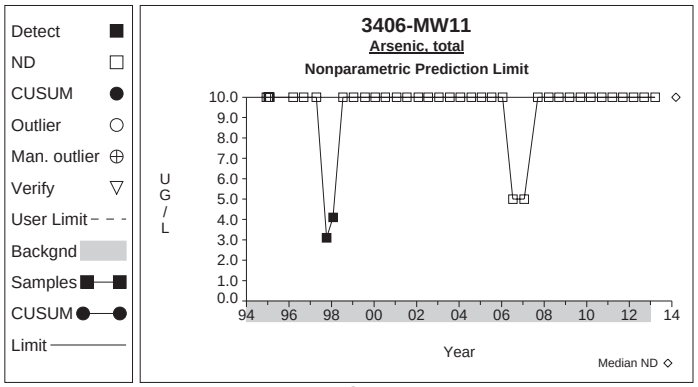


Graph 165

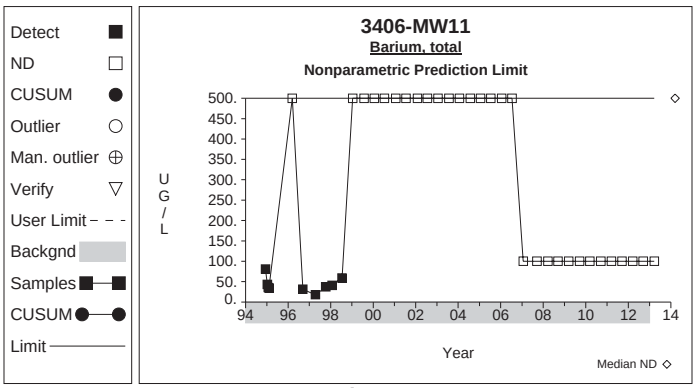
Intra-Well Control Charts



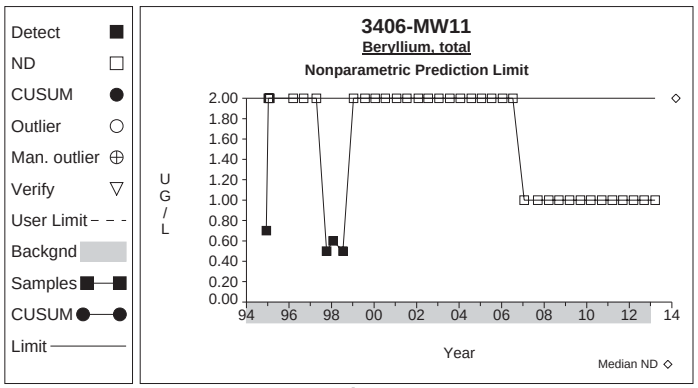
Graph 166



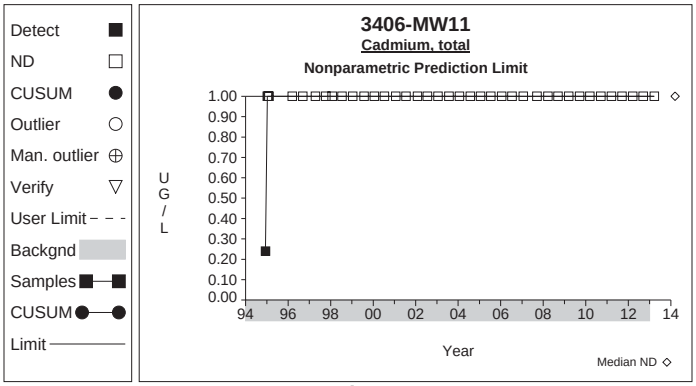
Graph 167



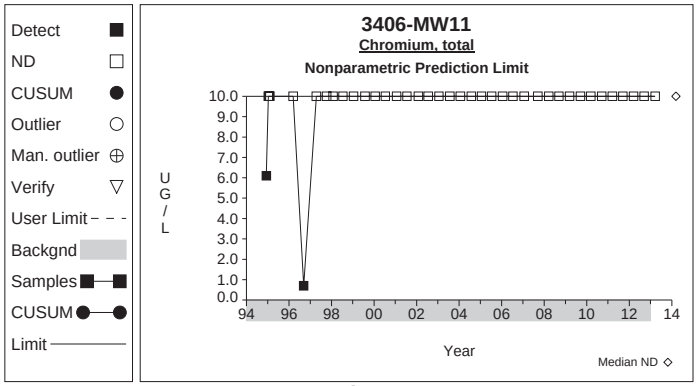
Graph 168



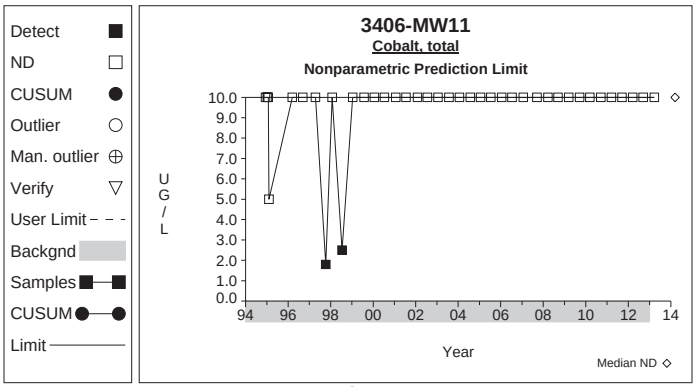
Graph 169



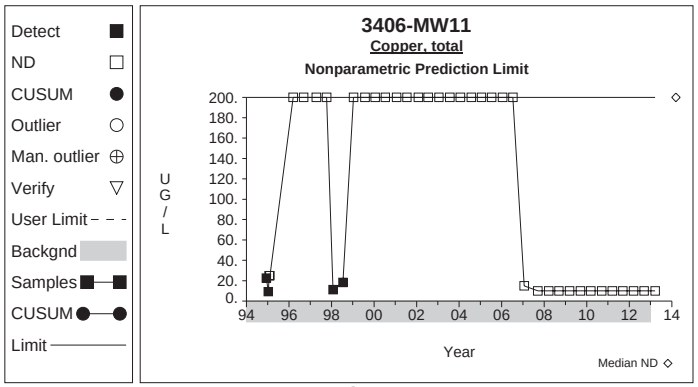
Graph 170



Graph 171

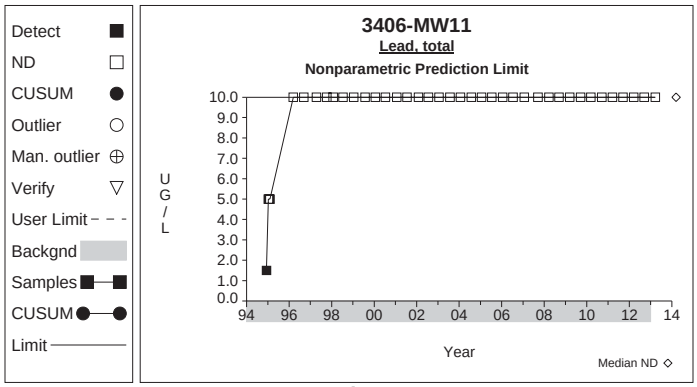


Graph 172

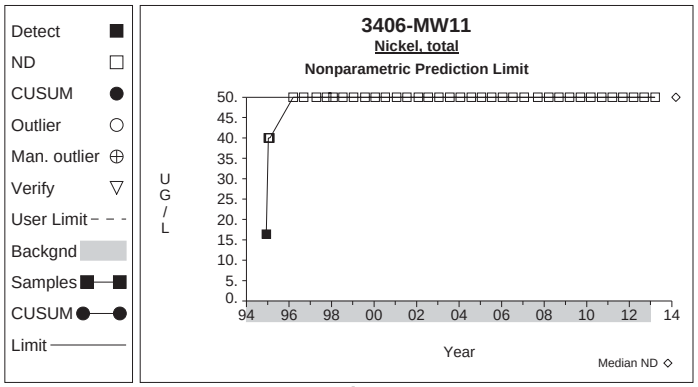


Graph 173

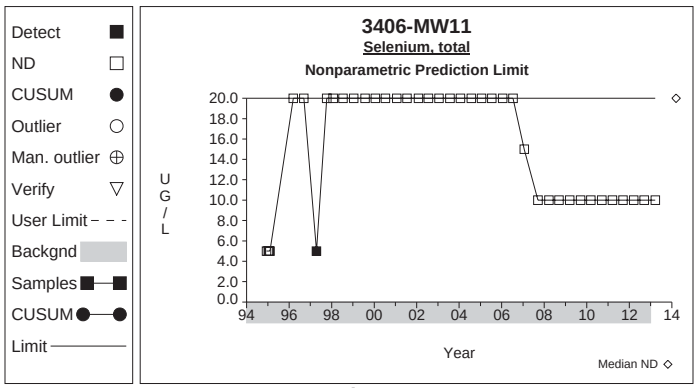
Intra-Well Control Charts



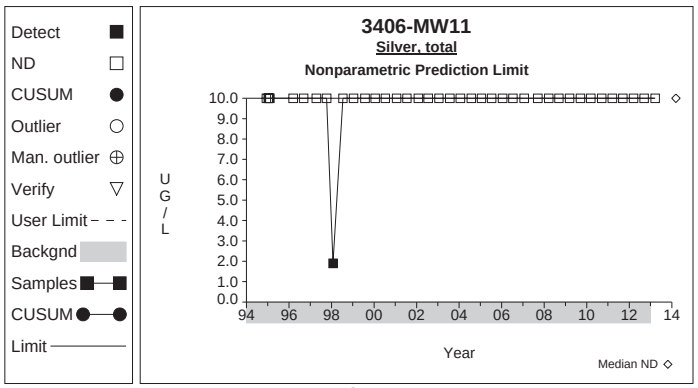
