REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2
IHSB SITE NAME Acme United
DATE & NAME OF DOCUMENT May 20, 2016 GW Monitoring
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REMEDIATING PARTY DOCUMENT CERTIFICATION STATEMENT (.0306(B)(2))

"I certify under penalty of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Larry Buchtmann
Name of Remediating Party

Signature of Remediating Party

6-1-16
Date

NOTARIZATION

NC (Enter State)

Nash **COUNTY**

I, Elizabeth W. Clapsadl, a Notary Public of said County and State, do hereby certify that Larry Buchtmann did personally appear and sign before me this day, produced proper identification in the form of ncdlic 241142422, was duly sworn or affirmed, and declared that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 1st day of June, 2016.

Notary Public (signature)

(OFFICIAL SEAL)

My commission expires: 9/8/18.

ELIZABETH W CLAPSADL
Notary Public
Nash Co., North Carolina
My Commission Expires Sept. 8, 2018

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME Acme United
DATE & NAME OF DOCUMENT May 20, 2016 GW Monitoring Report
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

As the Registered Environmental Consultant for the Site for which this filing is made, I certify that the signatures included herewith are genuine and authentic original handwritten signatures and/or true, accurate, and complete copies of the genuine and authentic original handwritten signatures of the persons who purport to sign for this filing. I further certify that I have collected through reliable means the originals and/or copies of said signatures from the persons authorized to sign for this filing who, in fact, signed the originals thereof. Those persons and I understand and agree that any copies of signatures have the same legally binding effect as original handwritten signatures, and I certify that any person for whom I am submitting a copy of their signature has provided me with their express consent to submit said copy. Additionally, I certify that I am authorized to attest to the genuineness and authenticity of the signatures, both originals and any copies, being submitted herewith and that by signing below, I do in fact attest to the genuineness and authenticity of all the signatures, both originals and copies, being submitted for this filing.

Daniel H. Nielsen
Name of Registered Site Manager

Signature of Registered Site Manager

6/8/16
Date

REGISTERED SITE MANAGER DOCUMENT CERTIFICATION STATEMENT (.0306(b)(1))

"I certify under penalty of law that I am personally familiar with the information contained in this submittal, including any and all supporting documents accompanying this certification, and that the material and information contained herein is, to the best of my knowledge and belief, true, accurate and complete and complies with the Inactive Hazardous Sites Response Act N.C.G.S. 130A-310, et seq, and the remedial action program Rules 15A NCAC 13C .0300. I am aware that there are significant penalties for willfully submitting false, inaccurate or incomplete information."

Daniel H. Nielsen
Name of Registered Site Manager

Signature of Registered Site Manager

6/8/16
Date

NOTARIZATION

NC (Enter State)

WAKE COUNTY

I, Beverly R. Oglesby, a Notary Public of said County and State, do hereby certify that Daniel H. Nielsen did personally appear and sign before me this day, produced proper identification in the form of NCDL, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant of the remediating party of the property referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certifications is true and accurate, and he or she then signed these Certifications in my presence.

WITNESS my hand and official seal this 8 day of June, 2016.

Beverly R Oglesby
Notary Public (signature)

(OFFICIAL SEAL)

BEVERLY R. OGLESBY
NOTARY PUBLIC
WAKE COUNTY, NC
My Commission Expires 8.3.20

My commission expires: 8/3/20.

Document Certification Form No. DC - II
(Revised 8/11)

GROUNDWATER MONITORING REPORT
ACME UNITED CORPORATION
FREMONT, WAYNE COUNTY, NORTH CAROLINA
SITE ID NO. NCD045924339

Prepared for:

Acme United Corporation
2280 Tanner Road
Rocky Mount, North Carolina 27801

Prepared by:

Mid-Atlantic Associates, Inc.
REC #00009
409 Rogers View Court
Raleigh, North Carolina 27610

May 11, 2016

Mid Atlantic
Engineering & Environmental Solutions

GROUNDWATER MONITORING REPORT
ACME UNITED CORPORATION
FREMONT, WAYNE COUNTY, NORTH CAROLINA
SITE ID NO. NCD045924339

May 11, 2016

Mid-Atlantic Associates Job No. 000R1849.07

Prepared For:

Acme United Corporation
2280 Tanner Road
Rocky Mount, North Carolina 27801

Prepared By:

MID-ATLANTIC ASSOCIATES, INC.

Reina L. Diaz
Staff Scientist

Daniel H. Nielsen, PE, RSM
Principal Engineer

Mid Atlantic
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TABLE OF CONTENTS

REC CERTIFICATION FORMS……..……..……i

1.0 INTRODUDCTION 1
1.1 General Information 1
1.2 Disclaimer.....2

2.0 POTENTIAL RECEPTOR INFORMATION.....2

3.0 SITE MONITORING RESULTS AND DISCUSSION 3
3.1 Groundwater Level Measurements 3
3.2 Groundwater Quality 3
3.3 Surface water Quality 5
3.4 Discussion 5

4.0 CONCLUSIONS AND RECOMMENDATIONS 6
4.1 Conclusions.....6
4.2 Recommendations 6

DRAWINGS

Drawing 1.1 Site Topographic Map
Drawing 1.2 Site Map
Drawing 1.3 Groundwater Treatment Transects
Drawing 3.1 Groundwater Table Elevation Contour Map (March 18, 2016)
Drawing 3.2 1,1,1-Trichloroethane and Degradation Compounds in Groundwater
Drawing 3.3 Tetrachloroethene and Degradation Compounds in Groundwater

TABLES

Table 3.1 Monitoring Well and Groundwater Elevation Data
Table 3.2 Summary of Field and Indicator Parameters
Table 3.3 Summary of Volatile Organic Compounds Detected in Groundwater Samples
Table 3.4 Summary of Volatile Organic Compounds Detected in Surface Water Samples

APPENDICES

Appendix A Standard Operating Procedures
Appendix B Laboratory Data Report and Chain of Custody Record
Appendix C Graphical Representation of Chemical Constituents in Groundwater Over Time

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1.0 INTRODUDCTION

1.1 General Information

The subject site is the former Acme United Corporation facility (Acme) at 701 South Wilson Street in Fremont, North Carolina (Drawings 1.1 and 1.2). The plant was built in 1969 and was owned by Acme United Corporation of Fairfield, Connecticut from 1969 to 2014. Acme United commenced operations at the site in 1969 as a manufacturer of nickel-plated disposable medical instruments, including Kleen-Cut brand nickel-plated scissors. In addition, they assembled customized, pre-sterilized surgery packs for the medical profession. These packs typically included threaded needles, gauze and disposable scissors. Manufacturing ceased at the site in 1999 and the building was used by Acme as a warehouse and repackaging facility from 1999 until 2014 when the facility was sold.

The subject site consists of three adjoining parcels comprising a total area of approximately 12.6 acres (identified as the former Acme United Main Facility on Drawing 1.2). Two structures are on site including a main building (approximately 53,000 ft^2) and a storage shed. Portions of the site are covered with asphalt parking, open grassy area, and dense woods. A stream, Wolf Branch, boarders the western side of the site.

An irregular shaped satellite property was also owned by Acme (identified as the Acme United Satellite Property on Drawing 1.2). This property is approximately 500 feet south of the main property. The satellite property is approximately 7.5 acres in size and there are no structures on the satellite property.

Acme executed an Administrative Agreement and the site was entered into Inactive Hazardous Sites Branch's (IHSB's) Registered Environmental Consultant (REC) Program on August 14, 2008. The Administrative Agreement identifies the Remediator as Acme United Corporation, the REC as Mid-Atlantic Associates, Inc., and the Registered Site Manager (RSM) as Thomas Proctor. Upon Mr. Proctor's retirement in May 2012, Daniel Nielsen became the RSM for this project.

Mid-Atlantic prepared a Phase I Remedial Investigation (RI) Work Plan dated June 29, 2009 and a Phase I RI Report and Work Plan dated February 9, 2010. Mid-Atlantic prepared a Phase II Remedial Investigation Report dated July 26, 2013 summarizing the finding of activities associated with implementation of the February 9, 2010 Work Plan. Results from the Phase II report indicate that groundwater at the main facility has been impacted by releases of chlorinated solvents. The primary contaminants of concern are 1,1,1-trichloroethane (TCA) and tetrachloroethene (PCE), and their degradation (daughter) compounds. The former releases appear to be associated with a former sludge landfill area, a former drum storage area, and a storage shed located in the

southern portion of the property, which resulted in exceedances of the North Carolina Groundwater Quality Standards (NCGQS).

A Remedial Action Plan (RAP) was submitted on February 20, 2014 with the intent to prevent/limit the further migration of volatile organic compounds (VOCs) in groundwater as well as to reduce the existing concentrations of contaminants in the groundwater. Enhanced monitored natural attenuation (MNA) was determined to be the most practical and cost-effective remediation strategy for the subject site. To test the efficacy of enhanced MNA, a pilot study was conducted from January to November 2014 at two locations using the injection chemical Anaerobic Biochem (ABC®) Plus. ABC+ injections are designed to enhance reducing conditions by providing nutrients and a carbon source to stimulate and grow microbial populations which consume (degrade) the dissolved contaminant mass. The results showed that use of ABC+ to remediate the solvent plumes is viable and this data was included in a report dated November 14, 2014 and submitted to North Carolina Department of Environmental Quality (NCDEQ).

Following approval from NCDEQ (formerly NCDENR) in May 2015 to construct injection wells (WIO 700352), Mid-Atlantic installed injection wells constructed in five transects located to the west and south of the building on the subject site (Drawing 1.3). The injection activities were conducted from August 4 through August 14, 2015. Details associated with the injection activities are described in the July 15, 2015 “Remedial Action Pre-Construction Report” and the November 5, 2015 “Remedial Action Post-Construction Report,” both authored by Mid-Atlantic. In accordance with the RAP, Mid-Atlantic collected samples at six monitoring wells and three surface water locations at the subject site on March 18, 2016. The remainder of this document summarizes the findings of the analysis conducted on those samples collected during the groundwater monitoring event.

1.2 Disclaimer

The opinions included herein are based on our experience and the information obtained during the study. This report is based on limited observations made on the dates noted using the procedures described herein. If additional information becomes available, we request the opportunity to review the information, reassess the potential environmental concerns and modify our conclusions and recommendations, if appropriate.

2.0 POTENTIAL RECEPTOR INFORMATION

Receptor information for the site was documented in Mid-Atlantic’s June 2009 RI Workplan and meets the requirements of .0306(g)(6) of the REC Program rules. Private water-supply wells were not identified within ½ mile radius of the subject site. No wellhead

protection areas exist within a ½ mile radius of the source area of release and all agencies contacted for the potential presence of environmentally sensitive areas on/near the Acme site responded that environmentally sensitive areas were not present.

The closest surface water body is Wolf Branch which runs along the western property boundary of the subject site. This stream does not appear on the USGS Topographic Map (Drawing 1.1), but appears to be an intermittent stream that drains to Nahunta Swamp.

According to NCDEQ's Division of Water Resources Surface Water Classifications Map (http://ncdenr.maps.arcgis.com/apps/webappviewer/index.html?id=6e125ad7628f494694e259c80dd64265), Nahunta Swamp is classified as a Class C;Sw,NSW water. Class C, NSW waters are defined as freshwaters that must be protected for aquatic life propagation and survival, fishing, wildlife, secondary recreation and agriculture. These waters have limitations for nutrient inputs (NSW). Sw signifies swamp waters.

3.0 SITE MONITORING RESULTS AND DISCUSSION

On March 18, 2016, Mid-Atlantic personnel collected water samples from six monitoring wells (MW-6, MW-7, MW-8, MW-12, MW-15, and MW-16) and three surface water locations (SS-1, SS-4, SS-5) at the subject site. Water elevation data and field parameters were recorded for the six monitoring wells. Samples were collected from the wells in accordance with the sampling procedures detailed in Appendix A. These samples were sent to Prism Laboratories, Inc. (Prism) of Charlotte, North Carolina, NC Certification # 402, for laboratory analysis (Appendix B).

3.1 Groundwater Level Measurements

Water level data from this sampling event and historical water level data are summarized in Table 3.1. A groundwater elevation map (Drawing 3.1) indicates that local groundwater flows to the southwest towards Wolf Branch.

3.2 Groundwater Quality

All six of the groundwater wells are located at the former Acme United Main Facility (Drawing 1.2).

Prior to sample collection, each well was purged with a disposable bailer of at least three well volumes. Field parameters were measured using a YSI-556 water quality meter. Dissolved oxygen was measured before purging activities and all other field

parameters were measured during the purging process. Three measurements were taken at each well to confirm the stabilization of field parameters. Field parameters collected from this sampling event and historical field parameter data are summarized in Table 3.2.

All groundwater samples collected were placed in laboratory-supplied, pre-preserved bottles, placed in insulated shipping containers, and immediately stored on ice until delivery to the laboratory. The samples were overnighted via FedEx to Prism following standard chain-of-custody procedures. The groundwater samples were analyzed for VOCs by USEPA Method 8260 as well as ferrous iron, total iron, carbon dioxide, chloride, manganese, nitrate, sulfate, sulfide, total organic carbon (TOC), dissolved organic carbon (DOC), and alkalinity. Results from the VOC analysis measured by Method 8260 are summarized in Table 3.3 along with historical data. Results from all other laboratory analysis is summarized in Table 3.2 along with historical field and indicator parameter data.

Groundwater sample data results were compared to NCGQS (Drawings 3.2 and 3.3). Samples from the following wells indicated contamination at levels above the NCGQS, all concentrations are in µg/L:

Well ID	Tetrachloroethene	1,1-Dichloroethane
MW-6	18	Below Standard
MW-8	180	8.6
MW-12	480	6.9
MW-15	17	9.9
MW-15Dupe	17	9.7
MW-16	13	Below Standard
NCGQS	**0.7**	**6**

Trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), 1,2-dichloroethene (1,2-DCE), and 1,1,1-trichloroethane (1,1,1-TCA) were also detected in groundwater samples collected during this sampling event, but at levels below their respective NCGQS.

3.3 Surface water Quality

Surface water location SS-1 is located upstream at the northwest corner of the former Acme United main facility, SS-4 is located at the southwestern corner of the main facility boundary, SS-5 is located downstream of the main facility on the Acme satellite property (Drawing 1.2).

All surface water samples collected were placed in laboratory-supplied, pre-preserved bottles, placed in insulated shipping containers, and immediately stored on ice until delivery to the laboratory. The samples were overnighted via FedEx to Prism following standard chain-of-custody procedures. The samples were analyzed for VOCs by USEPA Method 8260.

Laboratory analytical results from the surface water samples were compared to North Carolina Surface Water Quality Standards (NCSWQS) for freshwater aquatic life parameters. The sample data from SS-4 indicated concentrations of 1,1-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, and tetrachloroethene at 0.61 µg/L, 0.54 µg/L, 1.4 µg/L, and 1.1 µg/L respectively. Numerical regulatory standards are currently not established for these compounds for NCSWQS freshwater aquatic life parameters. Volatile organic compounds were not detected in stream sample data collected from SS-1 and SS-5. Results from this sampling event as well as historical chemical constituents detected in surface water are summarized in Table 3.4.

3.4 Discussion

With the exception of the detected levels of 1,2-DCE in samples collected from monitoring well MW-15 and 1,1,1-TCA in samples collected from monitoring well MW-8, VOC concentrations observed in samples from the six monitoring wells have decreased since the last sampling event. Because the wells have differing sampling schedules, the date of the most recent sampling event varies among the wells sampled. Concentrations of chlorinated solvents have a tendency to fluctuate, therefore it is more informative to interpret trends based on several sampling events conducted over years.

Overall, among the six monitoring wells sampled during the monitoring event, concentration trends for all VOCs appear to be decreasing. However, due to sampling frequency, samples collected from MW-6 and MW-8 give the best representation of data trends. All VOC concentrations appear to exhibit a decreasing trend in samples collected from MW-6 while sample data collected from MW-8 show that VOC concentrations have remained stable with little fluctuation, with the exception of PCE. Concentrations of PCE in samples collected from MW-8 have fluctuated regularly throughout historical monitoring, but most recently has shown a drop in concentration. Graphical

representations of VOC concentrations in samples collected from the six monitoring wells over time are attached in Appendix C.

ABC+ injections are designed to enhance reducing conditions by providing nutrients and a carbon source to stimulate and grow microbial populations to consume (degrade) the dissolved contaminant mass. Anaerobic digestion is facilitated by low dissolved oxygen (DO) levels (preferably less than 1 mg/L), pH levels of 6.5-8.5 (pH between 7 and 8 is optimal), and low oxidation-reduction potential (ORP, preferably negative). Overall, measured DO was higher than desired in all wells sampled during this sampling event and ranged from 1.42 to 3.09 mg/L. The pH levels in all of the groundwater wells sampled remain below 6.5 and ranged from 5.12 to 6.17. Except for MW-6, ORP levels measured in all wells were positive, but measured below 100 millivolts (mV).