Graph 174



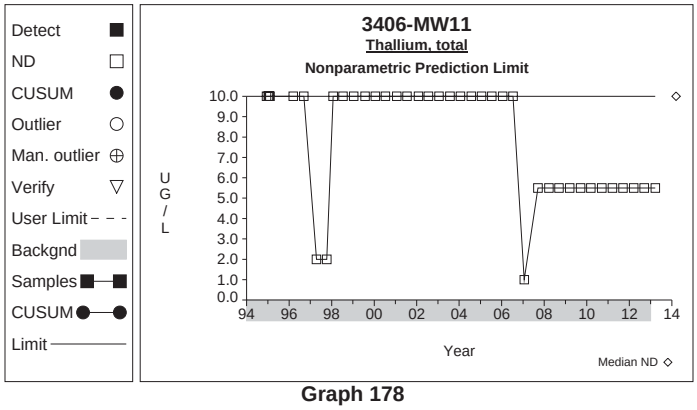
Graph 175



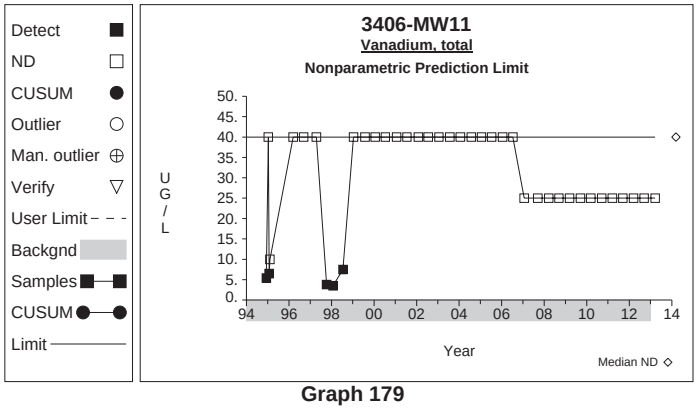
Graph 176



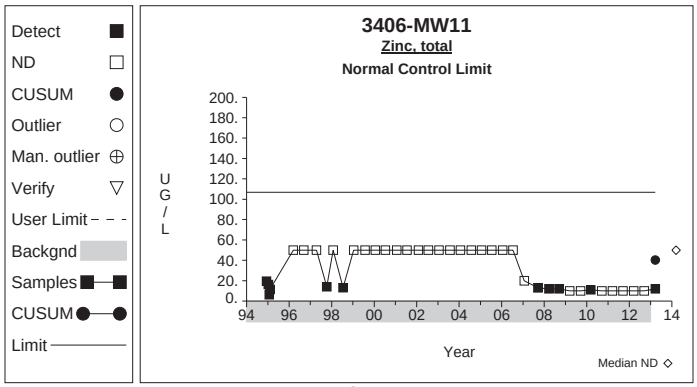
Graph 177



Graph 178

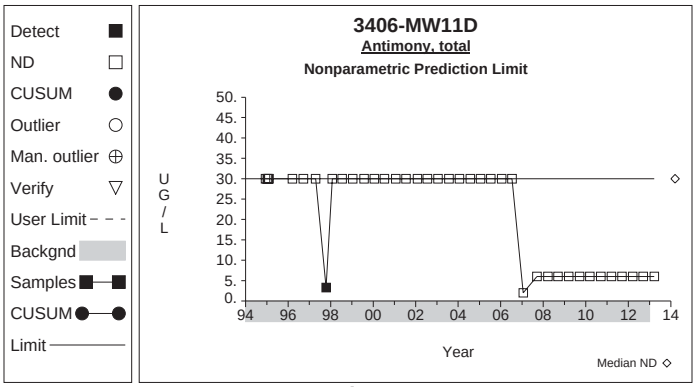


Graph 179

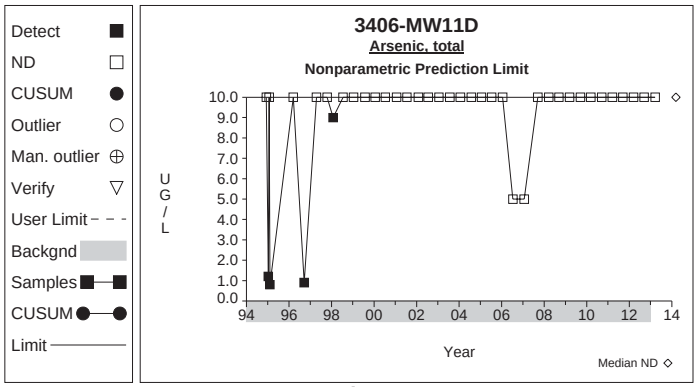


Graph 180

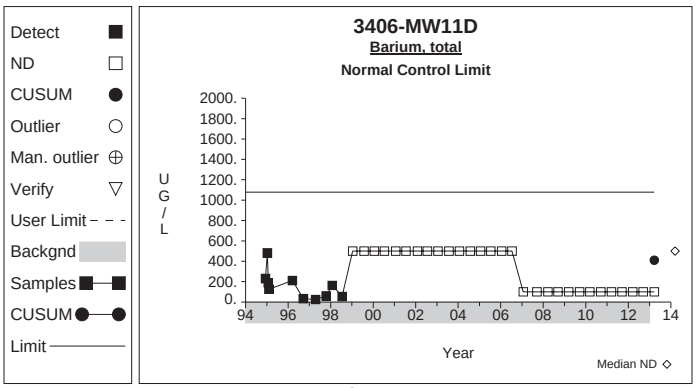
Intra-Well Control Charts



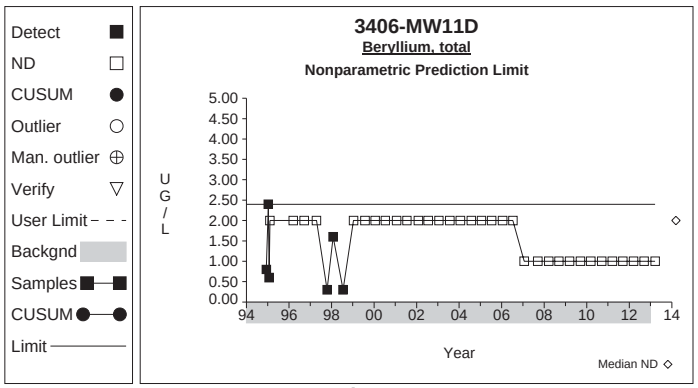
Graph 181



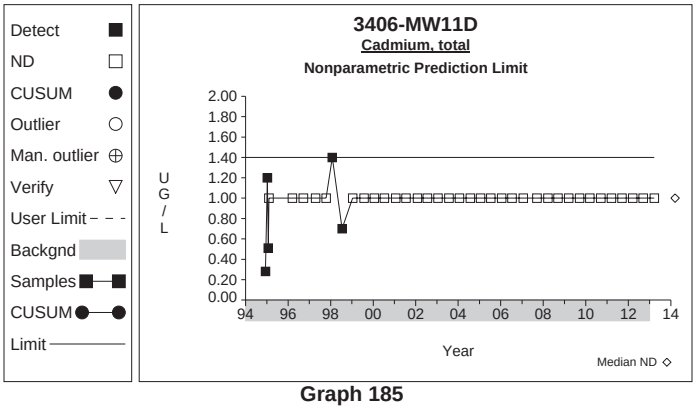
Graph 182



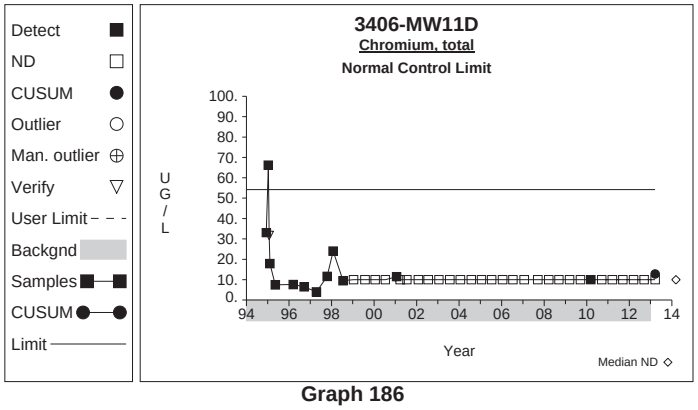
Graph 183



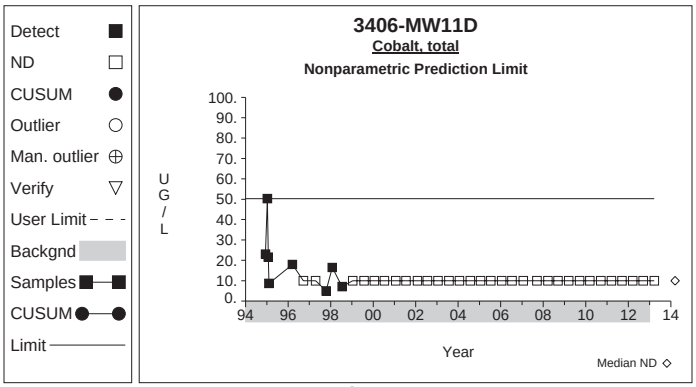
Graph 184



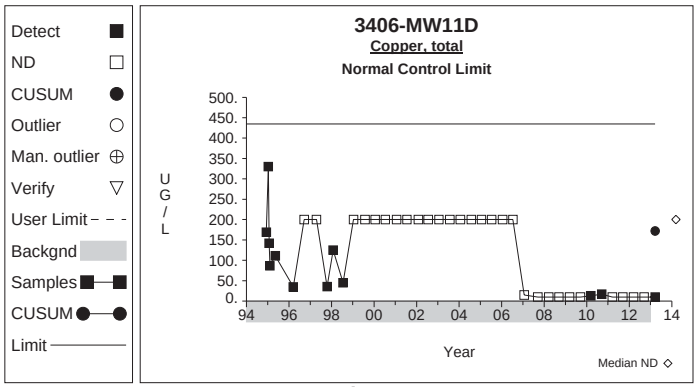
Graph 185



Graph 186

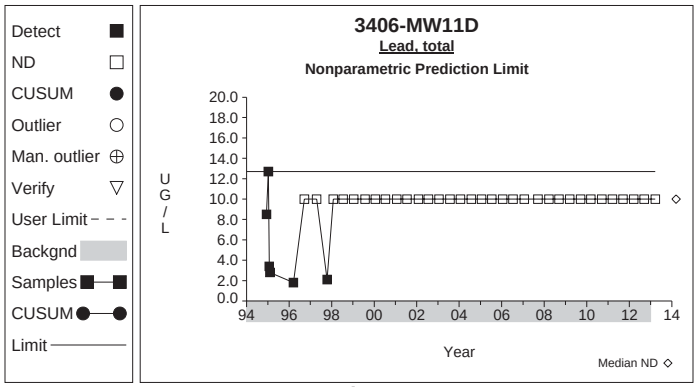


Graph 187

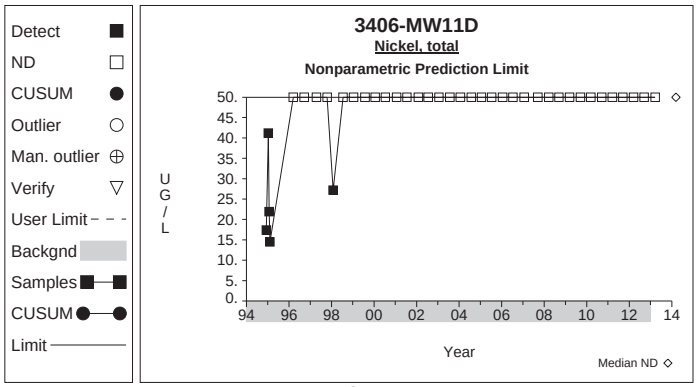


Graph 188

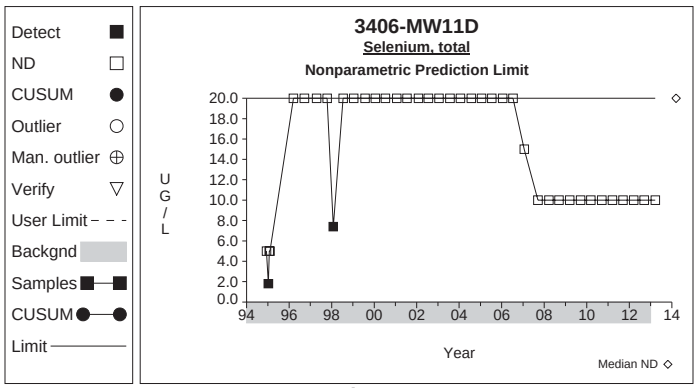
Intra-Well Control Charts



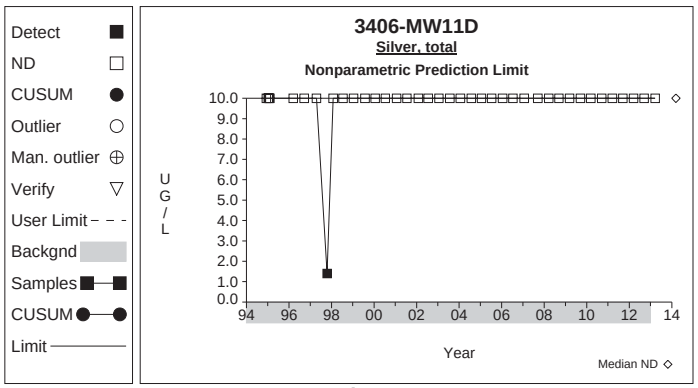
Graph 189



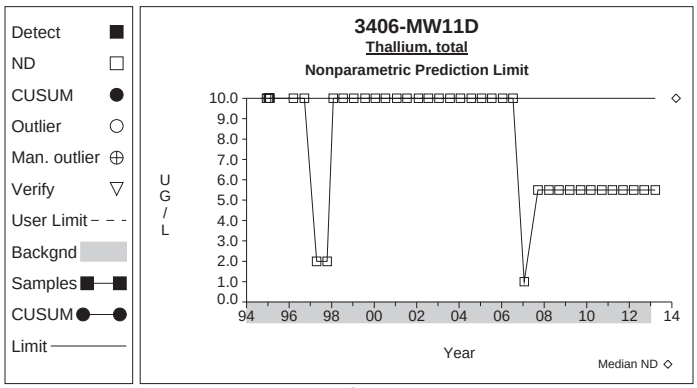
Graph 190



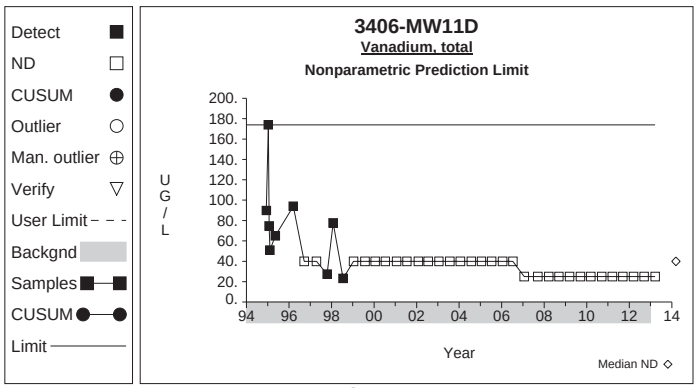
Graph 191



Graph 192



Graph 193



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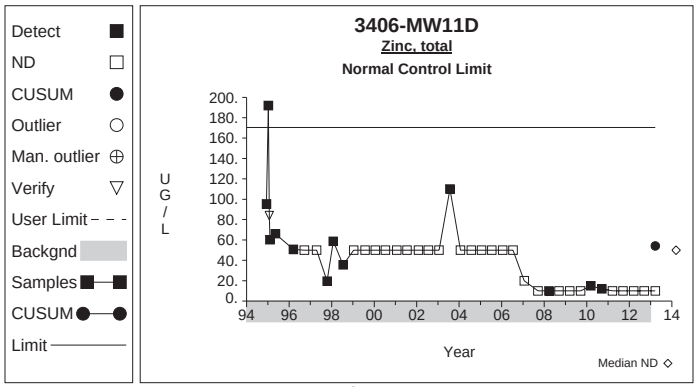
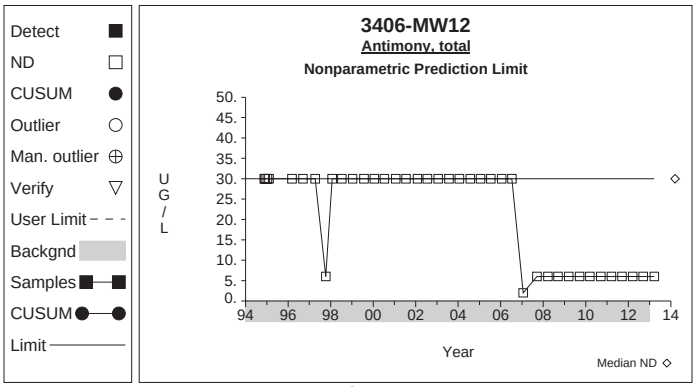
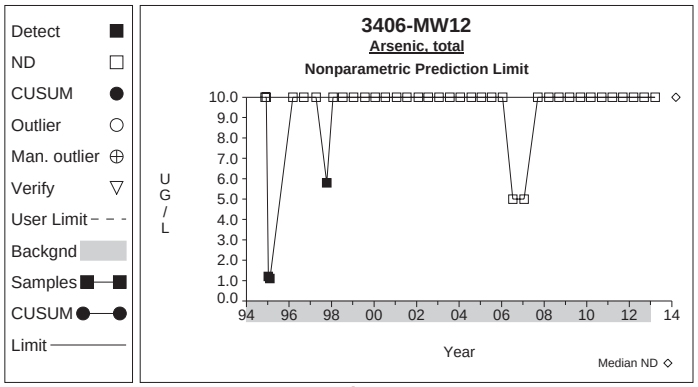