With the exception of toluene, numerical regulatory standards are currently not established for NCSWQS freshwater aquatic life parameters for VOCs historically detected in samples collected from Wolf Branch. Results from this sample event, as well as historical VOCs detected in surface water, are summarized in Table 3.4. The data suggests that there are no surface water impacts downstream of the subject site.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

Results from the groundwater samples taken from MW-6, MW-7, MW-8, MW-12, MW-15, and MW-16 indicate that PCE and 1,1-DCA remain at levels exceeding NCGQS in multiple wells. It appears that overall trends of VOC concentrations in these wells may be decreasing and that the ABC+ injection event has supported chemical degradation. An accurate trend analysis cannot be completed without further sampling events.

4.2 Recommendations

Evaluation of the ABC+ injection event will be better understood with more sampling events. We recommend remaining on the proposed schedule to sample eleven monitoring wells in September of 2016. These wells will include MW-1, MW-6, MW-7, MW-8, MW-12, MW-15, MW-16, MW-17, MW-18, MW-19, and MW-20. However, since sampling from MW-7 shows results consistently below NCGQS, sampling of this well will be replaced with sampling of MW-9.

DRAWINGS

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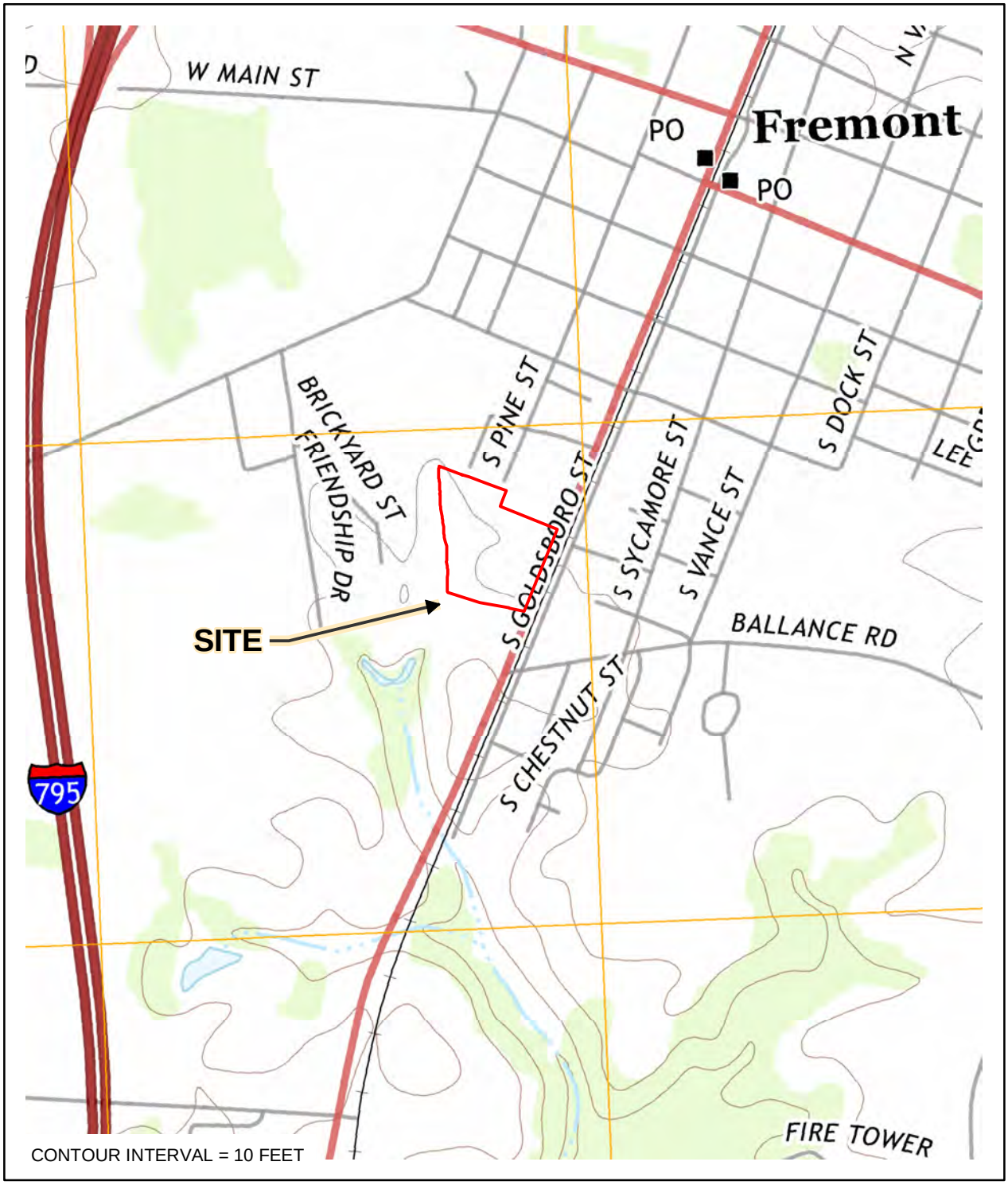

REFERENCES:

1. FREMONT, NC DIGITAL RASTER GRAPHIC FILE, US GEOLOGICAL SURVEY. SCANNED FROM 1:24,000-SCALE FREMONT, NC TOPOGRAPHIC MAP, PUBLISHED 2013, USGS.
2. SUBJECT SITE PROPERTY LINE FROM WAYNE COUNTY GIS. LINES CURRENT AS OF OCTOBER 2015.

SCALE: 1:12,000

Feet

0 500 1,000 2,000

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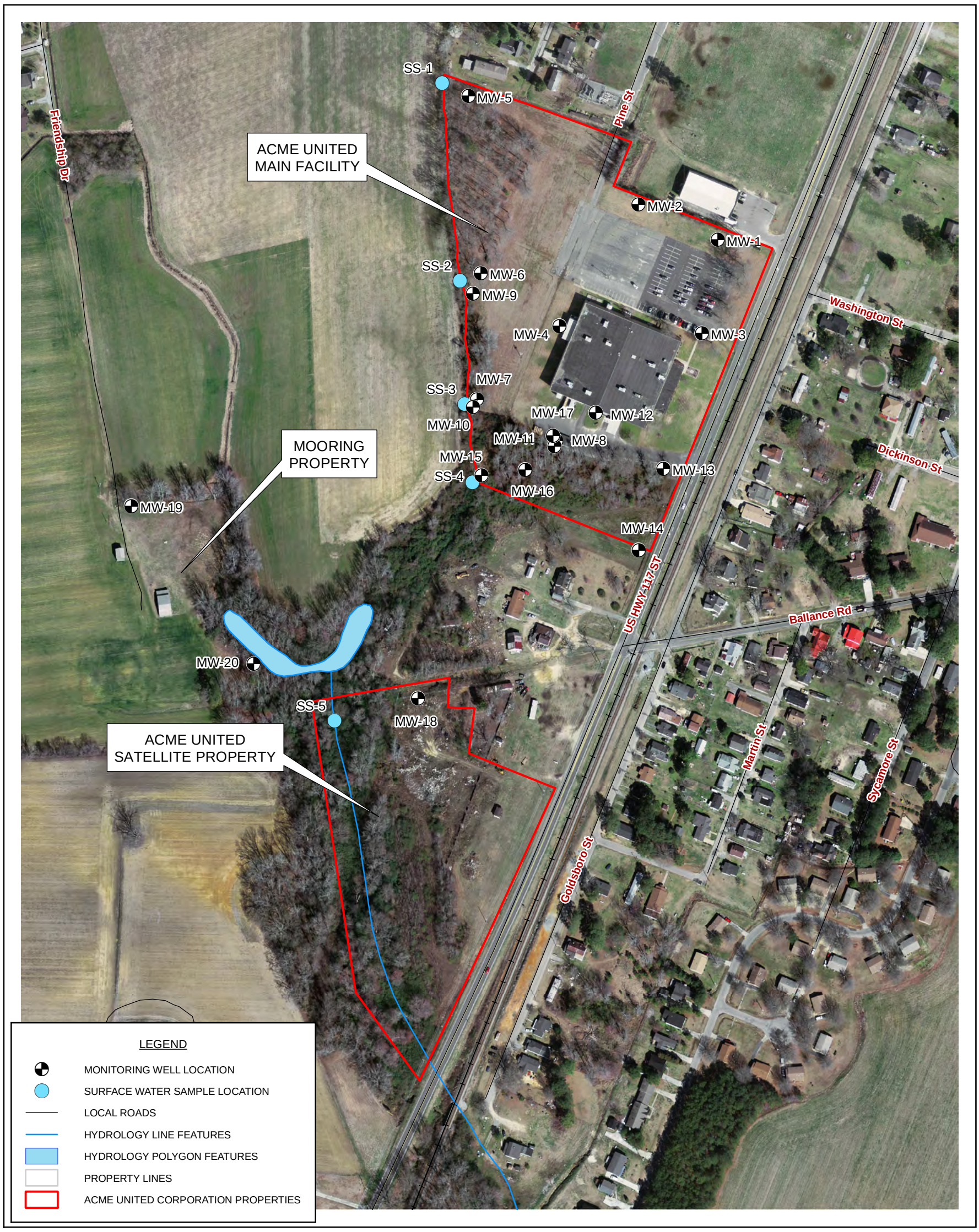
SITE TOPOGRAPHIC MAP
ACME UNITED CORPORATION
701 SOUTH WILSON STREET
FREEMONT, NORTH CAROLINA

DRAWN BY:	DATE: APRIL 2016
DRAFT CHECK:	JOB NO: 000R1849.07
ENG. CHECK:	GIS NO: 04G-R1849.07-1.1
APPROVAL:	DWG NO: 1.1



REFERENCES:
1. PROPERTY LINE DATA FROM WAYNE CO. GIS.
2. PROPERTY LINES AS OF JANUARY 2012.
3. HYDROLOGY DATA FROM DIVISION OF WATER QUALITY, NCDENR.
4. 2008 AERIAL IMAGERY FROM NC CGIA.
5. MONITORING WELL LOCATIONS FROM BENTON & ASSOCIATES SURVEY.

0 250 500 Feet

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SITE MAP
ACME UNITED CORPORATION
701 SOUTH WILSON STREET
FREMONT, NORTH CAROLINA

DRAWN BY: SH	DATE: APRIL 2016
DRAFT CHECK:	JOB NO: 000R1849.07
ENG. CHECK:	GIS NO: 04G-R1849.07-1.2
APPROVAL:	DWG NO: 1.2

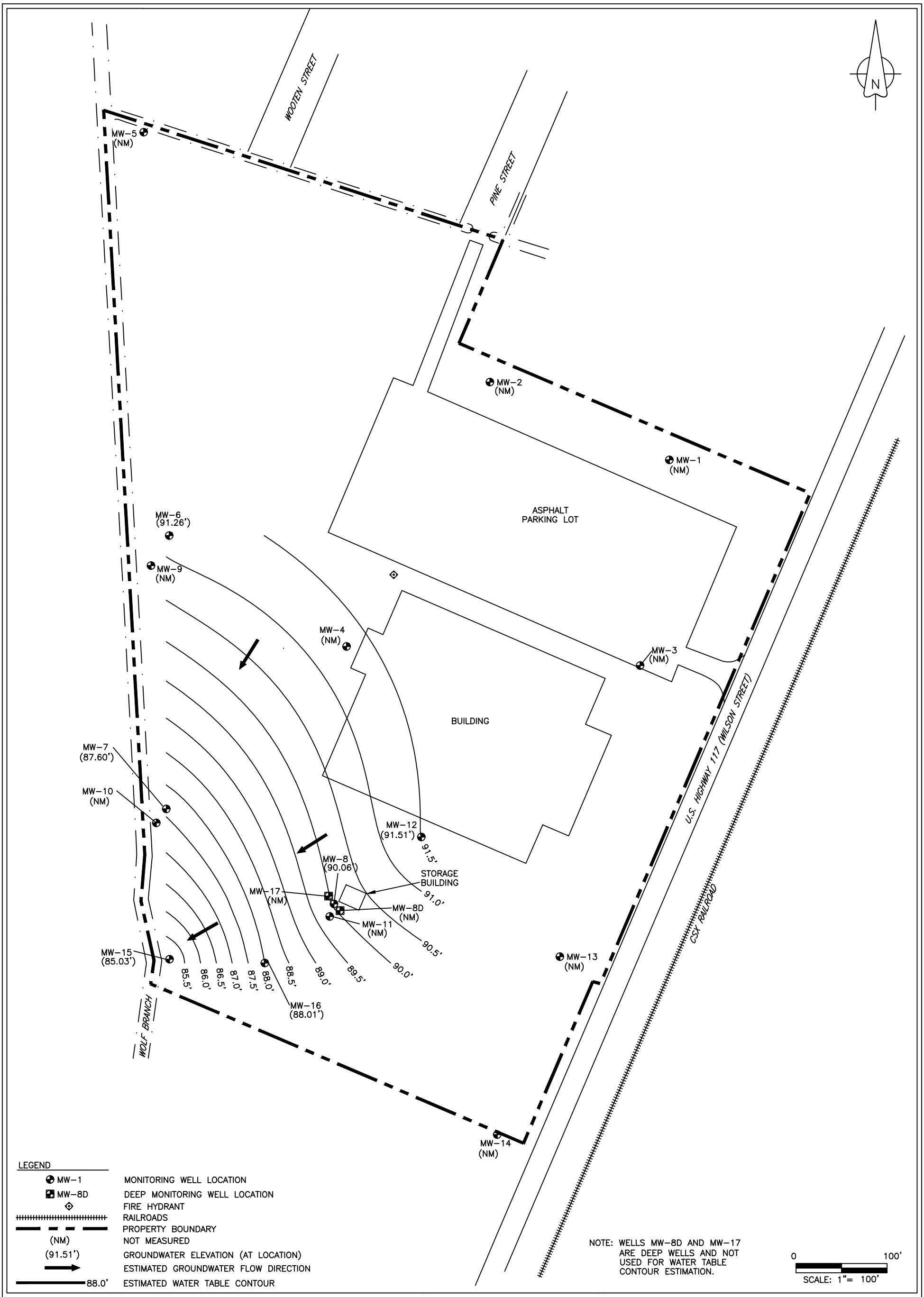
REFERENCES:
1. PROPERTY LINE DATA FROM WAYNE CO. GIS.
2. PROPERTY LINES AS OF JANUARY 2012.
3. HYDROLOGY DATA FROM DIVISION OF WATER QUALITY, NCDENR.
4. 2008 AERIAL IMAGERY FROM NC CGIA.
5. MONITORING WELL LOCATIONS FROM BENTON & ASSOCIATES SURVEY.
6. ND = NOT DETECTED.
7. NT = NOT TESTED.

0 120 240 Feet

Mid Atlantic Engineering & Environmental Solutions

GROUNDWATER TREATMENT TRANSECTS
ACME UNITED CORPORATION
701 SOUTH WILSON STREET
FREMONT, NORTH CAROLINA

DRAWN BY: GH	DATE: APRIL 2016
DRAFT CHECK:	JOB NO: 000R1849.07
ENG. CHECK:	GIS NO: 04G-R1849.07-1.3
APPROVAL:	DWG NO: 1.3



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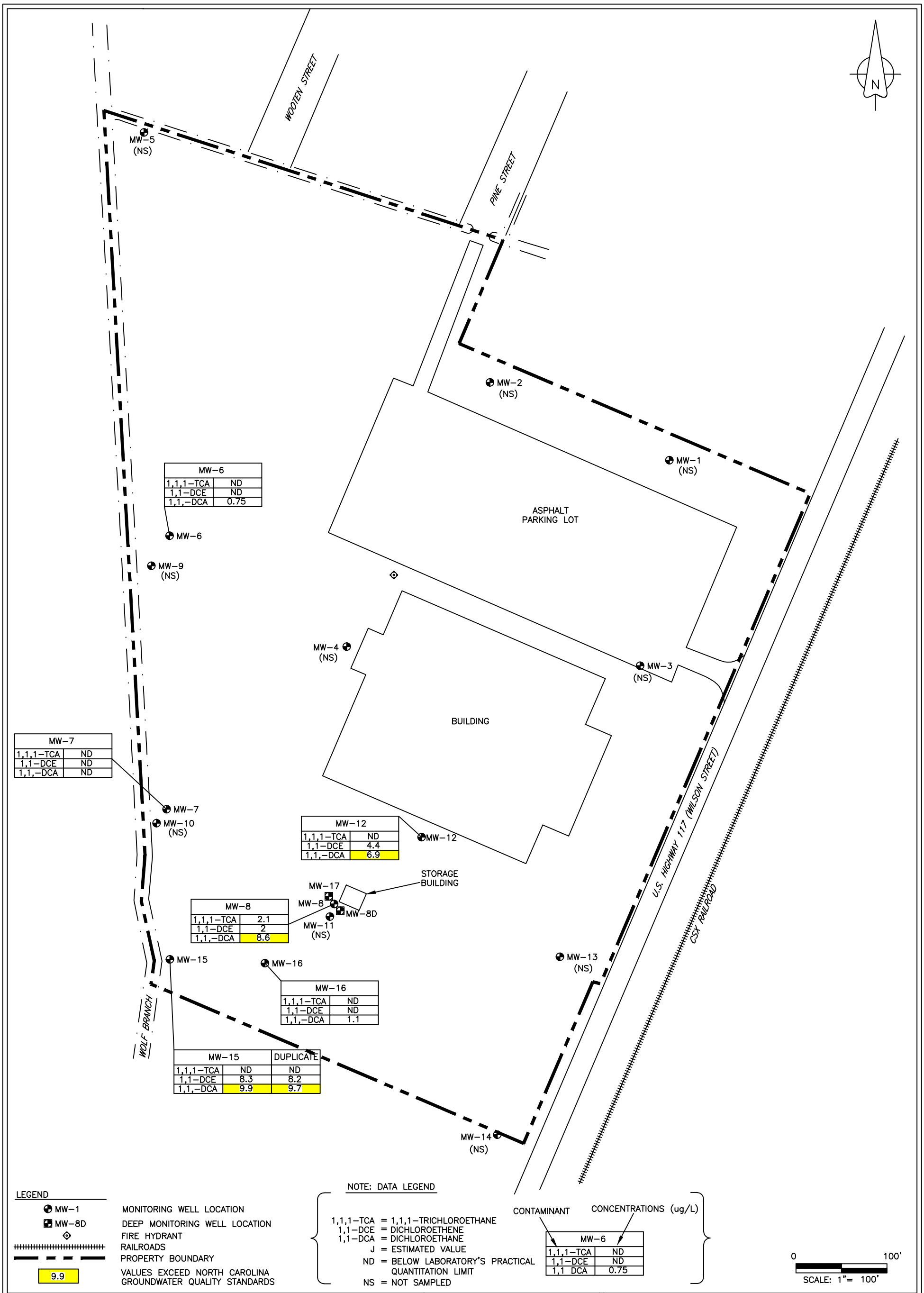
GROUNDWATER TABLE ELEVATION
CONTOUR MAP (MARCH 18, 2106)
ACME UNITED CORPORATION
701 SOUTH WILSON STREET
FREMONT, NORTH CAROLINA

DRAWN BY: JIE	DATE: APRIL 2016
DRAFTING CHECK BY:	JOB NO: 000R1849.07
ENGINEER CHECK BY:	CAD # 01-184903-07
APPROVED BY:	DWG NO: 3.1

REFERENCE: BENTON & ASSOCIATES LAND SURVEYING AND MAPPING MAP DATED 8/11/12; MID-ATLANTIC FIELD NOTES.



MW-6	
1,1,1-TCA	ND
1,1-DCE	ND
1,1,-DCA	0.75

MW-7	
1,1,1-TCA	ND
1,1-DCE	ND
1,1,-DCA	ND

MW-12	
1,1,1-TCA	ND
1,1-DCE	4.4
1,1,-DCA	6.9

MW-8	
1,1,1-TCA	2.1
1,1-DCE	2
1,1,-DCA	8.6

MW-16	
1,1,1-TCA	ND
1,1-DCE	ND
1,1,-DCA	1.1

MW-15		DUPLICATE
1,1,1-TCA	ND	ND
1,1-DCE	8.3	8.2
1,1,-DCA	9.9	9.7

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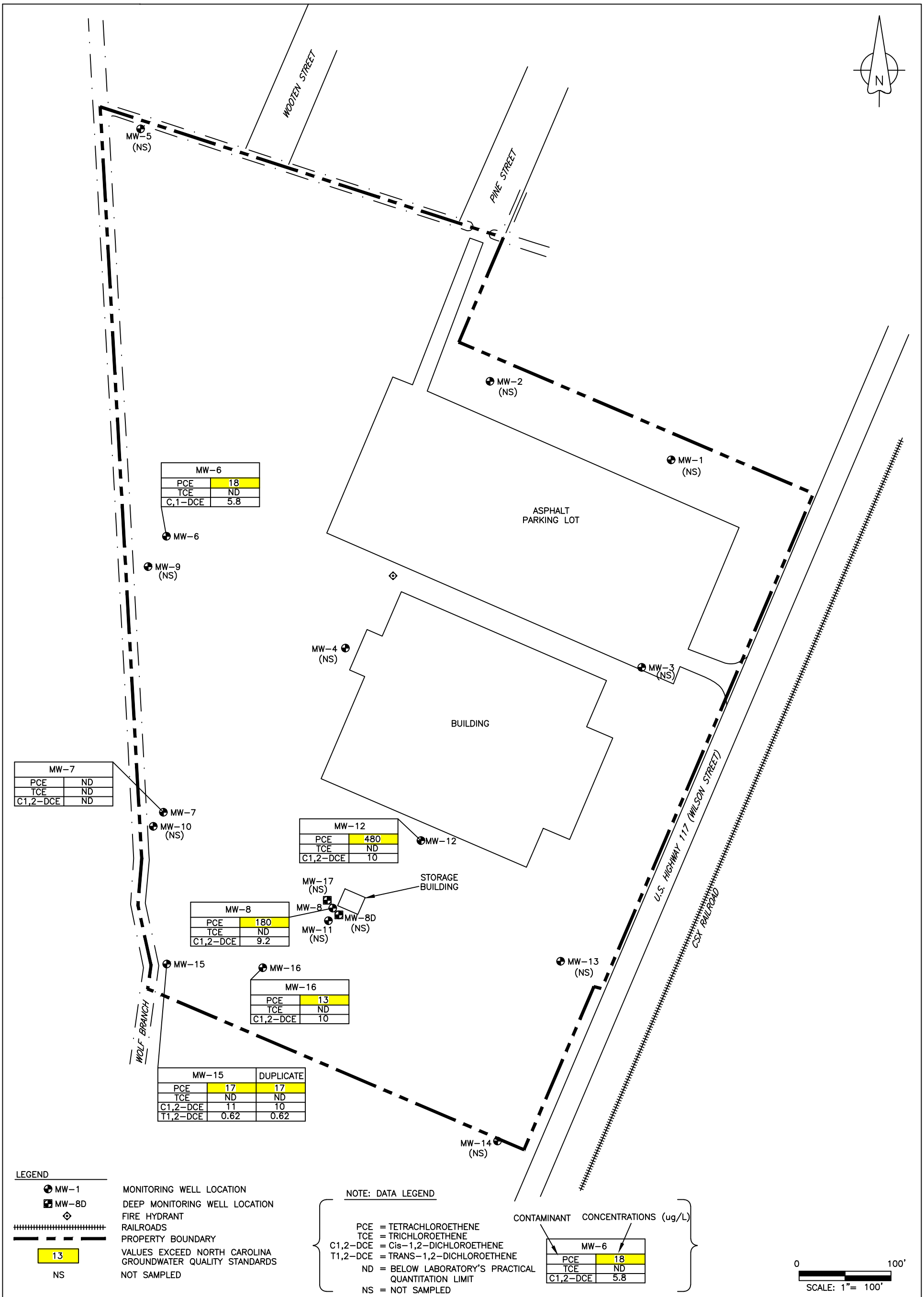
1,1,1 TRICHLOROETHANE AND DEGRADATION COMPOUNDS IN GROUNDWATER (MARCH 18, 2016)
ACME UNITED CORPORATION
701 SOUTH WILSON STREET
FREMONT, NORTH CAROLINA

DRAWN BY: JIE	DATE: APRIL 2016
DRAFTING CHECK BY:	JOB NO: 000R1849.07
ENGINEER CHECK BY:	CAD # 01-184902-07
APPROVED BY:	DWG NO: 3.2

REFERENCE: BENTON & ASSOCIATES LAND SURVEYING AND MAPPING MAP DATED 8/11/12; MID-ATLANTIC FIELD NOTES.



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TETRACHLOROETHENE AND DEGRADATION COMPOUNDS IN GROUNDWATER (MARCH 18, 2016)
ACME UNITED CORPORATION
701 SOUTH WILSON STREET
FREMONT, NORTH CAROLINA

DRAWN BY: JIE	DATE: APRIL 2016
DRAFTING CHECK BY:	JOB NO: 000R1849.07
ENGINEER CHECK BY:	CAD # 01-184901-07
APPROVED BY:	DWG NO: 3.3

REFERENCE: BENTON & ASSOCIATES LAND SURVEYING AND MAPPING MAP DATED 8/11/12; MID-ATLANTIC FIELD NOTES.

TABLES

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TABLE 3.1
MONITORING WELL AND GROUNDWATER ELEVATION DATA
ACME UNITED CORPORATION
FREMONT, NORTH CAROLINA
MID-ATLANTIC PROJECT NO.: R1849.07

WELL ID	TOC (ft)	DATE	DTW (ft)	SWLE (ft)
MW-1	101.26	10/16/09	9.19	92.07
		2/8/12	3.72	97.54
		8/28/13	7.89	93.37
MW-2	100.68	10/16/09	9.29	91.39
		2/8/12	2.82	97.86
		8/27/13	7.41	93.27
MW-3	98.55	10/16/09	8.06	90.49
		2/8/12	3.54	95.01
		8/27/13	7.05	91.50
MW-4	99.32	10/16/09	9.71	89.61
		2/8/12	5.38	93.94
		8/27/13	8.92	90.40
MW-5	101.36	10/16/09	10.68	90.68
		2/8/12	7.62	93.74
		8/27/13	9.29	92.07
MW-6	96.46	10/16/09	8.64	87.82
		2/8/12	4.73	91.73
		8/27/13	7.44	89.02
		3/18/16	5.20	91.26
MW-7	95.65	10/16/09	9.97	85.68
		2/8/12	7.56	88.09
		8/27/13	9.45	86.20
		3/18/16	8.05	87.60
MW-8	94.29	10/16/09	7.57	86.72
		8/27/13	6.37	87.92
		3/18/16	4.23	90.06
MW-8D	94.28	2/8/12	3.64	90.64
		4/13/12	3.64	90.64
		8/27/13	4.59	89.69
MW-9	95.22	1/20/10	4.63	90.59
MW-10	93.87	1/20/10	6.93	86.94
		2/12/12	6.87	87.00
MW-11	97.86	1/20/10	7.55	90.31
		2/8/12	7.68	90.18
MW-12	99.44	2/8/12	7.36	92.08
		8/28/13	10.31	89.13
		3/18/16	7.93	91.51

TABLE 3.1
MONITORING WELL AND GROUNDWATER ELEVATION DATA
ACME UNITED CORPORATION
FREMONT, NORTH CAROLINA
MID-ATLANTIC PROJECT NO.: R1849.07

WELL ID	TOC (ft)	DATE	DTW (ft)	SWLE (ft)
MW-13	95.18	2/8/12	2.96	92.22
		8/27/13	6.08	89.10
MW-14	91.76	2/8/12	0.52	91.24
		8/27/13	3.32	88.44
MW-15	90.32	2/8/12	4.88	85.44
		8/28/13	5.38	84.94
		3/18/16	5.29	85.03
MW-16	94.2	8/27/13	8.48	85.72
		3/18/16	6.19	88.01
MW-17	93.99	7/27/12	46.4	47.59
		8/27/13	5.11	88.88
MW-18	94.27	7/24/12	9.59	84.68
		8/28/13	8.25	86.02
MW-19	99.61	5/31/13	11.73	87.88
		8/27/13	10.12	89.49
MW-20	96.54	5/31/13	11.40	85.14
		8/27/13	10.91	85.63

Notes:
TOC - Top of Casing
DTW - Depth-to-Water
SWLE - Static Water Elevation
TOC elevations shot by Benton & Associates Land Surveying and Mapping

TABLE 3.2
SUMMARY OF FIELD AND INDICATOR PARAMETERS
ACME UNITED CORPORATION SITE
FREMONT, NORTH CAROLINA
MID-ATLANTIC JOB NO. R1849.07

Well ID	Date Sampled	Dissolved Oxygen (mg/L)	pH	Oxidation-Reduction Potential (mV)	Conductivity (ms/cm)	Temperature (Celcius)	Ferrous Iron (mg/L)	Total Iron (mg/L)	Carbon Dioxide (mg/L)	Chloride (mg/L)	Manganese (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	TOC (mg/L)	DOC (mg/L)	Alkalinity (mg/L)
MW-1	8/28/2013	0.71	6.28	60.3	0.292	20.88	**	2.1	**	**	0.035	0.36	38	**	**	**	93
	ABC+ Injection August 4-14, 2015																
MW-6	1/3/14	2.15	4.79	158.1	0.308	16.5	**	**	**	**	**	**	**	**	**	**	**
	Pilot Study January 6-8, 2014																
	4/10/14	1.56	4.9	71.7	0.218	14.7	**	**	**	**	**	**	**	**	**	**	**
	Second Pilot Study June 23-25, 2014																
	10/13/14	0	5.61	-162	0.349	20.5	**	**	**	**	**	**	**	**	**	**	**
	ABC+ Injection August 4-14, 2015																
	3/18/16	2.52	6.17	-91.9	0.158	14.9	23	160	80	15	0.11	0.12 A	27	3.6	4.7	5.8	60
MW-7	ABC+ Injection August 4-14, 2015																
	3/18/2016	1.53	5.4	24.6	0.057	13.89	2.8	23	9.0 Aa	3.5	ND	ND	24	ND	1.7 J	4.6	ND
MW-8	1/3/14	1.1	4.93	280.7	0.226	15.9	**	**	**	**	**	**	**	**	**	**	**
	Pilot Study January 6-8, 2014																
	4/10/14	0.52	4.82	114.6	0.241	13.6	**	**	**	**	**	**	**	**	**	**	**
	Second Pilot Study June 23-25, 2014																
	10/13/14	0.43	6.34	-73	0.705	22	**	**	**	**	**	**	**	**	**	**	**
	ABC+ Injection August 4-14, 2015																
	3/18/16	1.62	5.72	2.7	0.198	14.31	6	7.6	45 Aa	24	ND	1.4 A	50	2	3.6	5.3	20
MW-8D	1/3/14	4.94	7.51	74.6	0.401	18.1	**	**	**	**	**	**	**	**	**	**	**
	Pilot Study January 6-8, 2014																
	4/10/14	0.91	7.25	-31	0.891	18.9	**	**	**	**	**	**	**	**	**	**	**
	Second Pilot Study June 23-25, 2014																
	10/13/14	0.87	6.2	-74	2.948	19.4	**	**	**	**	**	**	**	**	**	**	**
	ABC+ Injection August 4-14, 2015																
MW-9	1/3/14	1.6	4.15	192.3	0.168	14.9	**	**	**	**	**	**	**	**	**	**	**
	Pilot Study January 6-8, 2014																
	4/10/14	1.4	4.49	108.1	0.245	13.9	**	**	**	**	**	**	**	**	**	**	**
	Second Pilot Study June 23-25, 2014																
	10/13/14	0.31	5.09	-181	0.169	20.3	**	**	**	**	**	**	**	**	**	**	**
	ABC+ Injection August 4-14, 2015																
MW-11	1/3/14	1.18	5.28	170.2	0.197	16.9	**	**	**	**	**	**	**	**	**	**	**
	Pilot Study January 6-8, 2014																
	4/10/14	0.59	5.25	118.7	0.289	13.5	**	**	**	**	**	**	**	**	**	**	**
	Second Pilot Study June 23-25, 2014																
	10/13/14	0.7	5.9	-48	0.419	21.1	**	**	**	**	**	**	**	**	**	**	**
	ABC+ Injection August 4-14, 2015																
MW-12	8/28/13	4.08	4.43	312.8	0.415	19.29	**	1.8	**	**	0.013	2.5	26	**	**	**	<5
	ABC+ Injection August 4-14, 2015																
	3/18/2016	1.42	5.57	23.4	0.161	17.62	6.5	31	45 Aa	16	0.014	1.0 A	48	ND	4.1 J	5.2	22
MW-15	8/28/2013	0.83	5.2	206.1	0.322	18.46	**	7.4	**	**	0.025	0.31	49	**	**	**	<5
	ABC+ Injection August 4-14, 2015																
	3/18/2016	2.71	5.16	63.8	0.193	13.55	0.21	17	20 Aa	31	0.026	0.34 A	67	ND	0.32 J	5	9.7
MW-16	ABC+ Injection August 4-14, 2015																
	3/18/2016	3.09	5.12	87	0.182	14.16	ND	33	20 Aa	31	0.021	0.21 A	61	ND	5.6	7.4	8.4
MW-18	8/28/2013	1.31	7.15	-16.8	0.353	18.56	**	2.6	**	**	0.037	0.2	14	**	**	**	130
	ABC+ Injection August 4-14, 2015																