Graph 195

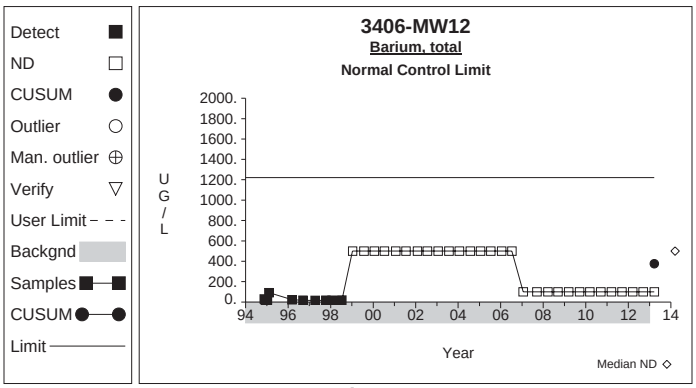
Intra-Well Control Charts



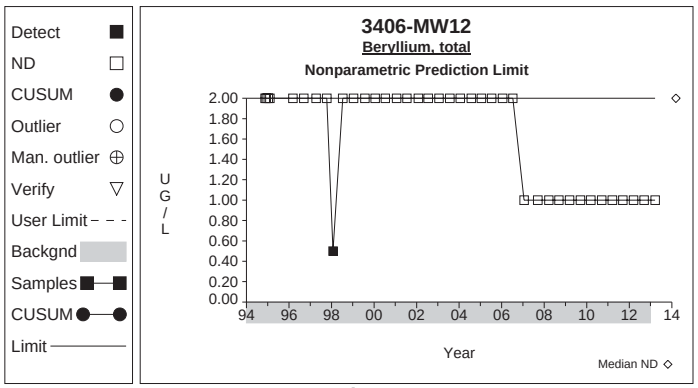
Graph 196



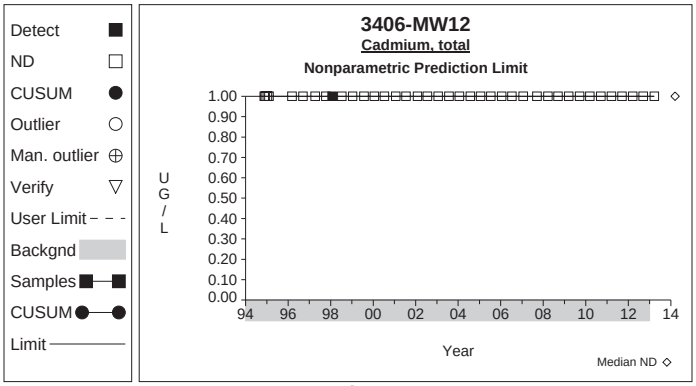
Graph 197



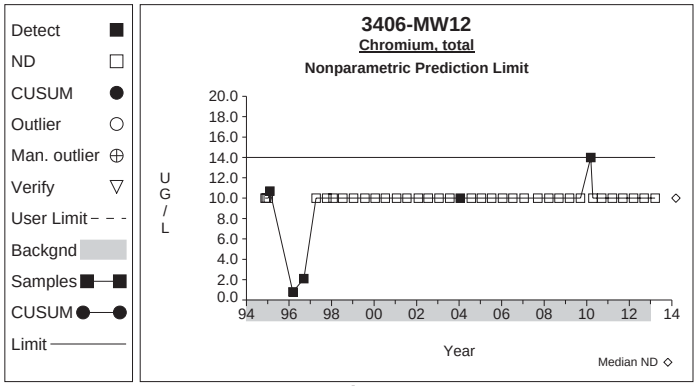
Graph 198



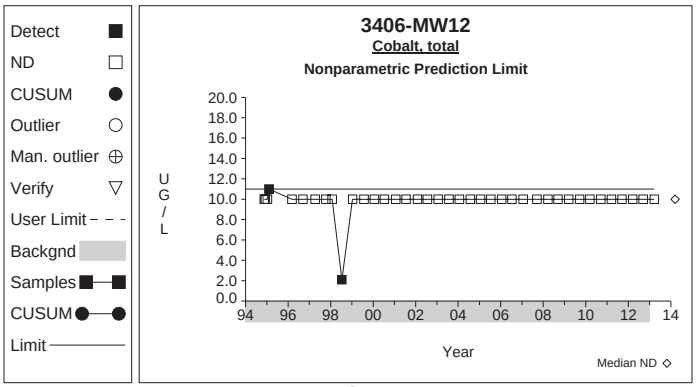
Graph 199



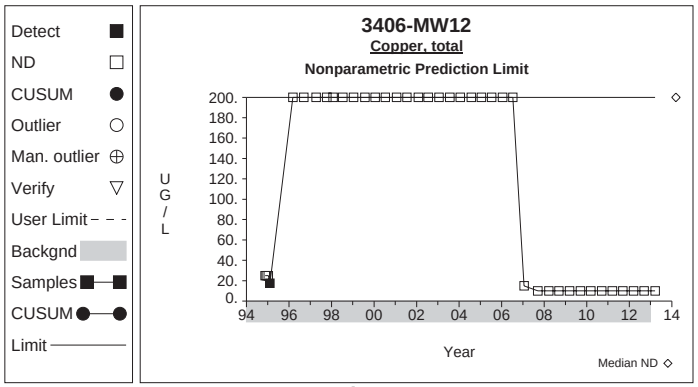
Graph 200



Graph 201

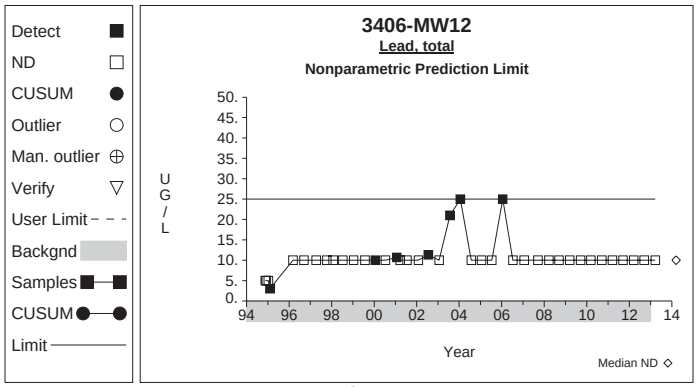


Graph 202

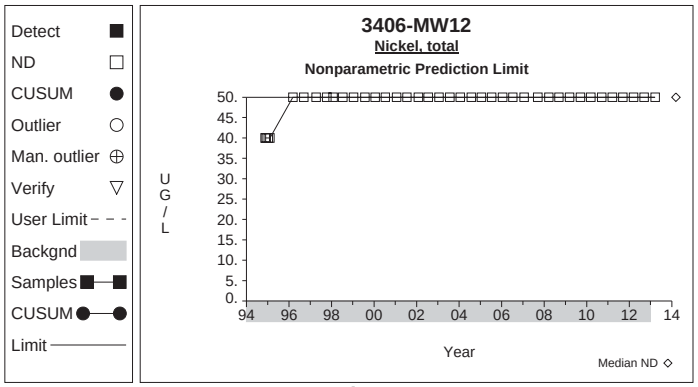