Notes:
Aa = the pH is less than the lowest value on the nomograph, therefore pH 6.0 was used to calculate the result.
Result should be considered a minimum value.
A = No bracketing CCV for last set of samples. NO3 was re-analyzed out of hold on the next business dAa and confirmed.
J = Result is between the Method Detection Limit and Limit of Quantification
ND = not detected at or above method detection limit
** = Not analyzed

TABLE 3.3
SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES
ACME UNITED CORPORATION SITE
FREEMONT, NORTH CAROLINA
MID-ATLANTIC JOB NO.: R1849.07

Well ID	Sampling Date	Volatile Organic Compounds by SW-846 Method 8260 (µg/L)																									
		Acetone	1,1,1-Trichlorethane	1,1,2-Trichloroethane	Benzene	Bromodichloromethane	sec-Butylbenzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Ethylbenzene	Isopropylbenzene	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1, 2-Dichloroethene	Methylene Chloride	Napthalene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	Methyl Ethyl Ketone	Methyl tert-butyl ether (MTBE)
MW-1	10/16/2009	--	--	--	0.71 J	--	--	0.21 J	--	0.28 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/8/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.52 J	--	--	--	--	--	--	--
	2/28/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/28/2013 (Dupe)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-2	10/16/2009	--	--	--	--	--	--	--	--	0.50 J	0.21 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-3	10/16/2009	--	--	--	--	--	--	--	--	--	--	--	0.47 J	--	--	--	0.11 J	--	--	--	**2.18**	--	0.33 J	--	--	--	--	--
	12/1/2009	--	--	--	--	--	--	--	--	--	--	0.7 J	--	--	--	--	0.13 J	--	--	--	**2.94**	--	0.42 J	--	--	--	--	--
	2/8/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3.12**	--	--	--	--	--	--	--
	8/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**4.8**	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-4	10/16/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.49	--	--	--	**0.93 J**	--	1.09	--	--	--	--	--
	2/8/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.79 J	--	--	--	**1.49**	--	0.67 J	--	--	--	--	--
	8/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1.7**	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-5	10/16/2009	--	--	--	--	0.19 J	--	--	--	1.51	--	--	--	--	--	--	--	--	--	--	--	--	--	0.3 J	0.16 J	0.21 J	--	--
	8/27/2013	--	--	--	--	--	0.6	--	--	--	--	--	--	--	--	--	--	--	--	5.4	--	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-6	10/16/2009	--	--	--	--	--	--	--	--	--	--	**11.8**	24.2	--	--	--	14.2	--	--	--	**117**	--	**15.4**	--	--	--	--	--
	2/8/2012	--	0.56 J	0.46J	--	--	--	--	--	--	--	**8.22**	19.7	--	--	--	12.4	--	1.34 J	--	**79.2**	--	**13.2**	--	--	--	--	--
	8/27/2013	--	--	--	--	--	--	--	--	--	--	**6.2**	16	--	--	--	12	--	--	--	**88**	--	**15**	--	--	--	--	--
	1/3/2014	--	--	--	--	--	--	--	--	--	--	4	11	--	--	--	7.1	--	--	--	**68**	--	**9.1**	--	--	--	--	--
	Pilot Study January 6-8, 2014																											
	4/8/2014	12	--	--	--	--	--	1.6 J	--	--	--	2.4	5.1	--	--	--	3	--	--	--	**43**	--	**4.4**	--	--	--	3.5 J	--
	Second Pilot Study June 23-25, 2014																											
	10/13/2014	--	--	--	--	--	--	2.2 J	--	--	--	1.8	3.7	0.64	--	--	2.9	--	--	--	**27**	--	**4.3**	--	--	--	--	--
	7/24/2015	--	--	--	--	--	--	--	--	--	--	1.6	3	--	--	--	3.6	--	--	--	**48**	--	**4.4**	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
	3/18/2016	--	--	--	--	--	--	--	--	--	--	0.75	--	--	--	--	5.8	--	--	--	**18**	--	--	--	--	--	--	--
MW-7	10/16/2009	--	--	--	--	--	--	--	--	--	--	0.37 J	--	--	--	--	0.45 J	--	--	--	**3.94**	--	1.43	--	--	--	--	--
	8/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
	3/18/2016	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	10/16/2009	--	--	--	--	--	--	--	--	--	--	**16.7**	3.08 J	--	--	--	4.2	--	--	--	**47**	--	**3.64 J**	--	--	--	--	--
	8/27/2013	--	1.9	--	--	--	--	--	--	--	--	**9.8**	4.1	--	--	--	9.1	--	--	--	**420**	--	**24**	--	--	--	--	--
	1/3/2014	--		--	--	--	--	--	--	--	--	**8.6**	4.2	--	--	--	9.5	--	--	--	**360**	--	**23**	--	--	--	--	--
	Pilot Study January 6-8, 2014																											
	4/8/2014	--	2.2	--	--	--	--	--	--	--	--	**7.8**	2.9	--	--	--	6.1	--	--	--	**250**	--	**18**	--	--	--	--	--
	Second Pilot Study June 23-25, 2014																											
	10/13/2014	--	--	--	--	--	--	2.2 J	--	--	--	**9.9**	4.2	--	--	--	12	--	--	--	**300**	--	**24**	--	--	--	--	--
	7/24/2015	--	--	--	--	--	--	0.53 J	--	--	--	**8.9**	2.8	--	--	--	19	--	--	--	**350**	--	**33**	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
	3/18/2016	--	2.1	--	--	--	--	--	--	--	--	**8.6**	2	--	--	--	9.2	--	--	--	**180**	--	--	--	--	--	--	--

TABLE 3.3
SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES
ACME UNITED CORPORATION SITE
FREEMONT, NORTH CAROLINA
MID-ATLANTIC JOB NO.: R1849.07

Well ID	Sampling Date	Volatile Organic Compounds by SW-846 Method 8260 (µg/L)																										
		Acetone	1,1,1-Trichlorethane	1,1,2-Trichloroethane	Benzene	Bromodichloromethane	sec-Butylbenzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Ethylbenzene	Isopropylbenzene	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1, 2-Dichloroethene	Methylene Chloride	Napthalene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	Methyl Ethyl Ketone	Methyl tert-butyl ether (MTBE)
MW-8D	2/8/2012	--	--	--	--	--	--	--	--	--	--	**42**	6.08	--	--	**0.49 J**	0.53	--	--	--	--	--	--	--	--	--	--	--
	4/13/2012	--	--	--	--	--	--	--	0.78 J	--	--	**43**	6.75	--	--	--	0.63 J	--	--	--	--	--	--	--	--	--	--	--
	4/13/2012 (Dupe)	--	--	--	--	--	--	--	0.93 J	--	--	**46.7**	7.1	--	--	**0.57 J**	0.69 J	--	--	--	--	--	--	--	--	--	--	--
	8/27/2013	--	--	--	--	--	--	--	0.77	--	--	**43**	7.8	--	--	--	0.86	--	--	--	--	--	--	--	--	--	--	--
	1/3/2014	--	--	--	--	--	--	--	1.1	--	--	**46**	8	--	--	--	0.76	--	--	--	--	--	--	--	--	--	--	--
	Pilot Study January 6-8, 2014																											
	4/8/2014	--	--	--	--	--	--	--	0.91 J	--	--	**45**	7.8	--	--	**1.2 J**	0.96 J	--	--	--	--	--	--	--	--	--	9	--
	Second Pilot Study June 23-25, 2014																											
	10/13/2014	--	--	--	**1.5**	--	--	2.3 J	1.1	--	--	**29**	6.1	0.64	--	--	1.4	--	--	--	**1.5**	1.1	--	--	--	3.2	91	--
	7/24/2015	17	--	--	--	--	--	--	9.4	--	--	**12**	3.4	--	--	--	--	--	--	--	--	--		--	--	0.6 J	340	--
	ABC+ Injection on August 4-14, 2015																											
MW-9	1/20/2010	--	--	--	--	--	--	--	--	--	--	**6.25**	18.1	--	--	--	11	--	--	--	**29**	--	**10.6**	--	--	--	--	--
	1/20/2010 (Dupe)	--	--	--	--	--	--	--	--	--	--	5.6	14.6	--	--	**--**	9.85	--	--	--	**30**	--	**9.95**	--	--	--	--	--
	1/3/2014	--	--	--	--	--	--	--	--	--	--	3.4	10	--	--	--	8.4	--	--	--	**25**	--	**8.1**	--	--	--	--	--
	Pilot Study January 6-8, 2014																											
	4/8/2014	19	--	--	--	--	--	--	--	--	--	4.2	11	--	--	**1.1 J**	16	--	--	--	**24**	--	**12**	--	--	--	--	--
	Second Pilot Study June 23-25, 2014																											
	10/13/2014	--	--	--	--	--	--	--	--	--	--	3	9.8	--	--	--	15	--	--	--	**9.6**	--	**9.7**	--	--	--	1.9 J	--
	7/24/2015	--	--	--	--	--	--	--	--	--	--	3.2	9.1	--	--	--	15	--	--	--	0.4	--	**9.9**	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-10	1/20/2010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.41 J	--	--	--	**1.95**	--	1.4	--	--	--	--	--
	2/18/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1.78**	--	0.64	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-11	1/20/2010	--	--	--	--	--	--	--	--	--	--	**7.6 J**	--	--	--	--	6 J	--	--	--	**334**	--	**19.6 J**	--	--	--	--	--
	2/8/2012	--	--	--	--	--	--	--	--	--	--	0.82 J	--	--	--	--	--	--	--	--	**54.7**	--	1.88	--	--	--	--	--
	2/8/2012 (Dupe)	--	--	--	--	--	--	--	--	--	--	0.91 J	0.78 J	--	--	--	0.88 J	--	--	--	**52**	--	1.86	--	--	--	--	--
	1/3/2014	--	--	--	--	--	--	--	--	--	--	4.9	3	--	--	--	6	--	--	--	**290**	--	**16**	--	--	--	--	--
	Pilot Study January 6-8, 2014																											
	4/8/2014	--	--	--	--	--	--	--	--	--	--	**6.5**	2.8	--	--	--	7.1	--	--	--	**270**	--	**31**	--	--	--	--	--
	Second Pilot Study June 23-25, 2014																											
	10/13/2014	--	--	--	--	--	--	--	--	--	--	**9**	4.8	0.63	0.75	--	55	--	--	--	**250**	--	**71**	--	--	2.8	3.2 J	--
	7/24/2015	5.8	--	--	--	--	--	--	2	--	--	**6.9**	2	--	--	--	40	--	--	--	**170**	--	**46**	--	--	--	7.4	--
	ABC+ Injection on August 4-14, 2015																											
MW-12	2/8/2012	--	--	--	--	--	--	3.76	--	--	--	--	1.18 J	--	--	--	--	--	--	--	**111**	--	2.38	--	--	--	--	--
	8/28/2013	--	--	--	--	--	--	3.76	--	--	--	**7.8**	6.6	--	--	--	11	--	--	--	**590**	--	**22**	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
	3/18/2016	--	--	--	--	--	--	--	--	--	--	**6.9**	4.4	--	--	--	10	--	--	--	**480**	--	--	--	--	--	--	--
MW-13	2/8/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-14	2/8/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/27/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-15	2/8/2012	--	--	--	--	--	--	--	--	--	--	**14.7**	10.4	--	--	--	7.23	--	--	--	**22.6**	--	**4.39**	--	--	--	--	--
	4/13/2012	--	--	--	--	--	--	--	--	--	--	**15**	13	--	--	--	5.52	--	--	--	**21.2**	--	**3.86**	--	--	--	--	--
	8/28/2013	--	--	--	--	--	--	--	--	--	--	**16**	14	--	--	--	5	--	--	--	**34**	--	**4.8**	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
	3/18/2016	--	--	--	--	--	--	--	--	--	--	**9.9**	8.3	--	--	--	11	0.62	--	--	**17**	--	--	--	--	--	--	--
	3/18/2016 (Dupe)	--	--	--	--	--	--	--	--	--	--	**9.7**	8.2	--	--	--	10	0.62	--	--	**17**	--	--	--	--	--	--	--

TABLE 3.3
SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER SAMPLES
ACME UNITED CORPORATION SITE
FREEMONT, NORTH CAROLINA
MID-ATLANTIC JOB NO.: R1849.07

Well ID	Sampling Date	Volatile Organic Compounds by SW-846 Method 8260 (µg/L)																										
		Acetone	1,1,1-Trichlorethane	1,1,2-Trichloroethane	Benzene	Bromodichloromethane	sec-Butylbenzene	Carbon disulfide	Chloroethane	Chloroform	Chloromethane	1,1-Dichloroethane	1,1-Dichloroethene	Ethylbenzene	Isopropylbenzene	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1, 2-Dichloroethene	Methylene Chloride	Napthalene	Tetrachloroethene	Toluene	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	Methyl Ethyl Ketone	Methyl tert-butyl ether (MTBE)
MW-16	4/13/2012	--	--	--	--	--	--	--	--	--	--	2.44 J	--	--	--	--	1.4 J	--	--	--	**117**	--	**8.4**	--	--	--	--	--
	8/27/2013	--	--	--	--	--	--	--	--	--	--	**9.8**	4.2	--	--	--	12	--	--	--	**540**	--	**33**	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
	3/18/2016	--	--	--	--	--	--	--	--	--	--	1.1	--	--	--	--	10	--	--	--	**13**	--	--	--	--	--	--	--
MW-17	7/27/2012	12 J	--	--	--	--	--	--	--	11.3	--	--	--	--	--	--	--	--	0.63 J	--	--	--	--	--	--	--	--	--
	8/27/2013	13	--	--	--	--	--	--	--	11.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-18	7/24/2012	4.43 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.35 J	--
	8/28/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-19	5/31/2013	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
MW-20	5/31/2013	--	--	--	--	--	--	--	--	0.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	ABC+ Injection on August 4-14, 2015																											
NCGQS		6000	200	0.6	1	0.6	70	700	3000	70	3	6	350	600	70	0.03	70	100	5	6	0.7	600	3	400	400	500	4000	20

Notes:

NCGQS = North Carolina Groundwater Quality Standards
µg/L = micrograms per liter
B = analyte was decteded in the lab method blank at a level above the LOQ
J = estimated concentration
-- = Not detected at or above the laboratory method detection limits

Bold = number exceeds NCGQS
Dupe = Duplicate sample
LOQ = laboratory reporting limit

TABLE 3.4
SUMMARY OF VOLATILE ORGANIC COMPOUNDS DETECTED IN SURFACE WATER SAMPLES
ACME UNITED CORPORATION SITE
FREMONT, NORTH CAROLINA
MID-ATLANTIC JOB NO. R1849.07

Surface Water Sample ID	Date Sampled	Volatile Organic Compounds by SW-846 Method 8260 (µg/L)							
		Acetone	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Toluene	Trichloroethene
SS-1	2/18/12	--	0.240	--	--	--	--	--	--
	7/24/12	--	--	--	--	--	--	0.440 J	--
	8/27/13	--	--	--	--	--	--	--	--
	3/18/16	--	--	--	--	--	--	--	--
SS-2	2/8/12	--	--	--	0.300	0.260	0.770	--	--
	7/24/12	4.99 J	--	0.560 J	0.800 J	4.54	--	0.210 J	0.680 J
SS-3	2/8/12	--	--	--	0.380	0.560	1.03	--	0.640
	7/24/12	7.63 J	--	--	--	0.910 J	0.220 J	--	0.370 J
SS-4	2/8/12	--	--	0.390	0.280	0.550	1.04	--	0.670
	7/24/12	--	--	0.390 J	0.220 J	0.640 J	--	0.240 J	0.280 J
	8/27/13	--	--	0.8	0.6	0.96	1.6	0.240 J	1
	3/18/16	--	--	0.61	0.54	1.4	1.1	--	--
SS-5*	4/12/12	--	--	0.620 J	0.390 J	0.860 J	1.22	--	0.860 J
	7/24/12	4.14 J	--	--	--	--	--	--	--
	8/27/13	--	--	--	--	--	--	--	--
	3/18/16	--	--	--	--	--	--	--	--
NCSWQS Freshwater Aquatic Life		NE	NE	NE	NE	NE	NE	11	NE

Notes:

NCSWQS = North Carolina Surface Water Quality Standard (µg/L) per 15 A NCAC 2B
NE = Numerical Regulatory Standard Not Established
-- = Not Detected At or Above Laboratory Method Detection Limit
µg/L = Micrograms per Liter
* = April 12, 2012 sample location approximately 500 upstream of the subsequent SS-5 location
J = Estimated Concentration

APPENDIX A

STANDARD OPERATING PROCEDURES

Mid Atlantic
Engineering & Environmental Solutions

Groundwater Sampling Procedures

I. Sample Collection

A. Monitoring Wells

Prior to sample collection, each well is purged of three to five standing well volumes or to dryness to remove stagnant water from the well and well bore in an effort to collect samples that are representative of the water quality in the formation surrounding each well. Purging is performed either with a new, polyethylene bailer dedicated to each well, or with a decontaminated pump. Samples are retrieved from the monitoring well using the dedicated bailer. New nylon string is used on each dedicated bailer, and new nitrile sampling gloves are donned prior to purging and sampling of each well.

B. Geoprobe "Screen Point Sampler"

The screen point sampler is a "grab" sampling device that is driven into the saturated zone and a surrounding metal sheath is retracted, exposing a screen. Groundwater entering the screen is then drawn to land surface through disposable tubing that is placed through the hollow push rods. The sample is collected from the tubing into the appropriate sampling glassware.

C. Water-Supply Wells

Water samples are typically collected from the available spigot that is nearest to the well. The water is allowed to run at a high flow from the spigot for approximately 10 to 15 minutes to allow the water in the delivery lines to be purged. The sample flow is then reduced and the samples are collected directly into pre-labeled containers as described below. New nitrile sampling gloves are donned prior to sampling of each well.

D. Treatment System Influent/Effluent

Samples are typically collected from the influent or effluent of pump-and-treat groundwater remediation systems using designated sampling ports in the influent and effluent water transport lines. The water is typically allowed to run for several seconds to clear potential debris in the sampling port. The sample is then collected directly into sampling containers as described below. New nitrile sampling gloves are donned prior to sample collection.

II. Preparation for Laboratory Analysis

Groundwater samples are decanted directly into laboratory-prepared, pre-labeled, sampling containers, packed in ice, and shipped to a certified laboratory under chain-of-custody control. Laboratory analyses performed on the samples are specified on the chain-of-custody.

APPENDIX B

LABORATORY DATA REPORT AND CHAIN OF CUSTODY RECORD

Mid Atlantic
Engineering & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735
VA Certification No. 460211
DoD ELAP: L-A-B Accredited Certificate No. L2307
ISO/IEC 17025: L-A-B Accredited Certificate No. L2307

Case Narrative

04/06/2016

Mid-Atlantic Associates, Inc. - Raleigh
Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Lab Submittal Date: 03/19/2016
Prism Work Order: 6030354

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Narrative Notes:

DOC and TOC analysis was subcontracted to GCAL. Laboratory report is attached.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

Angela D. Overcash
VP Laboratory Services

Reviewed By Terri W. Cole For Angela D. Overcash
Project Manager

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Data Qualifiers Key Reference:

A	No bracketing CCV for last set of samples. NO3 was re-analyzed out of hold on the next business day and confirmed.
Aa	The pH is less than the lowest value on the nomograph, therefore pH 6.0 was used to calculate the result. Result should be considrered a minimum value.
CCV	CCV result is above the control limits. Analyte not detected in the sample. No further action taken.
DM	Sample diluted and RL increased due to the matrix.
L1	LCS recovery outside of the QC limits. LCSD recovery within the limits. No further action taken.
LH	High LCS recovery. Analyte not detected in the sample(s). No further action taken.
MC	Sample concentration too high for recovery evaluation.
BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Sample Receipt Summary

04/06/2016

Prism Work Order: 6030354

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
Trip Blank	6030354-01	Water	03/18/16	03/19/16
MW-6	6030354-02	Water	03/18/16	03/19/16
MW-7	6030354-03	Water	03/18/16	03/19/16
MW-8	6030354-04	Water	03/18/16	03/19/16
MW-12	6030354-05	Water	03/18/16	03/19/16
MW-15	6030354-06	Water	03/18/16	03/19/16
MW-16	6030354-07	Water	03/18/16	03/19/16
Duplicate	6030354-08	Water	03/18/16	03/19/16
SS#1	6030354-09	Water	03/18/16	03/19/16
SS#4	6030354-10	Water	03/18/16	03/19/16
SS#5	6030354-11	Water	03/18/16	03/19/16

Samples were received in good condition at 2.2 degrees C unless otherwise noted.

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Summary of Detections

04/06/2016

Prism Work Order: 6030354

Prism ID	Client ID	Parameter	Method	Result		Units
6030354-02	MW-6	Chloride	*9056A	15		mg/L
6030354-02	MW-6	Nitrate as N	*9056A	0.12	A	mg/L
6030354-02	MW-6	Sulfate	*9056A	27		mg/L
6030354-02	MW-6	Carbon dioxide, free	*SM4500-CO2	80		mg/L
6030354-02	MW-6	Ferrous Iron	*SM3500-Fe D	23		mg/L
6030354-02	MW-6	Sulfide	*SM4500-S F	3.6		mg/L
6030354-02	MW-6	Total Alkalinity to pH 4.5	*SM2320 B	60		mg/L
6030354-02	MW-6	Total Dissolved Solids	*SM2540 C	130		mg/L
6030354-02	MW-6	Iron	*6010D	160		mg/L
6030354-02	MW-6	Manganese	*6010D	0.11		mg/L
6030354-02	MW-6	1,1-Dichloroethane	8260B	0.75		ug/L
6030354-02	MW-6	cis-1,2-Dichloroethylene	8260B	5.8		ug/L
6030354-02	MW-6	Tetrachloroethylene	8260B	18		ug/L
6030354-03	MW-7	Chloride	*9056A	3.5		mg/L
6030354-03	MW-7	Sulfate	*9056A	24		mg/L
6030354-03	MW-7	Carbon dioxide, free	*SM4500-CO2	9.0	Aa	mg/L
6030354-03	MW-7	Ferrous Iron	*SM3500-Fe D	2.8		mg/L
6030354-03	MW-7	Iron	*6010D	23		mg/L
6030354-04	MW-8	Chloride	*9056A	24		mg/L
6030354-04	MW-8	Nitrate as N	*9056A	1.4	A	mg/L
6030354-04	MW-8	Sulfate	*9056A	50		mg/L
6030354-04	MW-8	Carbon dioxide, free	*SM4500-CO2	45	Aa	mg/L
6030354-04	MW-8	Ferrous Iron	*SM3500-Fe D	6.0		mg/L
6030354-04	MW-8	Sulfide	*SM4500-S F	2.0		mg/L
6030354-04	MW-8	Total Alkalinity to pH 4.5	*SM2320 B	20		mg/L
6030354-04	MW-8	Total Dissolved Solids	*SM2540 C	150		mg/L
6030354-04	MW-8	Iron	*6010D	7.6		mg/L
6030354-04	MW-8	1,1,1-Trichloroethane	8260B	2.1		ug/L
6030354-04	MW-8	1,1-Dichloroethane	8260B	8.6		ug/L
6030354-04	MW-8	1,1-Dichloroethylene	8260B	2.0		ug/L
6030354-04	MW-8	cis-1,2-Dichloroethylene	8260B	9.2		ug/L
6030354-04	MW-8	Tetrachloroethylene	8260B	180		ug/L
6030354-05	MW-12	Chloride	*9056A	16		mg/L
6030354-05	MW-12	Nitrate as N	*9056A	1.0	A	mg/L
6030354-05	MW-12	Sulfate	*9056A	48		mg/L
6030354-05	MW-12	Carbon dioxide, free	*SM4500-CO2	45	Aa	mg/L
6030354-05	MW-12	Ferrous Iron	*SM3500-Fe D	6.5		mg/L
6030354-05	MW-12	Total Alkalinity to pH 4.5	*SM2320 B	22		mg/L
6030354-05	MW-12	Total Dissolved Solids	*SM2540 C	130		mg/L
6030354-05	MW-12	Iron	*6010D	31		mg/L
6030354-05	MW-12	Manganese	*6010D	0.014		mg/L
6030354-05	MW-12	1,1-Dichloroethane	8260B	6.9		ug/L
6030354-05	MW-12	1,1-Dichloroethylene	8260B	4.4		ug/L
6030354-05	MW-12	cis-1,2-Dichloroethylene	8260B	10		ug/L

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Summary of Detections

04/06/2016

Prism Work Order: 6030354

Prism ID	Client ID	Parameter	Method	Result		Units
6030354-05	MW-12	Tetrachloroethylene	8260B	480		ug/L
6030354-06	MW-15	Chloride	*9056A	31		mg/L
6030354-06	MW-15	Nitrate as N	*9056A	0.34	A	mg/L
6030354-06	MW-15	Sulfate	*9056A	67		mg/L
6030354-06	MW-15	Carbon dioxide, free	*SM4500-CO2	20	Aa	mg/L
6030354-06	MW-15	Ferrous Iron	*SM3500-Fe D	0.21		mg/L
6030354-06	MW-15	Total Alkalinity to pH 4.5	*SM2320 B	9.7		mg/L
6030354-06	MW-15	Total Dissolved Solids	*SM2540 C	220		mg/L
6030354-06	MW-15	Iron	*6010D	17		mg/L
6030354-06	MW-15	Manganese	*6010D	0.026		mg/L
6030354-06	MW-15	1,1-Dichloroethane	8260B	9.9		ug/L
6030354-06	MW-15	1,1-Dichloroethylene	8260B	8.3		ug/L
6030354-06	MW-15	cis-1,2-Dichloroethylene	8260B	11		ug/L
6030354-06	MW-15	Tetrachloroethylene	8260B	17		ug/L
6030354-06	MW-15	trans-1,2-Dichloroethylene	8260B	0.62		ug/L
6030354-07	MW-16	Chloride	*9056A	31		mg/L
6030354-07	MW-16	Nitrate as N	*9056A	0.21	A	mg/L
6030354-07	MW-16	Sulfate	*9056A	61		mg/L
6030354-07	MW-16	Carbon dioxide, free	*SM4500-CO2	20	Aa	mg/L
6030354-07	MW-16	Total Alkalinity to pH 4.5	*SM2320 B	8.4		mg/L
6030354-07	MW-16	Total Dissolved Solids	*SM2540 C	160		mg/L
6030354-07	MW-16	Iron	*6010D	33		mg/L
6030354-07	MW-16	Manganese	*6010D	0.021		mg/L
6030354-07	MW-16	1,1-Dichloroethane	8260B	1.1		ug/L
6030354-07	MW-16	cis-1,2-Dichloroethylene	8260B	10		ug/L
6030354-07	MW-16	Tetrachloroethylene	8260B	13		ug/L
6030354-08	Duplicate	1,1-Dichloroethane	8260B	9.7		ug/L
6030354-08	Duplicate	1,1-Dichloroethylene	8260B	8.2		ug/L
6030354-08	Duplicate	cis-1,2-Dichloroethylene	8260B	10		ug/L
6030354-08	Duplicate	Tetrachloroethylene	8260B	17		ug/L
6030354-08	Duplicate	trans-1,2-Dichloroethylene	8260B	0.62		ug/L
6030354-10	SS#4	1,1-Dichloroethane	8260B	0.61		ug/L
6030354-10	SS#4	1,1-Dichloroethylene	8260B	0.54		ug/L
6030354-10	SS#4	cis-1,2-Dichloroethylene	8260B	1.4		ug/L
6030354-10	SS#4	Tetrachloroethylene	8260B	1.1		ug/L

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 6030354-01
Prism Work Order: 6030354
Time Collected: 03/18/16 00:00
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 16:45	KDM	P6C0452
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 16:45	KDM	P6C0452
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/24/16 16:45	KDM	P6C0452
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 16:45	KDM	P6C0452
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	3/24/16 16:45	KDM	P6C0452
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	3/24/16 16:45	KDM	P6C0452
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 16:45	KDM	P6C0452
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/24/16 16:45	KDM	P6C0452
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/24/16 16:45	KDM	P6C0452
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/24/16 16:45	KDM	P6C0452
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 16:45	KDM	P6C0452
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/24/16 16:45	KDM	P6C0452
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 16:45	KDM	P6C0452
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 16:45	KDM	P6C0452
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 16:45	KDM	P6C0452
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 16:45	KDM	P6C0452
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 16:45	KDM	P6C0452
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 16:45	KDM	P6C0452
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/24/16 16:45	KDM	P6C0452
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 16:45	KDM	P6C0452
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/24/16 16:45	KDM	P6C0452
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 16:45	KDM	P6C0452
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 16:45	KDM	P6C0452
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/24/16 16:45	KDM	P6C0452
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/24/16 16:45	KDM	P6C0452
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/24/16 16:45	KDM	P6C0452
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/24/16 16:45	KDM	P6C0452
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/24/16 16:45	KDM	P6C0452
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/24/16 16:45	KDM	P6C0452
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/24/16 16:45	KDM	P6C0452
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 16:45	KDM	P6C0452
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/24/16 16:45	KDM	P6C0452
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/24/16 16:45	KDM	P6C0452
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/24/16 16:45	KDM	P6C0452
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 16:45	KDM	P6C0452
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 16:45	KDM	P6C0452
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/24/16 16:45	KDM	P6C0452
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 16:45	KDM	P6C0452
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 16:45	KDM	P6C0452
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	3/24/16 16:45	KDM	P6C0452
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 16:45	KDM	P6C0452
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/24/16 16:45	KDM	P6C0452

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: Trip Blank
Prism Sample ID: 6030354-01
Prism Work Order: 6030354
Time Collected: 03/18/16 00:00
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/24/16 16:45	KDM	P6C0452
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/24/16 16:45	KDM	P6C0452
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 16:45	KDM	P6C0452
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/24/16 16:45	KDM	P6C0452
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 16:45	KDM	P6C0452
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 16:45	KDM	P6C0452
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/24/16 16:45	KDM	P6C0452
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/24/16 16:45	KDM	P6C0452
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/24/16 16:45	KDM	P6C0452
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/24/16 16:45	KDM	P6C0452
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/24/16 16:45	KDM	P6C0452
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/24/16 16:45	KDM	P6C0452
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/24/16 16:45	KDM	P6C0452
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/24/16 16:45	KDM	P6C0452
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/24/16 16:45	KDM	P6C0452
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 16:45	KDM	P6C0452
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 16:45	KDM	P6C0452
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/24/16 16:45	KDM	P6C0452
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/24/16 16:45	KDM	P6C0452
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	3/24/16 16:45	KDM	P6C0452
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 16:45	KDM	P6C0452
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	3/24/16 16:45	KDM	P6C0452
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/24/16 16:45	KDM	P6C0452
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/24/16 16:45	KDM	P6C0452
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 16:45	KDM	P6C0452
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/24/16 16:45	KDM	P6C0452
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/24/16 16:45	KDM	P6C0452

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*101 %*	*75-129*
Toluene-d8	*102 %*	*77-123*

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Laboratory Report

04/06/2016

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-6
Prism Sample ID: 6030354-02
Prism Work Order: 6030354
Time Collected: 03/18/16 08:40
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**15**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**3/21/16 18:56**	**CDL**	**P6C0420**
Nitrate as N	**0.12 A**	**mg/L**	**0.10**	**0.018**	**1**	***9056A**	**3/19/16 9:15**	**CDE**	**P6C0324**
Sulfate	**27**	**mg/L**	**1.0**	**0.24**	**1**	***9056A**	**3/21/16 18:56**	**CDL**	**P6C0420**
General Chemistry Parameters									
Carbon dioxide, free	**80**	**mg/L**	**0.10**	**0.10**	**1**	***SM4500-CO2**	**3/28/16 9:00**	**SLS**	**P6C0457**
Ferrous Iron	**23**	**mg/L**	**2.0**	**0.22**	**10**	***SM3500-Fe D**	**3/19/16 10:40**	**EGC**	**P6C0345**
Sulfide	**3.6**	**mg/L**	**2.0**	**0.83**	**1**	***SM4500-S F**	**3/22/16 14:00**	**CDL**	**P6C0368**
Total Alkalinity to pH 4.5	**60**	**mg/L**	**5.0**	**0.77**	**1**	***SM2320 B**	**3/23/16 9:30**	**CLB**	**P6C0364**
Total Dissolved Solids	**130**	**mg/L**	**50**	**1.4**	**1**	***SM2540 C**	**3/21/16 16:35**	**EGC**	**P6C0356**
Total Metals									
Iron	**160**	**mg/L**	**0.10**	**0.011**	**1**	***6010D**	**3/22/16 15:54**	**BGM**	**P6C0357**
Manganese	**0.11**	**mg/L**	**0.010**	**0.0016**	**1**	***6010D**	**3/22/16 15:54**	**BGM**	**P6C0357**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 17:19	KDM	P6C0452
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 17:19	KDM	P6C0452
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/24/16 17:19	KDM	P6C0452
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 17:19	KDM	P6C0452
1,1-Dichloroethane	**0.75**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/24/16 17:19**	**KDM**	**P6C0452**
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	3/24/16 17:19	KDM	P6C0452
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 17:19	KDM	P6C0452
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/24/16 17:19	KDM	P6C0452
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/24/16 17:19	KDM	P6C0452
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/24/16 17:19	KDM	P6C0452
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 17:19	KDM	P6C0452
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/24/16 17:19	KDM	P6C0452
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 17:19	KDM	P6C0452
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 17:19	KDM	P6C0452
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 17:19	KDM	P6C0452
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 17:19	KDM	P6C0452
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 17:19	KDM	P6C0452
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 17:19	KDM	P6C0452
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/24/16 17:19	KDM	P6C0452
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 17:19	KDM	P6C0452
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/24/16 17:19	KDM	P6C0452
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 17:19	KDM	P6C0452
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 17:19	KDM	P6C0452
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/24/16 17:19	KDM	P6C0452
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/24/16 17:19	KDM	P6C0452
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/24/16 17:19	KDM	P6C0452
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/24/16 17:19	KDM	P6C0452
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/24/16 17:19	KDM	P6C0452