Graph 203

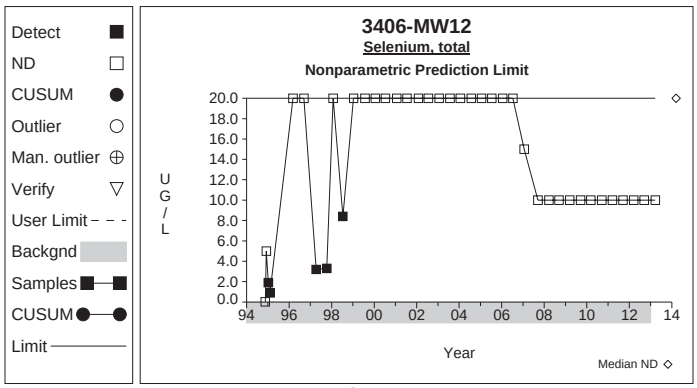
Intra-Well Control Charts



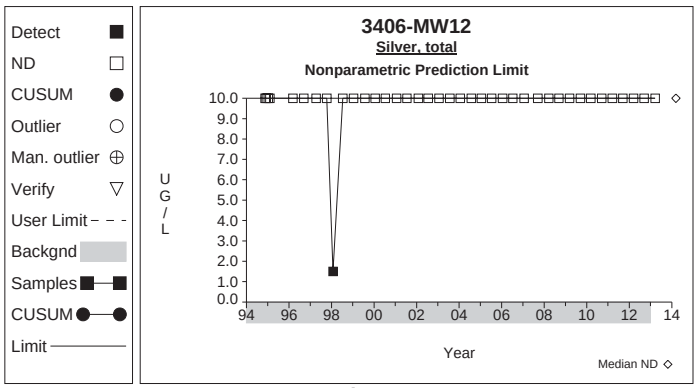
Graph 204



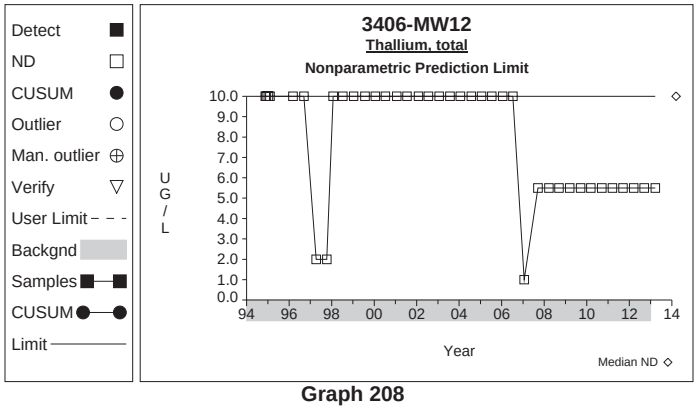
Graph 205



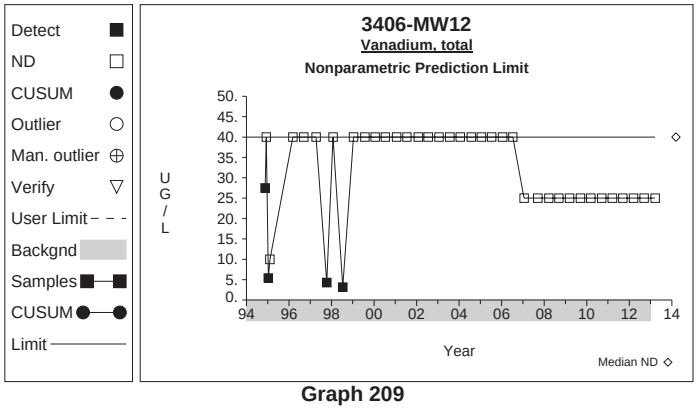
Graph 206



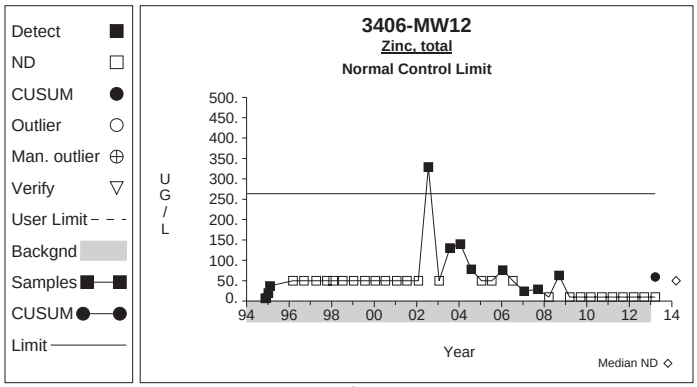
Graph 207



Graph 208

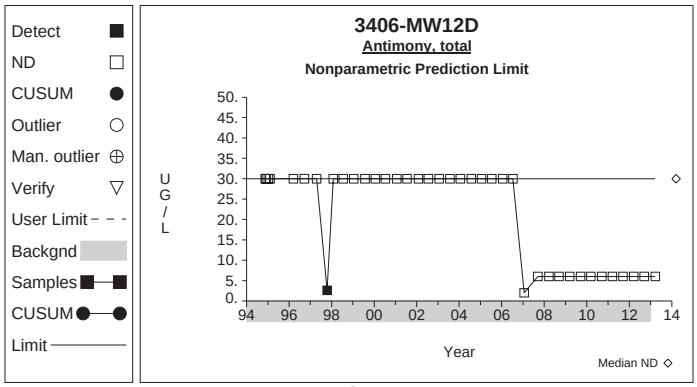


Graph 209

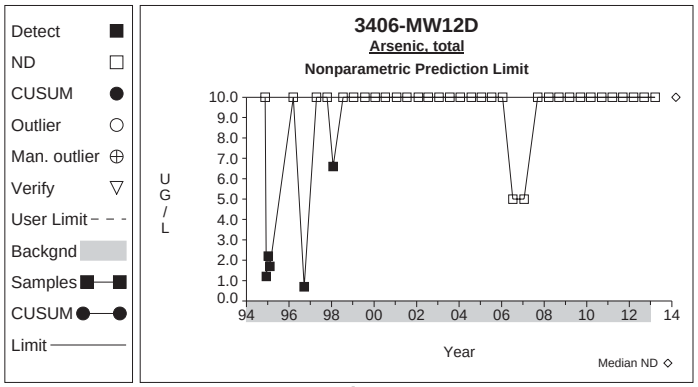


Graph 210

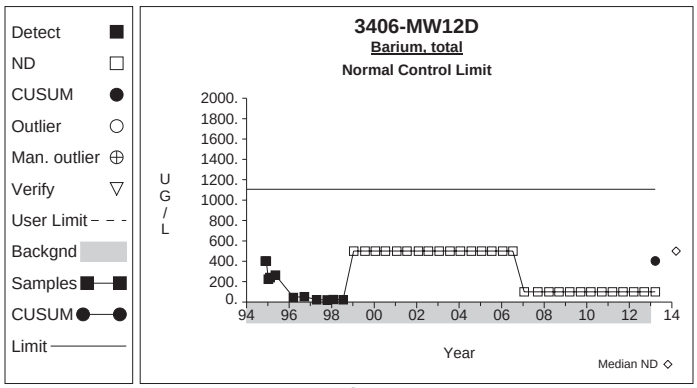
Intra-Well Control Charts



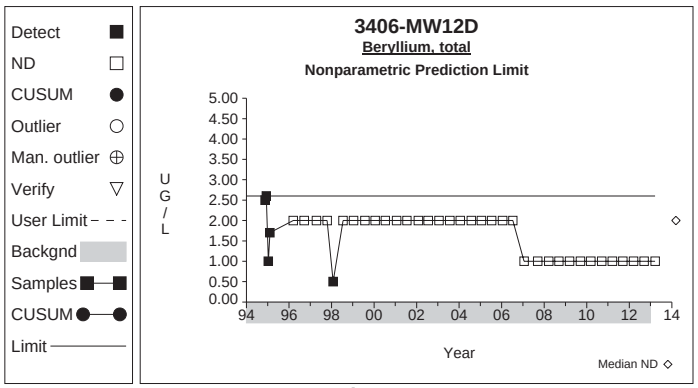
Graph 211



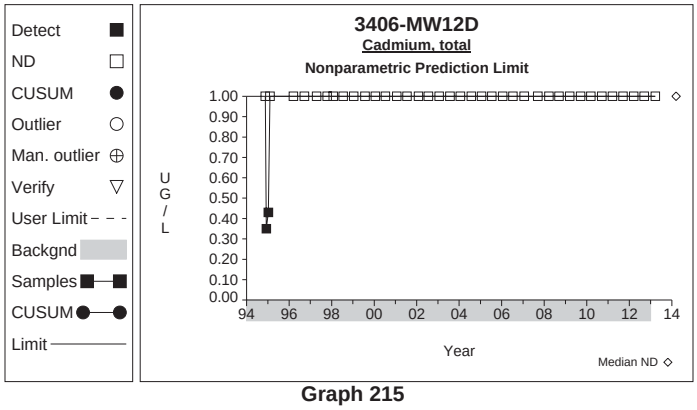
Graph 212



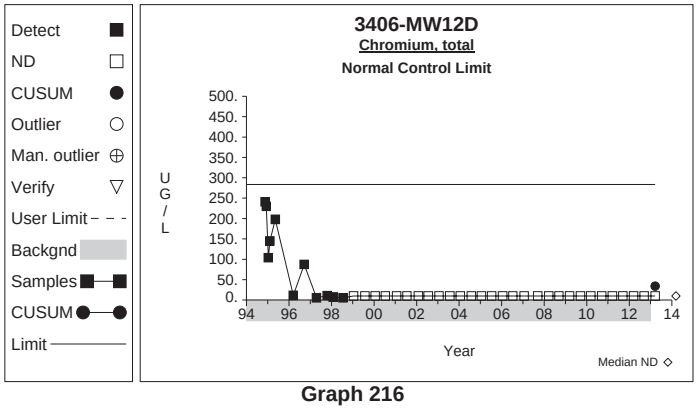
Graph 213



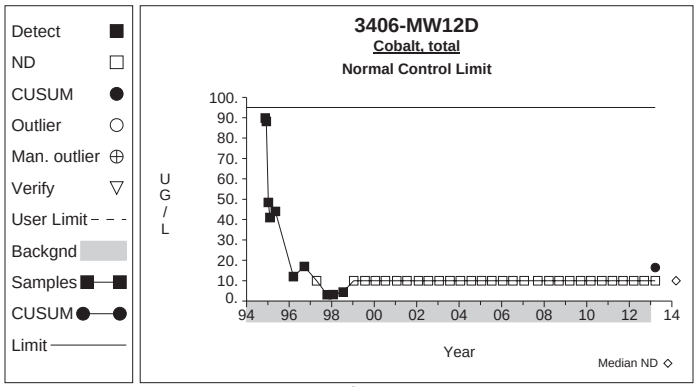
Graph 214



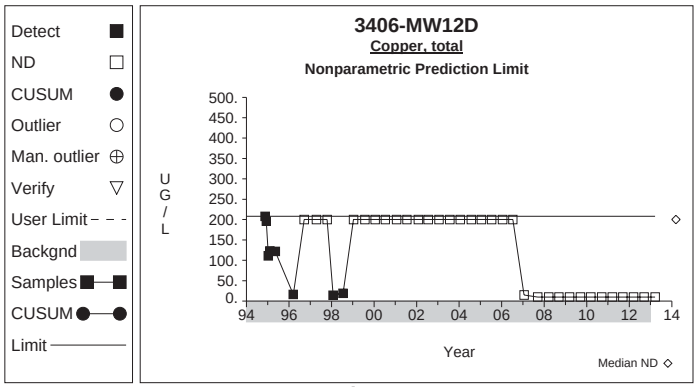
Graph 215



Graph 216

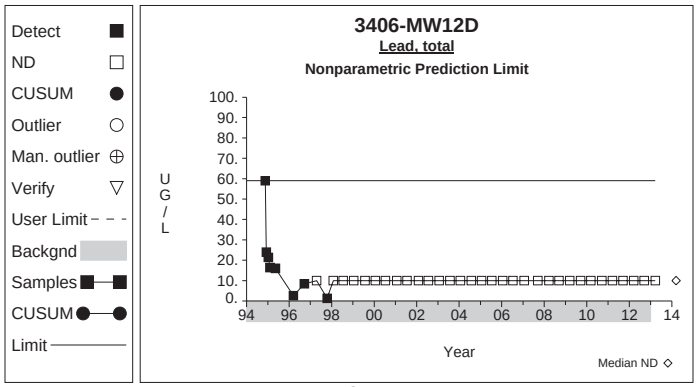


Graph 217

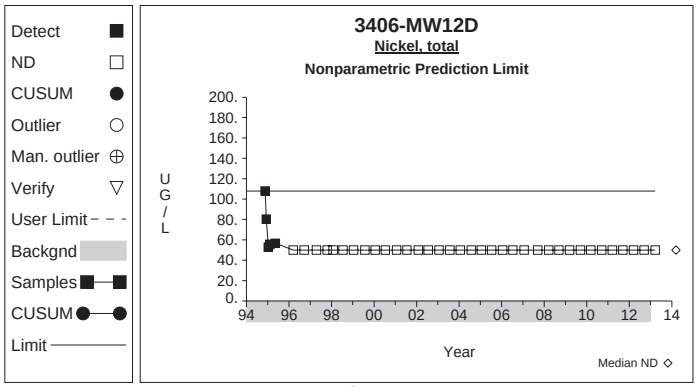


Graph 218

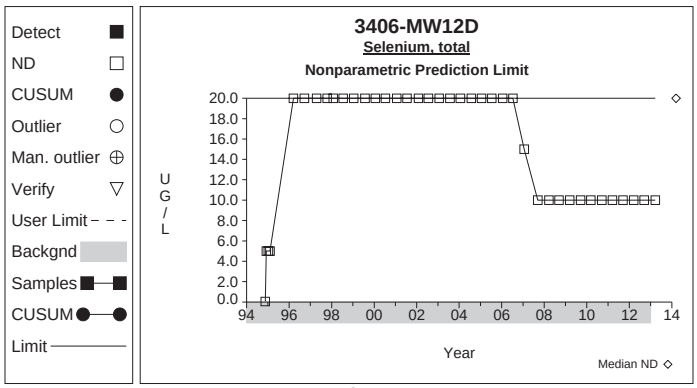