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Laboratory Report

04/06/2016

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-6
Prism Sample ID: 6030354-02
Prism Work Order: 6030354
Time Collected: 03/18/16 08:40
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/24/16 17:19	KDM	P6C0452
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/24/16 17:19	KDM	P6C0452
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 17:19	KDM	P6C0452
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/24/16 17:19	KDM	P6C0452
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/24/16 17:19	KDM	P6C0452
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/24/16 17:19	KDM	P6C0452
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 17:19	KDM	P6C0452
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 17:19	KDM	P6C0452
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/24/16 17:19	KDM	P6C0452
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 17:19	KDM	P6C0452
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 17:19	KDM	P6C0452
cis-1,2-Dichloroethylene	**5.8**	**ug/L**	**0.50**	**0.056**	**1**	**8260B**	**3/24/16 17:19**	**KDM**	**P6C0452**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 17:19	KDM	P6C0452
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/24/16 17:19	KDM	P6C0452
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/24/16 17:19	KDM	P6C0452
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/24/16 17:19	KDM	P6C0452
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 17:19	KDM	P6C0452
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/24/16 17:19	KDM	P6C0452
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 17:19	KDM	P6C0452
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 17:19	KDM	P6C0452
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/24/16 17:19	KDM	P6C0452
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/24/16 17:19	KDM	P6C0452
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/24/16 17:19	KDM	P6C0452
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/24/16 17:19	KDM	P6C0452
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/24/16 17:19	KDM	P6C0452
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/24/16 17:19	KDM	P6C0452
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/24/16 17:19	KDM	P6C0452
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/24/16 17:19	KDM	P6C0452
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/24/16 17:19	KDM	P6C0452
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 17:19	KDM	P6C0452
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 17:19	KDM	P6C0452
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/24/16 17:19	KDM	P6C0452
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/24/16 17:19	KDM	P6C0452
Tetrachloroethylene	**18**	**ug/L**	**0.50**	**0.098**	**1**	**8260B**	**3/24/16 17:19**	**KDM**	**P6C0452**
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 17:19	KDM	P6C0452
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	3/24/16 17:19	KDM	P6C0452
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/24/16 17:19	KDM	P6C0452
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/24/16 17:19	KDM	P6C0452
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 17:19	KDM	P6C0452
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/24/16 17:19	KDM	P6C0452
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/24/16 17:19	KDM	P6C0452

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*80-124*

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-6
Prism Sample ID: 6030354-02
Prism Work Order: 6030354
Time Collected: 03/18/16 08:40
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*101 %*	*75-129*	
			Toluene-d8				*104 %*	*77-123*	

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-7
Prism Sample ID: 6030354-03
Prism Work Order: 6030354
Time Collected: 03/18/16 09:30
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**3.5**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**3/21/16 19:13**	**CDL**	**P6C0420**
Nitrate as N	BRL A	mg/L	0.10	0.018	1	*9056A	3/19/16 9:31	CDE	P6C0324
Sulfate	**24**	**mg/L**	**1.0**	**0.24**	**1**	***9056A**	**3/21/16 19:13**	**CDL**	**P6C0420**
General Chemistry Parameters									
Carbon dioxide, free	**9.0 Aa**	**mg/L**	**0.10**	**0.10**	**1**	***SM4500-CO2**	**3/28/16 9:00**	**SLS**	**P6C0457**
Ferrous Iron	**2.8**	**mg/L**	**0.40**	**0.044**	**2**	***SM3500-Fe D**	**3/19/16 10:40**	**EGC**	**P6C0345**
Sulfide	BRL	mg/L	2.0	0.83	1	*SM4500-S F	3/22/16 14:00	CDL	P6C0368
Total Alkalinity to pH 4.5	BRL	mg/L	5.0	0.77	1	*SM2320 B	3/23/16 9:30	CLB	P6C0364
Total Dissolved Solids	BRL	mg/L	50	1.4	1	*SM2540 C	3/21/16 16:35	EGC	P6C0356
Total Metals									
Iron	**23**	**mg/L**	**0.10**	**0.011**	**1**	***6010D**	**3/22/16 16:18**	**BGM**	**P6C0357**
Manganese	BRL	mg/L	0.010	0.0016	1	*6010D	3/22/16 16:18	BGM	P6C0357
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 17:53	KDM	P6C0452
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 17:53	KDM	P6C0452
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/24/16 17:53	KDM	P6C0452
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 17:53	KDM	P6C0452
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	3/24/16 17:53	KDM	P6C0452
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	3/24/16 17:53	KDM	P6C0452
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 17:53	KDM	P6C0452
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/24/16 17:53	KDM	P6C0452
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/24/16 17:53	KDM	P6C0452
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/24/16 17:53	KDM	P6C0452
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 17:53	KDM	P6C0452
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/24/16 17:53	KDM	P6C0452
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 17:53	KDM	P6C0452
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 17:53	KDM	P6C0452
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 17:53	KDM	P6C0452
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 17:53	KDM	P6C0452
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 17:53	KDM	P6C0452
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 17:53	KDM	P6C0452
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/24/16 17:53	KDM	P6C0452
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 17:53	KDM	P6C0452
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/24/16 17:53	KDM	P6C0452
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 17:53	KDM	P6C0452
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 17:53	KDM	P6C0452
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/24/16 17:53	KDM	P6C0452
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/24/16 17:53	KDM	P6C0452
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/24/16 17:53	KDM	P6C0452
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/24/16 17:53	KDM	P6C0452
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/24/16 17:53	KDM	P6C0452

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-7
Prism Sample ID: 6030354-03
Prism Work Order: 6030354
Time Collected: 03/18/16 09:30
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/24/16 17:53	KDM	P6C0452
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/24/16 17:53	KDM	P6C0452
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 17:53	KDM	P6C0452
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/24/16 17:53	KDM	P6C0452
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/24/16 17:53	KDM	P6C0452
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/24/16 17:53	KDM	P6C0452
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 17:53	KDM	P6C0452
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 17:53	KDM	P6C0452
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/24/16 17:53	KDM	P6C0452
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 17:53	KDM	P6C0452
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 17:53	KDM	P6C0452
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	3/24/16 17:53	KDM	P6C0452
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 17:53	KDM	P6C0452
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/24/16 17:53	KDM	P6C0452
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/24/16 17:53	KDM	P6C0452
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/24/16 17:53	KDM	P6C0452
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 17:53	KDM	P6C0452
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/24/16 17:53	KDM	P6C0452
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 17:53	KDM	P6C0452
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 17:53	KDM	P6C0452
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/24/16 17:53	KDM	P6C0452
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/24/16 17:53	KDM	P6C0452
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/24/16 17:53	KDM	P6C0452
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/24/16 17:53	KDM	P6C0452
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/24/16 17:53	KDM	P6C0452
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/24/16 17:53	KDM	P6C0452
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/24/16 17:53	KDM	P6C0452
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/24/16 17:53	KDM	P6C0452
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/24/16 17:53	KDM	P6C0452
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 17:53	KDM	P6C0452
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 17:53	KDM	P6C0452
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/24/16 17:53	KDM	P6C0452
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/24/16 17:53	KDM	P6C0452
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	3/24/16 17:53	KDM	P6C0452
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 17:53	KDM	P6C0452
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	3/24/16 17:53	KDM	P6C0452
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/24/16 17:53	KDM	P6C0452
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/24/16 17:53	KDM	P6C0452
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 17:53	KDM	P6C0452
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/24/16 17:53	KDM	P6C0452
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/24/16 17:53	KDM	P6C0452

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*108 %*	*80-124*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-7
Prism Sample ID: 6030354-03
Prism Work Order: 6030354
Time Collected: 03/18/16 09:30
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*99 %*	*75-129*	
			Toluene-d8				*103 %*	*77-123*	

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Laboratory Report

04/06/2016

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 6030354-04
Prism Work Order: 6030354
Time Collected: 03/18/16 11:32
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**24**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**3/21/16 19:29**	**CDL**	**P6C0420**
Nitrate as N	**1.4 A**	**mg/L**	**0.10**	**0.018**	**1**	***9056A**	**3/19/16 9:48**	**CDE**	**P6C0324**
Sulfate	**50**	**mg/L**	**1.0**	**0.24**	**1**	***9056A**	**3/21/16 19:29**	**CDL**	**P6C0420**
General Chemistry Parameters									
Carbon dioxide, free	**45 Aa**	**mg/L**	**0.10**	**0.10**	**1**	***SM4500-CO2**	**3/28/16 9:00**	**SLS**	**P6C0457**
Ferrous Iron	**6.0**	**mg/L**	**2.0**	**0.22**	**10**	***SM3500-Fe D**	**3/19/16 10:40**	**EGC**	**P6C0345**
Sulfide	**2.0**	**mg/L**	**2.0**	**0.83**	**1**	***SM4500-S F**	**3/22/16 14:00**	**CDL**	**P6C0368**
Total Alkalinity to pH 4.5	**20**	**mg/L**	**5.0**	**0.77**	**1**	***SM2320 B**	**3/23/16 9:30**	**CLB**	**P6C0364**
Total Dissolved Solids	**150**	**mg/L**	**50**	**1.4**	**1**	***SM2540 C**	**3/21/16 16:55**	**EGC**	**P6C0356**
Total Metals									
Iron	**7.6**	**mg/L**	**0.10**	**0.011**	**1**	***6010D**	**3/22/16 16:26**	**BGM**	**P6C0357**
Manganese	BRL	mg/L	0.010	0.0016	1	*6010D	3/22/16 16:26	BGM	P6C0357
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 20:43	KDM	P6C0452
1,1,1-Trichloroethane	**2.1**	**ug/L**	**0.50**	**0.061**	**1**	**8260B**	**3/24/16 20:43**	**KDM**	**P6C0452**
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/24/16 20:43	KDM	P6C0452
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 20:43	KDM	P6C0452
1,1-Dichloroethane	**8.6**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/24/16 20:43**	**KDM**	**P6C0452**
1,1-Dichloroethylene	**2.0**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/24/16 20:43**	**KDM**	**P6C0452**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 20:43	KDM	P6C0452
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/24/16 20:43	KDM	P6C0452
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/24/16 20:43	KDM	P6C0452
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/24/16 20:43	KDM	P6C0452
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 20:43	KDM	P6C0452
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/24/16 20:43	KDM	P6C0452
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 20:43	KDM	P6C0452
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 20:43	KDM	P6C0452
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 20:43	KDM	P6C0452
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 20:43	KDM	P6C0452
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 20:43	KDM	P6C0452
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 20:43	KDM	P6C0452
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/24/16 20:43	KDM	P6C0452
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 20:43	KDM	P6C0452
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/24/16 20:43	KDM	P6C0452
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 20:43	KDM	P6C0452
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 20:43	KDM	P6C0452
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/24/16 20:43	KDM	P6C0452
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/24/16 20:43	KDM	P6C0452
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/24/16 20:43	KDM	P6C0452
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/24/16 20:43	KDM	P6C0452
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/24/16 20:43	KDM	P6C0452

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 6030354-04
Prism Work Order: 6030354
Time Collected: 03/18/16 11:32
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/24/16 20:43	KDM	P6C0452
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/24/16 20:43	KDM	P6C0452
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 20:43	KDM	P6C0452
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/24/16 20:43	KDM	P6C0452
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/24/16 20:43	KDM	P6C0452
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/24/16 20:43	KDM	P6C0452
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 20:43	KDM	P6C0452
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 20:43	KDM	P6C0452
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/24/16 20:43	KDM	P6C0452
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 20:43	KDM	P6C0452
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 20:43	KDM	P6C0452
cis-1,2-Dichloroethylene	**9.2**	**ug/L**	**0.50**	**0.056**	**1**	**8260B**	**3/24/16 20:43**	**KDM**	**P6C0452**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 20:43	KDM	P6C0452
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/24/16 20:43	KDM	P6C0452
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/24/16 20:43	KDM	P6C0452
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/24/16 20:43	KDM	P6C0452
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 20:43	KDM	P6C0452
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/24/16 20:43	KDM	P6C0452
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 20:43	KDM	P6C0452
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 20:43	KDM	P6C0452
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/24/16 20:43	KDM	P6C0452
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/24/16 20:43	KDM	P6C0452
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/24/16 20:43	KDM	P6C0452
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/24/16 20:43	KDM	P6C0452
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/24/16 20:43	KDM	P6C0452
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/24/16 20:43	KDM	P6C0452
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/24/16 20:43	KDM	P6C0452
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/24/16 20:43	KDM	P6C0452
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/24/16 20:43	KDM	P6C0452
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 20:43	KDM	P6C0452
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 20:43	KDM	P6C0452
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/24/16 20:43	KDM	P6C0452
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/24/16 20:43	KDM	P6C0452
Tetrachloroethylene	**180**	**ug/L**	**5.0**	**0.98**	**10**	**8260B**	**3/24/16 21:17**	**KDM**	**P6C0452**
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 20:43	KDM	P6C0452
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	3/24/16 20:43	KDM	P6C0452
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/24/16 20:43	KDM	P6C0452
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/24/16 20:43	KDM	P6C0452
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 20:43	KDM	P6C0452
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/24/16 20:43	KDM	P6C0452
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/24/16 20:43	KDM	P6C0452

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*80-124*

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-8
Prism Sample ID: 6030354-04
Prism Work Order: 6030354
Time Collected: 03/18/16 11:32
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*99 %*	*75-129*	
			Toluene-d8				*103 %*	*77-123*	

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Laboratory Report

04/06/2016

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-12
Prism Sample ID: 6030354-05
Prism Work Order: 6030354
Time Collected: 03/18/16 11:00
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**16**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**3/21/16 19:46**	**CDL**	**P6C0420**
Nitrate as N	**1.0 A**	**mg/L**	**0.10**	**0.018**	**1**	***9056A**	**3/19/16 10:05**	**CDE**	**P6C0324**
Sulfate	**48**	**mg/L**	**1.0**	**0.24**	**1**	***9056A**	**3/21/16 19:46**	**CDL**	**P6C0420**
General Chemistry Parameters									
Carbon dioxide, free	**45 Aa**	**mg/L**	**0.10**	**0.10**	**1**	***SM4500-CO2**	**3/28/16 9:00**	**SLS**	**P6C0457**
Ferrous Iron	**6.5**	**mg/L**	**2.0**	**0.22**	**10**	***SM3500-Fe D**	**3/19/16 10:40**	**EGC**	**P6C0345**
Sulfide	BRL	mg/L	2.0	0.83	1	*SM4500-S F	3/22/16 14:00	CDL	P6C0368
Total Alkalinity to pH 4.5	**22**	**mg/L**	**5.0**	**0.77**	**1**	***SM2320 B**	**3/23/16 9:30**	**CLB**	**P6C0364**
Total Dissolved Solids	**130**	**mg/L**	**50**	**1.4**	**1**	***SM2540 C**	**3/21/16 16:55**	**EGC**	**P6C0356**
Total Metals									
Iron	**31**	**mg/L**	**0.10**	**0.011**	**1**	***6010D**	**3/22/16 16:34**	**BGM**	**P6C0357**
Manganese	**0.014**	**mg/L**	**0.010**	**0.0016**	**1**	***6010D**	**3/22/16 16:34**	**BGM**	**P6C0357**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 21:51	KDM	P6C0452
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 21:51	KDM	P6C0452
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/24/16 21:51	KDM	P6C0452
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 21:51	KDM	P6C0452
1,1-Dichloroethane	**6.9**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/24/16 21:51**	**KDM**	**P6C0452**
1,1-Dichloroethylene	**4.4**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/24/16 21:51**	**KDM**	**P6C0452**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 21:51	KDM	P6C0452
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/24/16 21:51	KDM	P6C0452
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/24/16 21:51	KDM	P6C0452
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/24/16 21:51	KDM	P6C0452
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 21:51	KDM	P6C0452
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/24/16 21:51	KDM	P6C0452
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 21:51	KDM	P6C0452
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 21:51	KDM	P6C0452
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 21:51	KDM	P6C0452
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 21:51	KDM	P6C0452
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 21:51	KDM	P6C0452
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 21:51	KDM	P6C0452
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/24/16 21:51	KDM	P6C0452
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 21:51	KDM	P6C0452
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/24/16 21:51	KDM	P6C0452
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 21:51	KDM	P6C0452
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 21:51	KDM	P6C0452
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/24/16 21:51	KDM	P6C0452
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/24/16 21:51	KDM	P6C0452
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/24/16 21:51	KDM	P6C0452
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/24/16 21:51	KDM	P6C0452
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/24/16 21:51	KDM	P6C0452

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-12
Prism Sample ID: 6030354-05
Prism Work Order: 6030354
Time Collected: 03/18/16 11:00
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/24/16 21:51	KDM	P6C0452
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/24/16 21:51	KDM	P6C0452
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 21:51	KDM	P6C0452
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/24/16 21:51	KDM	P6C0452
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/24/16 21:51	KDM	P6C0452
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/24/16 21:51	KDM	P6C0452
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 21:51	KDM	P6C0452
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 21:51	KDM	P6C0452
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/24/16 21:51	KDM	P6C0452
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 21:51	KDM	P6C0452
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 21:51	KDM	P6C0452
cis-1,2-Dichloroethylene	**10**	**ug/L**	**0.50**	**0.056**	**1**	**8260B**	**3/24/16 21:51**	**KDM**	**P6C0452**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 21:51	KDM	P6C0452
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/24/16 21:51	KDM	P6C0452
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/24/16 21:51	KDM	P6C0452
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/24/16 21:51	KDM	P6C0452
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 21:51	KDM	P6C0452
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/24/16 21:51	KDM	P6C0452
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 21:51	KDM	P6C0452
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 21:51	KDM	P6C0452
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/24/16 21:51	KDM	P6C0452
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/24/16 21:51	KDM	P6C0452
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/24/16 21:51	KDM	P6C0452
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/24/16 21:51	KDM	P6C0452
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/24/16 21:51	KDM	P6C0452
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/24/16 21:51	KDM	P6C0452
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/24/16 21:51	KDM	P6C0452
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/24/16 21:51	KDM	P6C0452
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/24/16 21:51	KDM	P6C0452
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 21:51	KDM	P6C0452
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 21:51	KDM	P6C0452
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/24/16 21:51	KDM	P6C0452
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/24/16 21:51	KDM	P6C0452
Tetrachloroethylene	**480**	**ug/L**	**5.0**	**0.98**	**10**	**8260B**	**3/24/16 22:26**	**KDM**	**P6C0452**
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 21:51	KDM	P6C0452
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	3/24/16 21:51	KDM	P6C0452
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/24/16 21:51	KDM	P6C0452
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/24/16 21:51	KDM	P6C0452
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 21:51	KDM	P6C0452
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/24/16 21:51	KDM	P6C0452
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/24/16 21:51	KDM	P6C0452

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-12
Prism Sample ID: 6030354-05
Prism Work Order: 6030354
Time Collected: 03/18/16 11:00
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*99 %*	*75-129*	
			Toluene-d8				*103 %*	*77-123*	

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Laboratory Report

04/06/2016

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-15
Prism Sample ID: 6030354-06
Prism Work Order: 6030354
Time Collected: 03/18/16 10:10
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**31**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**3/21/16 20:03**	**CDL**	**P6C0420**
Nitrate as N	**0.34 A**	**mg/L**	**0.10**	**0.018**	**1**	***9056A**	**3/19/16 10:22**	**CDE**	**P6C0324**
Sulfate	**67**	**mg/L**	**1.0**	**0.24**	**1**	***9056A**	**3/21/16 20:03**	**CDL**	**P6C0420**
General Chemistry Parameters									
Carbon dioxide, free	**20 Aa**	**mg/L**	**0.10**	**0.10**	**1**	***SM4500-CO2**	**3/28/16 9:00**	**SLS**	**P6C0457**
Ferrous Iron	**0.21**	**mg/L**	**0.20**	**0.022**	**1**	***SM3500-Fe D**	**3/19/16 10:40**	**EGC**	**P6C0345**
Sulfide	BRL	mg/L	2.0	0.83	1	*SM4500-S F	3/22/16 14:00	CDL	P6C0368
Total Alkalinity to pH 4.5	**9.7**	**mg/L**	**5.0**	**0.77**	**1**	***SM2320 B**	**3/23/16 9:30**	**CLB**	**P6C0364**
Total Dissolved Solids	**220**	**mg/L**	**50**	**1.4**	**1**	***SM2540 C**	**3/21/16 16:55**	**EGC**	**P6C0356**
Total Metals									
Iron	**17**	**mg/L**	**0.10**	**0.011**	**1**	***6010D**	**3/22/16 16:41**	**BGM**	**P6C0357**
Manganese	**0.026**	**mg/L**	**0.010**	**0.0016**	**1**	***6010D**	**3/22/16 16:41**	**BGM**	**P6C0357**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 18:27	KDM	P6C0452
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 18:27	KDM	P6C0452
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/24/16 18:27	KDM	P6C0452
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 18:27	KDM	P6C0452
1,1-Dichloroethane	**9.9**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/24/16 18:27**	**KDM**	**P6C0452**
1,1-Dichloroethylene	**8.3**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/24/16 18:27**	**KDM**	**P6C0452**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 18:27	KDM	P6C0452
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/24/16 18:27	KDM	P6C0452
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/24/16 18:27	KDM	P6C0452
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/24/16 18:27	KDM	P6C0452
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 18:27	KDM	P6C0452
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/24/16 18:27	KDM	P6C0452
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 18:27	KDM	P6C0452
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 18:27	KDM	P6C0452
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 18:27	KDM	P6C0452
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 18:27	KDM	P6C0452
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 18:27	KDM	P6C0452
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 18:27	KDM	P6C0452
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/24/16 18:27	KDM	P6C0452
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 18:27	KDM	P6C0452
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/24/16 18:27	KDM	P6C0452
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 18:27	KDM	P6C0452
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 18:27	KDM	P6C0452
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/24/16 18:27	KDM	P6C0452
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/24/16 18:27	KDM	P6C0452
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/24/16 18:27	KDM	P6C0452
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/24/16 18:27	KDM	P6C0452
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/24/16 18:27	KDM	P6C0452

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-15
Prism Sample ID: 6030354-06
Prism Work Order: 6030354
Time Collected: 03/18/16 10:10
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/24/16 18:27	KDM	P6C0452
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/24/16 18:27	KDM	P6C0452
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 18:27	KDM	P6C0452
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/24/16 18:27	KDM	P6C0452
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/24/16 18:27	KDM	P6C0452
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/24/16 18:27	KDM	P6C0452
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 18:27	KDM	P6C0452
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 18:27	KDM	P6C0452
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/24/16 18:27	KDM	P6C0452
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 18:27	KDM	P6C0452
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 18:27	KDM	P6C0452
cis-1,2-Dichloroethylene	**11**	**ug/L**	**0.50**	**0.056**	**1**	**8260B**	**3/24/16 18:27**	**KDM**	**P6C0452**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 18:27	KDM	P6C0452
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/24/16 18:27	KDM	P6C0452
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/24/16 18:27	KDM	P6C0452
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/24/16 18:27	KDM	P6C0452
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 18:27	KDM	P6C0452
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/24/16 18:27	KDM	P6C0452
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 18:27	KDM	P6C0452
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 18:27	KDM	P6C0452
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/24/16 18:27	KDM	P6C0452
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/24/16 18:27	KDM	P6C0452
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/24/16 18:27	KDM	P6C0452
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/24/16 18:27	KDM	P6C0452
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/24/16 18:27	KDM	P6C0452
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/24/16 18:27	KDM	P6C0452
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/24/16 18:27	KDM	P6C0452
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/24/16 18:27	KDM	P6C0452
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/24/16 18:27	KDM	P6C0452
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 18:27	KDM	P6C0452
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 18:27	KDM	P6C0452
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/24/16 18:27	KDM	P6C0452
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/24/16 18:27	KDM	P6C0452
Tetrachloroethylene	**17**	**ug/L**	**0.50**	**0.098**	**1**	**8260B**	**3/24/16 18:27**	**KDM**	**P6C0452**
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 18:27	KDM	P6C0452
trans-1,2-Dichloroethylene	**0.62**	**ug/L**	**0.50**	**0.094**	**1**	**8260B**	**3/24/16 18:27**	**KDM**	**P6C0452**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/24/16 18:27	KDM	P6C0452
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/24/16 18:27	KDM	P6C0452
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 18:27	KDM	P6C0452
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/24/16 18:27	KDM	P6C0452
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/24/16 18:27	KDM	P6C0452

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*

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Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-15
Prism Sample ID: 6030354-06
Prism Work Order: 6030354
Time Collected: 03/18/16 10:10
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*101 %*	*75-129*	
			Toluene-d8				*102 %*	*77-123*	

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Laboratory Report

04/06/2016

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-16
Prism Sample ID: 6030354-07
Prism Work Order: 6030354
Time Collected: 03/18/16 11:54
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**31**	**mg/L**	**1.0**	**0.20**	**1**	***9056A**	**3/21/16 20:20**	**CDL**	**P6C0420**
Nitrate as N	**0.21 A**	**mg/L**	**0.10**	**0.018**	**1**	***9056A**	**3/19/16 10:39**	**CDE**	**P6C0324**
Sulfate	**61**	**mg/L**	**1.0**	**0.24**	**1**	***9056A**	**3/21/16 20:20**	**CDL**	**P6C0420**
General Chemistry Parameters									
Carbon dioxide, free	**20 Aa**	**mg/L**	**0.10**	**0.10**	**1**	***SM4500-CO2**	**3/28/16 9:00**	**SLS**	**P6C0457**
Ferrous Iron	BRL	mg/L	0.20	0.022	1	*SM3500-Fe D	3/19/16 10:40	EGC	P6C0345
Sulfide	BRL DM	mg/L	8.0	0.83	1	*SM4500-S F	3/22/16 14:00	CDL	P6C0368
Total Alkalinity to pH 4.5	**8.4**	**mg/L**	**5.0**	**0.77**	**1**	***SM2320 B**	**3/23/16 9:30**	**CLB**	**P6C0364**
Total Dissolved Solids	**160**	**mg/L**	**50**	**1.4**	**1**	***SM2540 C**	**3/21/16 16:55**	**EGC**	**P6C0356**
Total Metals									
Iron	**33**	**mg/L**	**0.10**	**0.011**	**1**	***6010D**	**3/22/16 16:49**	**BGM**	**P6C0357**
Manganese	**0.021**	**mg/L**	**0.010**	**0.0016**	**1**	***6010D**	**3/22/16 16:49**	**BGM**	**P6C0357**
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 19:01	KDM	P6C0452
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 19:01	KDM	P6C0452
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/24/16 19:01	KDM	P6C0452
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 19:01	KDM	P6C0452
1,1-Dichloroethane	**1.1**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/24/16 19:01**	**KDM**	**P6C0452**
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	3/24/16 19:01	KDM	P6C0452
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 19:01	KDM	P6C0452
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/24/16 19:01	KDM	P6C0452
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/24/16 19:01	KDM	P6C0452
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/24/16 19:01	KDM	P6C0452
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 19:01	KDM	P6C0452
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/24/16 19:01	KDM	P6C0452
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 19:01	KDM	P6C0452
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 19:01	KDM	P6C0452
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 19:01	KDM	P6C0452
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 19:01	KDM	P6C0452
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 19:01	KDM	P6C0452
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 19:01	KDM	P6C0452
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/24/16 19:01	KDM	P6C0452
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 19:01	KDM	P6C0452
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/24/16 19:01	KDM	P6C0452
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 19:01	KDM	P6C0452
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 19:01	KDM	P6C0452
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/24/16 19:01	KDM	P6C0452
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/24/16 19:01	KDM	P6C0452
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/24/16 19:01	KDM	P6C0452
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/24/16 19:01	KDM	P6C0452
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/24/16 19:01	KDM	P6C0452

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-16
Prism Sample ID: 6030354-07
Prism Work Order: 6030354
Time Collected: 03/18/16 11:54
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/24/16 19:01	KDM	P6C0452
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/24/16 19:01	KDM	P6C0452
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 19:01	KDM	P6C0452
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/24/16 19:01	KDM	P6C0452
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/24/16 19:01	KDM	P6C0452
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/24/16 19:01	KDM	P6C0452
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 19:01	KDM	P6C0452
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 19:01	KDM	P6C0452
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/24/16 19:01	KDM	P6C0452
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 19:01	KDM	P6C0452
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 19:01	KDM	P6C0452
cis-1,2-Dichloroethylene	**10**	**ug/L**	**0.50**	**0.056**	**1**	**8260B**	**3/24/16 19:01**	**KDM**	**P6C0452**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 19:01	KDM	P6C0452
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/24/16 19:01	KDM	P6C0452
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/24/16 19:01	KDM	P6C0452
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/24/16 19:01	KDM	P6C0452
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 19:01	KDM	P6C0452
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/24/16 19:01	KDM	P6C0452
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 19:01	KDM	P6C0452
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 19:01	KDM	P6C0452
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/24/16 19:01	KDM	P6C0452
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/24/16 19:01	KDM	P6C0452
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/24/16 19:01	KDM	P6C0452
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/24/16 19:01	KDM	P6C0452
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/24/16 19:01	KDM	P6C0452
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/24/16 19:01	KDM	P6C0452
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/24/16 19:01	KDM	P6C0452
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/24/16 19:01	KDM	P6C0452
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/24/16 19:01	KDM	P6C0452
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 19:01	KDM	P6C0452
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 19:01	KDM	P6C0452
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/24/16 19:01	KDM	P6C0452
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/24/16 19:01	KDM	P6C0452
Tetrachloroethylene	**13**	**ug/L**	**0.50**	**0.098**	**1**	**8260B**	**3/24/16 19:01**	**KDM**	**P6C0452**
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 19:01	KDM	P6C0452
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	3/24/16 19:01	KDM	P6C0452
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/24/16 19:01	KDM	P6C0452
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/24/16 19:01	KDM	P6C0452
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 19:01	KDM	P6C0452
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/24/16 19:01	KDM	P6C0452
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/24/16 19:01	KDM	P6C0452

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*108 %*	*80-124*

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: MW-16
Prism Sample ID: 6030354-07
Prism Work Order: 6030354
Time Collected: 03/18/16 11:54
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
			Dibromofluoromethane				*100 %*	*75-129*	
			Toluene-d8				*102 %*	*77-123*	

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 6030354-08
Prism Work Order: 6030354
Time Collected: 03/18/16 10:15
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 19:35	KDM	P6C0452
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 19:35	KDM	P6C0452
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/24/16 19:35	KDM	P6C0452
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 19:35	KDM	P6C0452
1,1-Dichloroethane	**9.7**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/24/16 19:35**	**KDM**	**P6C0452**
1,1-Dichloroethylene	**8.2**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/24/16 19:35**	**KDM**	**P6C0452**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 19:35	KDM	P6C0452
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/24/16 19:35	KDM	P6C0452
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/24/16 19:35	KDM	P6C0452
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/24/16 19:35	KDM	P6C0452
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 19:35	KDM	P6C0452
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/24/16 19:35	KDM	P6C0452
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 19:35	KDM	P6C0452
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 19:35	KDM	P6C0452
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 19:35	KDM	P6C0452
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 19:35	KDM	P6C0452
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 19:35	KDM	P6C0452
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 19:35	KDM	P6C0452
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/24/16 19:35	KDM	P6C0452
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 19:35	KDM	P6C0452
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/24/16 19:35	KDM	P6C0452
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 19:35	KDM	P6C0452
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 19:35	KDM	P6C0452
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/24/16 19:35	KDM	P6C0452
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/24/16 19:35	KDM	P6C0452
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/24/16 19:35	KDM	P6C0452
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/24/16 19:35	KDM	P6C0452
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/24/16 19:35	KDM	P6C0452
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/24/16 19:35	KDM	P6C0452
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/24/16 19:35	KDM	P6C0452
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 19:35	KDM	P6C0452
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/24/16 19:35	KDM	P6C0452
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/24/16 19:35	KDM	P6C0452
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/24/16 19:35	KDM	P6C0452
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 19:35	KDM	P6C0452
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 19:35	KDM	P6C0452
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/24/16 19:35	KDM	P6C0452
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 19:35	KDM	P6C0452
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 19:35	KDM	P6C0452
cis-1,2-Dichloroethylene	**10**	**ug/L**	**0.50**	**0.056**	**1**	**8260B**	**3/24/16 19:35**	**KDM**	**P6C0452**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 19:35	KDM	P6C0452
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/24/16 19:35	KDM	P6C0452