Intra-Well Control Charts



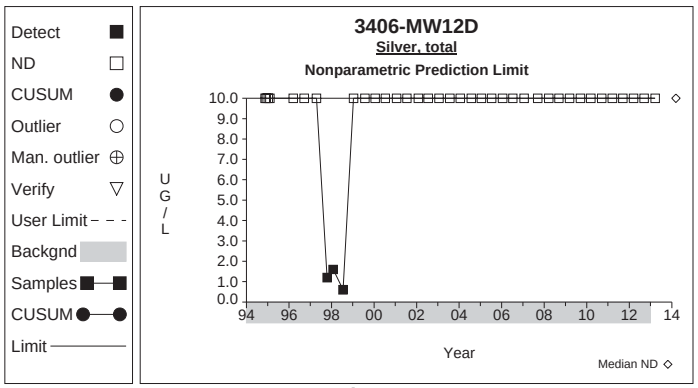
Graph 219



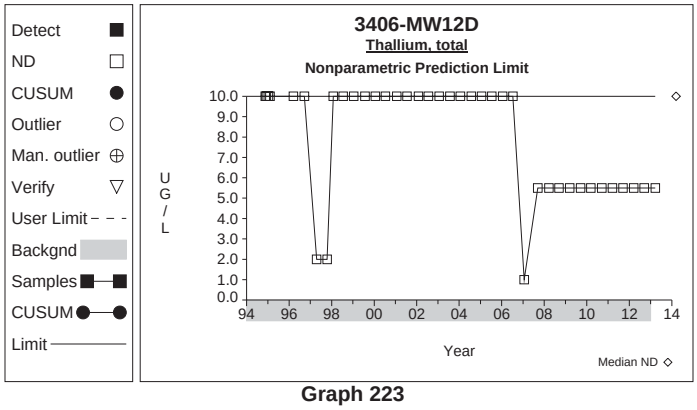
Graph 220



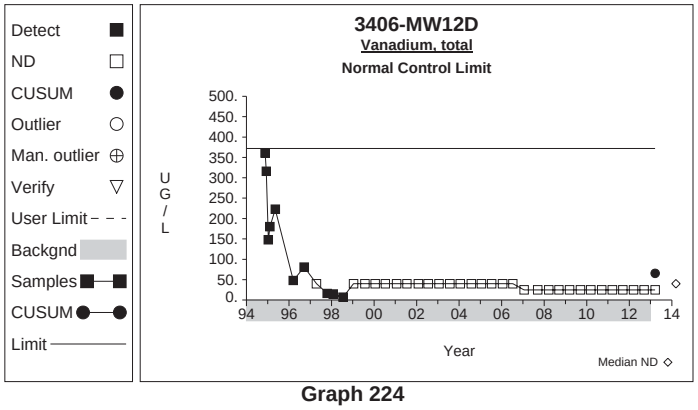
Graph 221



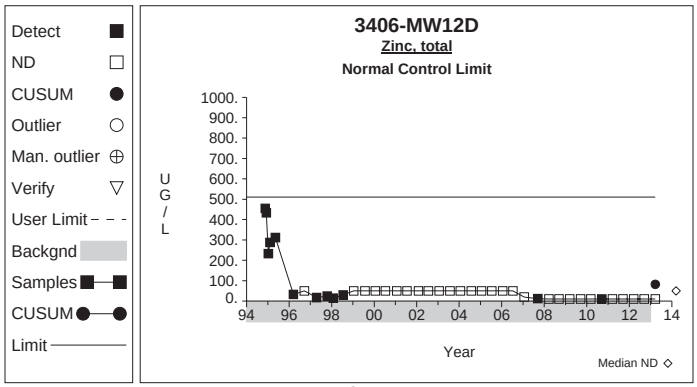
Graph 222



Graph 223

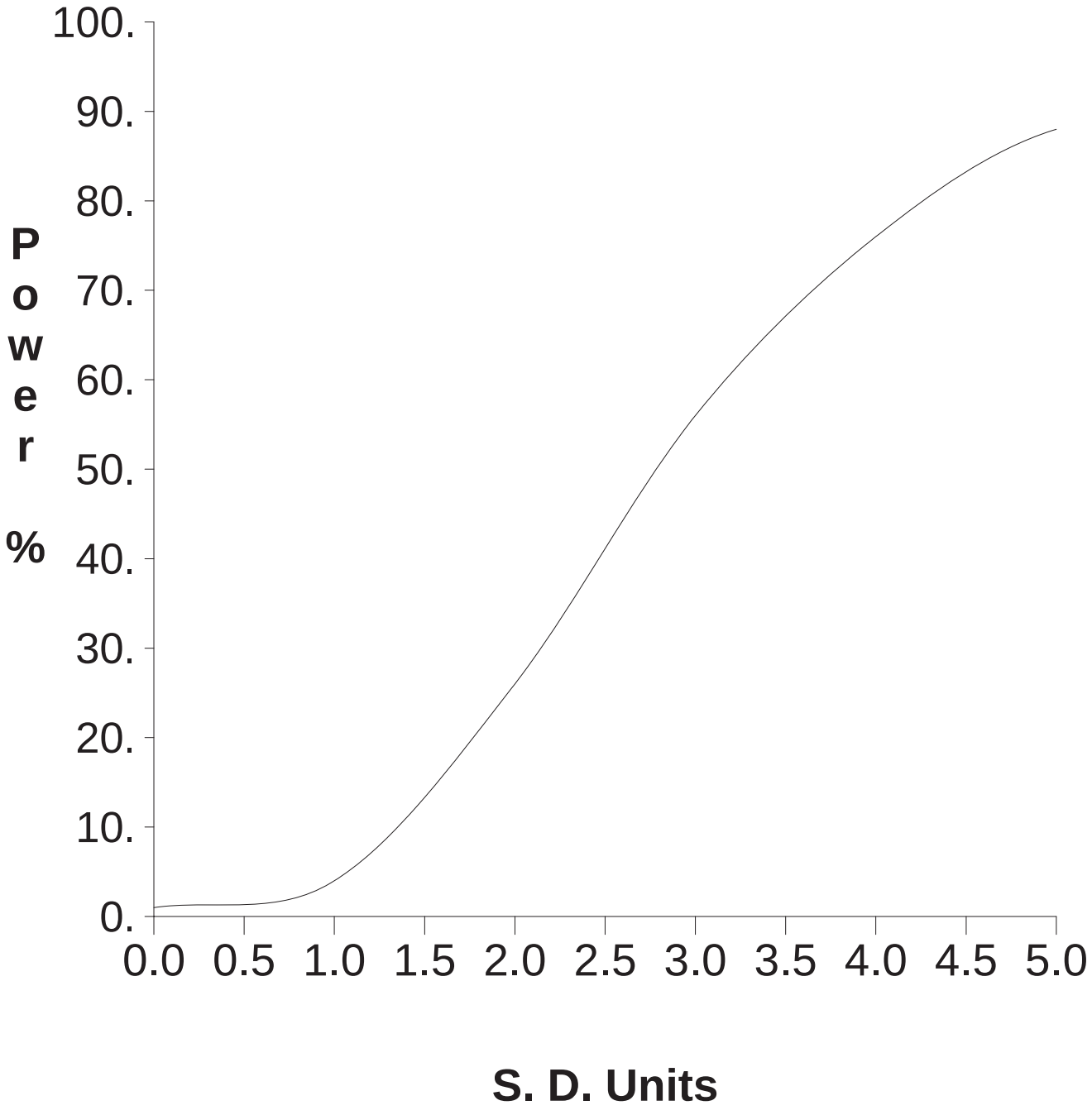


Graph 224

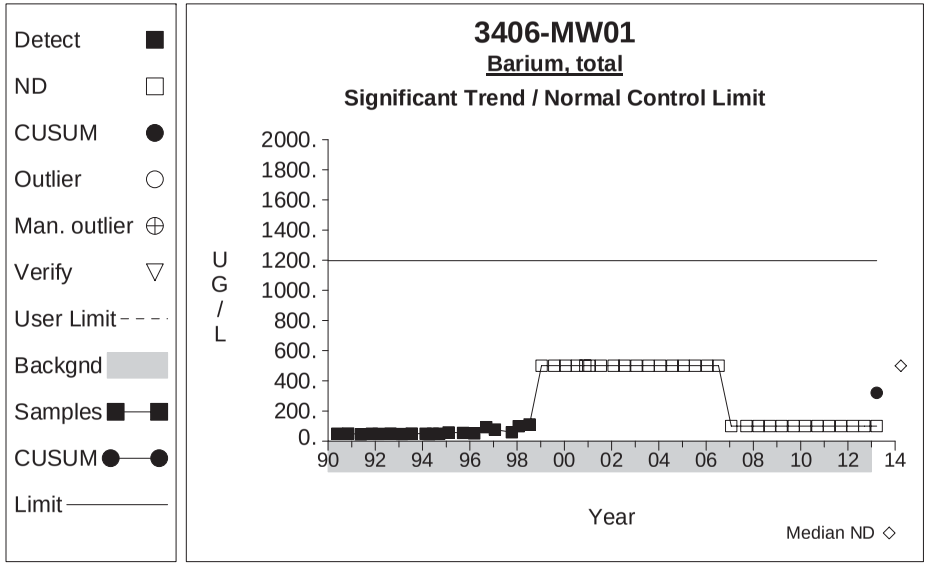


Graph 225

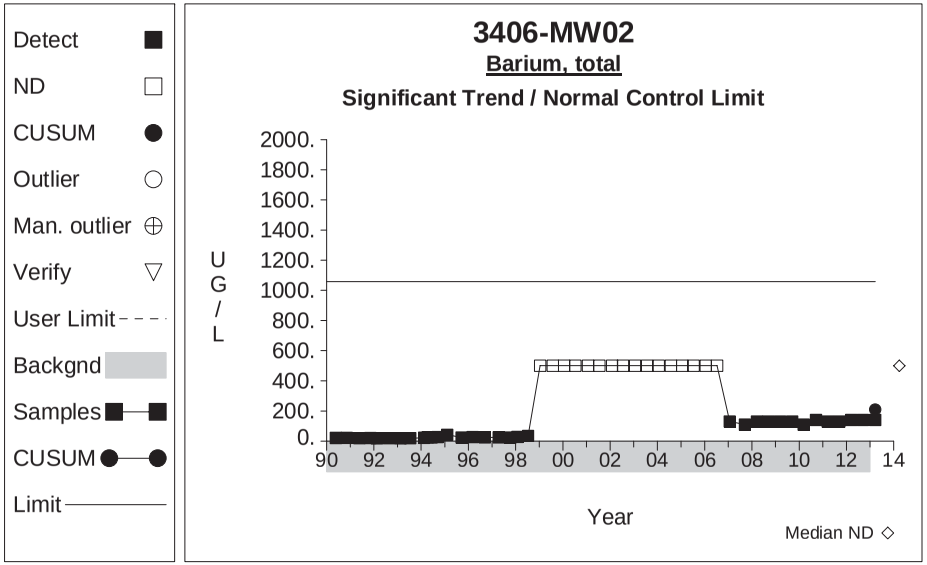
False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program



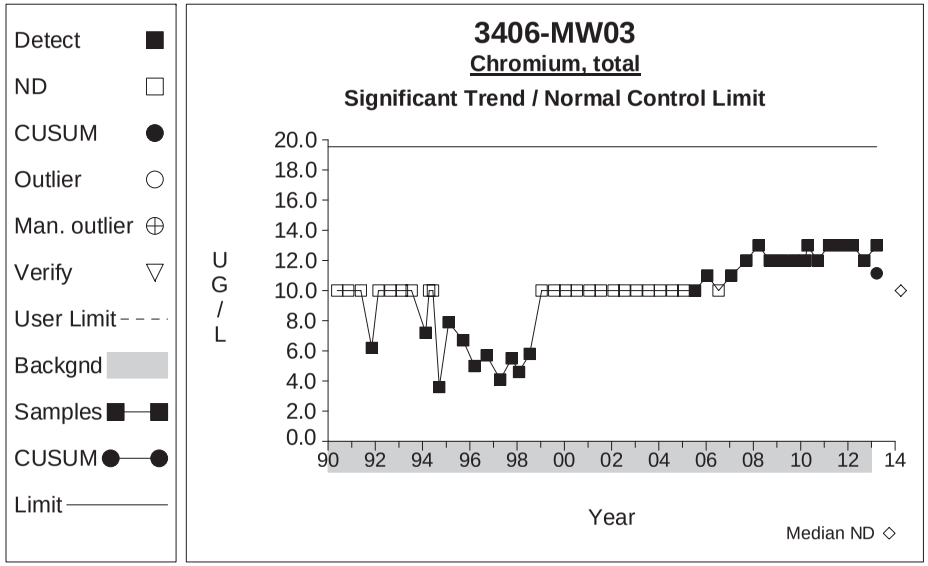
Intra-Well Control Charts



Graph 3



Graph 18



Graph 36

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 – March 2013 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 first semiannual groundwater sampling event of 2013. The groundwater flow and direction calculations presented in this report are based on groundwater elevation data obtained by ProTech on March 20-21, 2013. 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 0.027 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 20.0 feet/year to the north-northwest; Segment i_2 was 5.2 feet/year to the northwest; Segment i_3 was 10.4 feet/year to the west. The average groundwater flow rate for March 2013 was approximately 11.9 feet/year. These groundwater flow directions and velocities are consistent with those calculated during other recent events.

The groundwater measurements obtained during the March 2013 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 – March 2013 Event

Prepared by:

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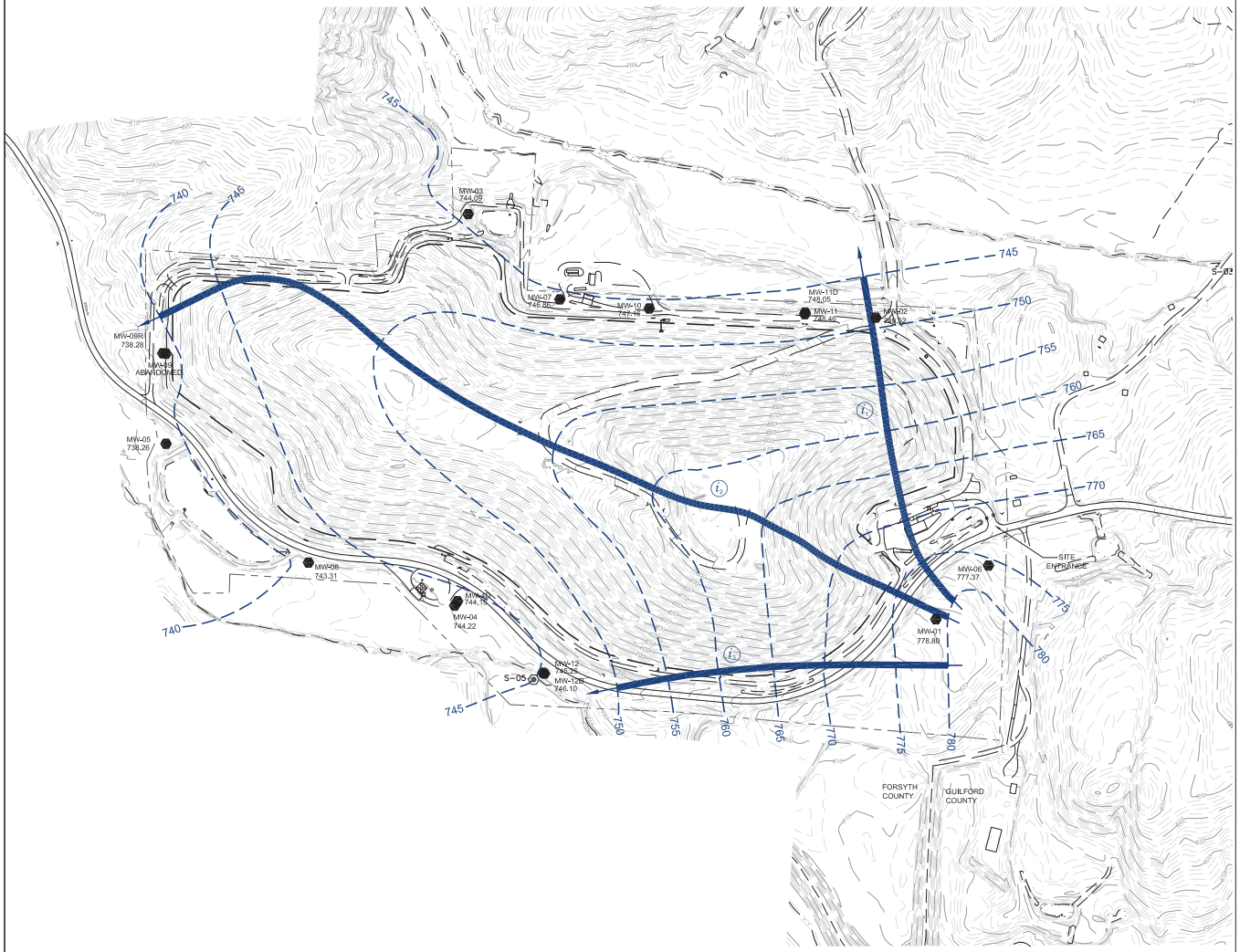
T. Lawrence Hineline, P.G.

NORTH CAROLINA LICENSED SEAL 2357 GEOLOGIST T. LAWRENCE HINELINE

Attachments: Drawing No. 1 – Groundwater Surface Map
Table 2 – Historical Groundwater Elevations
Table 3 – Groundwater Flow Rate Calculations



Well ID	Installation Date	Location Relative to Waste	Screened Interval (feet BGS)	Lithology of Screened Interval	Monitoring Program *
MW-31	07/13/89	Upgradient	44.0 - 49.0	WEATHERED GNEISS BEDROCK	Detection
MW-32	08/05/89	Downgradient	20.2 - 35.5	SILTY SAND	Detection
MW-33	08/06/89	Downgradient	32.5 - 37.5	SILTY SAND	Detection
MW-34	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-35	08/02/89	Downgradient	14.45 - 19.45	SILTY SAND	Detection
MW-36	08/09/93	Upgradient	20.9 - 25.9	SILTY SAND	Detection
MW-37	08/25/94	Downgradient	17.0 - 32.4	SILTY SAND	Detection
MW-38	08/31/94	Downgradient	5.0 - 20.0	SILTY SAND	Detection
MW-39	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

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-0R 738.28
- 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 03/20/13.
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)

DATE	REVISIONS AND RECORD OF ISSUE	NO	BY	CK	APP

DESIGNED ACE
DRAWN ACE
CHECKED ACE
APPROVED GVB
DATE 04/05/13

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PIEDMONT LANDFILL AND RECYCLING CENTER
KERNERSVILLE, NORTH CAROLINA

GROUNDWATER SURFACE MAP
MARCH 20, 2013
PERMIT NO. 34-06

PROJECT NO.
392.1301.12

SCALE
AS NOTED

DRAWING NO.
1

N:\Dwgs\Drawings-Current\WM\Piedmont\GW EVENT MAPS\GW EVENT 03-13.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	35.5	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
20-Mar-2013	778.80	749.52	744.09	744.22	744.15	738.26	777.37	746.86	743.31	NA	738.28	747.16	748.46	748.05	745.25	746.10

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	March 20, 2013		
						Elevation (ft AMSL)	**Gradient** (**i**, ft/ft)	**Velocity** (**V**, ft/yr)
i_1	2.90E-04	9.51E-06	0.41	1283	NNW	780 745	0.027	20.0
i_2	1.70E-04	5.58E-06	0.41	3296	NW	780 740	0.012	5.2
i_3	1.70E-04	5.58E-06	0.41	1242	W	780 750	0.024	10.4
						AVERAGE:	0.021	11.9

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