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: Duplicate
Prism Sample ID: 6030354-08
Prism Work Order: 6030354
Time Collected: 03/18/16 10:15
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/24/16 19:35	KDM	P6C0452
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/24/16 19:35	KDM	P6C0452
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 19:35	KDM	P6C0452
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/24/16 19:35	KDM	P6C0452
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 19:35	KDM	P6C0452
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 19:35	KDM	P6C0452
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/24/16 19:35	KDM	P6C0452
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/24/16 19:35	KDM	P6C0452
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/24/16 19:35	KDM	P6C0452
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/24/16 19:35	KDM	P6C0452
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/24/16 19:35	KDM	P6C0452
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/24/16 19:35	KDM	P6C0452
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/24/16 19:35	KDM	P6C0452
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/24/16 19:35	KDM	P6C0452
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/24/16 19:35	KDM	P6C0452
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 19:35	KDM	P6C0452
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 19:35	KDM	P6C0452
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/24/16 19:35	KDM	P6C0452
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/24/16 19:35	KDM	P6C0452
Tetrachloroethylene	**17**	**ug/L**	**0.50**	**0.098**	**1**	**8260B**	**3/24/16 19:35**	**KDM**	**P6C0452**
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 19:35	KDM	P6C0452
trans-1,2-Dichloroethylene	**0.62**	**ug/L**	**0.50**	**0.094**	**1**	**8260B**	**3/24/16 19:35**	**KDM**	**P6C0452**
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/24/16 19:35	KDM	P6C0452
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/24/16 19:35	KDM	P6C0452
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 19:35	KDM	P6C0452
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/24/16 19:35	KDM	P6C0452
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/24/16 19:35	KDM	P6C0452

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*107 %*	*80-124*
Dibromofluoromethane	*100 %*	*75-129*
Toluene-d8	*104 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: SS#1
Prism Sample ID: 6030354-09
Prism Work Order: 6030354
Time Collected: 03/18/16 12:30
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 20:09	KDM	P6C0452
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 20:09	KDM	P6C0452
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/24/16 20:09	KDM	P6C0452
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 20:09	KDM	P6C0452
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	3/24/16 20:09	KDM	P6C0452
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	3/24/16 20:09	KDM	P6C0452
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 20:09	KDM	P6C0452
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/24/16 20:09	KDM	P6C0452
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/24/16 20:09	KDM	P6C0452
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/24/16 20:09	KDM	P6C0452
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 20:09	KDM	P6C0452
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/24/16 20:09	KDM	P6C0452
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/24/16 20:09	KDM	P6C0452
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 20:09	KDM	P6C0452
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 20:09	KDM	P6C0452
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 20:09	KDM	P6C0452
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 20:09	KDM	P6C0452
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 20:09	KDM	P6C0452
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/24/16 20:09	KDM	P6C0452
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 20:09	KDM	P6C0452
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/24/16 20:09	KDM	P6C0452
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/24/16 20:09	KDM	P6C0452
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 20:09	KDM	P6C0452
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/24/16 20:09	KDM	P6C0452
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/24/16 20:09	KDM	P6C0452
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/24/16 20:09	KDM	P6C0452
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/24/16 20:09	KDM	P6C0452
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/24/16 20:09	KDM	P6C0452
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/24/16 20:09	KDM	P6C0452
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/24/16 20:09	KDM	P6C0452
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 20:09	KDM	P6C0452
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/24/16 20:09	KDM	P6C0452
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/24/16 20:09	KDM	P6C0452
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/24/16 20:09	KDM	P6C0452
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/24/16 20:09	KDM	P6C0452
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 20:09	KDM	P6C0452
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/24/16 20:09	KDM	P6C0452
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 20:09	KDM	P6C0452
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 20:09	KDM	P6C0452
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	3/24/16 20:09	KDM	P6C0452
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/24/16 20:09	KDM	P6C0452
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/24/16 20:09	KDM	P6C0452

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: SS#1
Prism Sample ID: 6030354-09
Prism Work Order: 6030354
Time Collected: 03/18/16 12:30
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/24/16 20:09	KDM	P6C0452
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/24/16 20:09	KDM	P6C0452
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/24/16 20:09	KDM	P6C0452
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/24/16 20:09	KDM	P6C0452
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/24/16 20:09	KDM	P6C0452
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/24/16 20:09	KDM	P6C0452
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/24/16 20:09	KDM	P6C0452
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/24/16 20:09	KDM	P6C0452
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/24/16 20:09	KDM	P6C0452
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/24/16 20:09	KDM	P6C0452
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/24/16 20:09	KDM	P6C0452
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/24/16 20:09	KDM	P6C0452
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/24/16 20:09	KDM	P6C0452
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/24/16 20:09	KDM	P6C0452
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/24/16 20:09	KDM	P6C0452
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 20:09	KDM	P6C0452
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/24/16 20:09	KDM	P6C0452
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/24/16 20:09	KDM	P6C0452
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/24/16 20:09	KDM	P6C0452
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	3/24/16 20:09	KDM	P6C0452
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/24/16 20:09	KDM	P6C0452
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	3/24/16 20:09	KDM	P6C0452
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/24/16 20:09	KDM	P6C0452
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/24/16 20:09	KDM	P6C0452
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/24/16 20:09	KDM	P6C0452
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/24/16 20:09	KDM	P6C0452
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/24/16 20:09	KDM	P6C0452

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*109 %*	*80-124*
Dibromofluoromethane	*103 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: SS#4
Prism Sample ID: 6030354-10
Prism Work Order: 6030354
Time Collected: 03/18/16 10:25
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/25/16 7:31	KDM	P6C0453
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/25/16 7:31	KDM	P6C0453
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/25/16 7:31	KDM	P6C0453
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/25/16 7:31	KDM	P6C0453
1,1-Dichloroethane	**0.61**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/25/16 7:31**	**KDM**	**P6C0453**
1,1-Dichloroethylene	**0.54**	**ug/L**	**0.50**	**0.083**	**1**	**8260B**	**3/25/16 7:31**	**KDM**	**P6C0453**
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/25/16 7:31	KDM	P6C0453
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/25/16 7:31	KDM	P6C0453
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/25/16 7:31	KDM	P6C0453
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/25/16 7:31	KDM	P6C0453
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/25/16 7:31	KDM	P6C0453
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/25/16 7:31	KDM	P6C0453
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/25/16 7:31	KDM	P6C0453
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/25/16 7:31	KDM	P6C0453
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/25/16 7:31	KDM	P6C0453
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/25/16 7:31	KDM	P6C0453
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/25/16 7:31	KDM	P6C0453
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/25/16 7:31	KDM	P6C0453
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/25/16 7:31	KDM	P6C0453
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/25/16 7:31	KDM	P6C0453
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/25/16 7:31	KDM	P6C0453
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/25/16 7:31	KDM	P6C0453
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/25/16 7:31	KDM	P6C0453
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/25/16 7:31	KDM	P6C0453
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/25/16 7:31	KDM	P6C0453
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/25/16 7:31	KDM	P6C0453
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/25/16 7:31	KDM	P6C0453
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/25/16 7:31	KDM	P6C0453
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/25/16 7:31	KDM	P6C0453
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/25/16 7:31	KDM	P6C0453
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/25/16 7:31	KDM	P6C0453
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/25/16 7:31	KDM	P6C0453
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/25/16 7:31	KDM	P6C0453
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/25/16 7:31	KDM	P6C0453
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/25/16 7:31	KDM	P6C0453
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/25/16 7:31	KDM	P6C0453
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/25/16 7:31	KDM	P6C0453
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/25/16 7:31	KDM	P6C0453
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/25/16 7:31	KDM	P6C0453
cis-1,2-Dichloroethylene	**1.4**	**ug/L**	**0.50**	**0.056**	**1**	**8260B**	**3/25/16 7:31**	**KDM**	**P6C0453**
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/25/16 7:31	KDM	P6C0453
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/25/16 7:31	KDM	P6C0453

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: SS#4
Prism Sample ID: 6030354-10
Prism Work Order: 6030354
Time Collected: 03/18/16 10:25
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/25/16 7:31	KDM	P6C0453
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/25/16 7:31	KDM	P6C0453
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/25/16 7:31	KDM	P6C0453
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/25/16 7:31	KDM	P6C0453
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/25/16 7:31	KDM	P6C0453
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/25/16 7:31	KDM	P6C0453
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/25/16 7:31	KDM	P6C0453
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/25/16 7:31	KDM	P6C0453
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/25/16 7:31	KDM	P6C0453
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/25/16 7:31	KDM	P6C0453
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/25/16 7:31	KDM	P6C0453
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/25/16 7:31	KDM	P6C0453
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/25/16 7:31	KDM	P6C0453
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/25/16 7:31	KDM	P6C0453
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/25/16 7:31	KDM	P6C0453
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/25/16 7:31	KDM	P6C0453
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/25/16 7:31	KDM	P6C0453
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/25/16 7:31	KDM	P6C0453
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/25/16 7:31	KDM	P6C0453
Tetrachloroethylene	**1.1**	**ug/L**	**0.50**	**0.098**	**1**	**8260B**	**3/25/16 7:31**	**KDM**	**P6C0453**
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/25/16 7:31	KDM	P6C0453
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	3/25/16 7:31	KDM	P6C0453
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/25/16 7:31	KDM	P6C0453
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/25/16 7:31	KDM	P6C0453
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/25/16 7:31	KDM	P6C0453
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/25/16 7:31	KDM	P6C0453
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/25/16 7:31	KDM	P6C0453

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*108 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: SS#5
Prism Sample ID: 6030354-11
Prism Work Order: 6030354
Time Collected: 03/18/16 13:04
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Volatile Organic Compounds by GC/MS									
1,1,1,2-Tetrachloroethane	BRL	ug/L	0.50	0.11	1	8260B	3/25/16 8:05	KDM	P6C0453
1,1,1-Trichloroethane	BRL	ug/L	0.50	0.061	1	8260B	3/25/16 8:05	KDM	P6C0453
1,1,2,2-Tetrachloroethane	BRL	ug/L	0.50	0.036	1	8260B	3/25/16 8:05	KDM	P6C0453
1,1,2-Trichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/25/16 8:05	KDM	P6C0453
1,1-Dichloroethane	BRL	ug/L	0.50	0.083	1	8260B	3/25/16 8:05	KDM	P6C0453
1,1-Dichloroethylene	BRL	ug/L	0.50	0.083	1	8260B	3/25/16 8:05	KDM	P6C0453
1,1-Dichloropropylene	BRL	ug/L	0.50	0.051	1	8260B	3/25/16 8:05	KDM	P6C0453
1,2,3-Trichlorobenzene	BRL	ug/L	2.0	0.40	1	8260B	3/25/16 8:05	KDM	P6C0453
1,2,3-Trichloropropane	BRL	ug/L	1.0	0.14	1	8260B	3/25/16 8:05	KDM	P6C0453
1,2,4-Trichlorobenzene	BRL	ug/L	1.0	0.13	1	8260B	3/25/16 8:05	KDM	P6C0453
1,2,4-Trimethylbenzene	BRL	ug/L	0.50	0.054	1	8260B	3/25/16 8:05	KDM	P6C0453
1,2-Dibromo-3-chloropropane	BRL	ug/L	2.0	0.17	1	8260B	3/25/16 8:05	KDM	P6C0453
1,2-Dibromoethane	BRL	ug/L	0.50	0.051	1	8260B	3/25/16 8:05	KDM	P6C0453
1,2-Dichlorobenzene	BRL	ug/L	0.50	0.076	1	8260B	3/25/16 8:05	KDM	P6C0453
1,2-Dichloroethane	BRL	ug/L	0.50	0.066	1	8260B	3/25/16 8:05	KDM	P6C0453
1,2-Dichloropropane	BRL	ug/L	0.50	0.11	1	8260B	3/25/16 8:05	KDM	P6C0453
1,3,5-Trimethylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/25/16 8:05	KDM	P6C0453
1,3-Dichlorobenzene	BRL	ug/L	0.50	0.054	1	8260B	3/25/16 8:05	KDM	P6C0453
1,3-Dichloropropane	BRL	ug/L	0.50	0.043	1	8260B	3/25/16 8:05	KDM	P6C0453
1,4-Dichlorobenzene	BRL	ug/L	0.50	0.050	1	8260B	3/25/16 8:05	KDM	P6C0453
2,2-Dichloropropane	BRL	ug/L	2.0	0.11	1	8260B	3/25/16 8:05	KDM	P6C0453
2-Chlorotoluene	BRL	ug/L	0.50	0.066	1	8260B	3/25/16 8:05	KDM	P6C0453
4-Chlorotoluene	BRL	ug/L	0.50	0.050	1	8260B	3/25/16 8:05	KDM	P6C0453
4-Isopropyltoluene	BRL	ug/L	0.50	0.089	1	8260B	3/25/16 8:05	KDM	P6C0453
Acetone	BRL	ug/L	5.0	0.31	1	8260B	3/25/16 8:05	KDM	P6C0453
Acrolein	BRL	ug/L	20	0.20	1	8260B	3/25/16 8:05	KDM	P6C0453
Acrylonitrile	BRL	ug/L	20	0.20	1	8260B	3/25/16 8:05	KDM	P6C0453
Benzene	BRL	ug/L	0.50	0.048	1	8260B	3/25/16 8:05	KDM	P6C0453
Bromobenzene	BRL	ug/L	0.50	0.057	1	8260B	3/25/16 8:05	KDM	P6C0453
Bromochloromethane	BRL	ug/L	0.50	0.14	1	8260B	3/25/16 8:05	KDM	P6C0453
Bromodichloromethane	BRL	ug/L	0.50	0.062	1	8260B	3/25/16 8:05	KDM	P6C0453
Bromoform	BRL	ug/L	1.0	0.040	1	8260B	3/25/16 8:05	KDM	P6C0453
Bromomethane	BRL	ug/L	1.0	0.18	1	8260B	3/25/16 8:05	KDM	P6C0453
Carbon disulfide	BRL	ug/L	5.0	0.075	1	8260B	3/25/16 8:05	KDM	P6C0453
Carbon Tetrachloride	BRL	ug/L	0.50	0.11	1	8260B	3/25/16 8:05	KDM	P6C0453
Chlorobenzene	BRL	ug/L	0.50	0.062	1	8260B	3/25/16 8:05	KDM	P6C0453
Chloroethane	BRL	ug/L	0.50	0.22	1	8260B	3/25/16 8:05	KDM	P6C0453
Chloroform	BRL	ug/L	0.50	0.076	1	8260B	3/25/16 8:05	KDM	P6C0453
Chloromethane	BRL	ug/L	0.50	0.079	1	8260B	3/25/16 8:05	KDM	P6C0453
cis-1,2-Dichloroethylene	BRL	ug/L	0.50	0.056	1	8260B	3/25/16 8:05	KDM	P6C0453
cis-1,3-Dichloropropylene	BRL	ug/L	0.50	0.079	1	8260B	3/25/16 8:05	KDM	P6C0453
Dibromochloromethane	BRL	ug/L	0.50	0.081	1	8260B	3/25/16 8:05	KDM	P6C0453

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Sample Matrix: Water

Client Sample ID: SS#5
Prism Sample ID: 6030354-11
Prism Work Order: 6030354
Time Collected: 03/18/16 13:04
Time Submitted: 03/19/16 09:07

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Dibromomethane	BRL	ug/L	0.50	0.065	1	8260B	3/25/16 8:05	KDM	P6C0453
Dichlorodifluoromethane	BRL	ug/L	1.0	0.11	1	8260B	3/25/16 8:05	KDM	P6C0453
Ethylbenzene	BRL	ug/L	0.50	0.061	1	8260B	3/25/16 8:05	KDM	P6C0453
Hexachlorobutadiene	BRL	ug/L	2.0	0.16	1	8260B	3/25/16 8:05	KDM	P6C0453
Isopropyl Ether	BRL	ug/L	0.50	0.050	1	8260B	3/25/16 8:05	KDM	P6C0453
Isopropylbenzene (Cumene)	BRL	ug/L	0.50	0.054	1	8260B	3/25/16 8:05	KDM	P6C0453
m,p-Xylenes	BRL	ug/L	1.0	0.12	1	8260B	3/25/16 8:05	KDM	P6C0453
Methyl Butyl Ketone (2-Hexanone)	BRL	ug/L	5.0	0.065	1	8260B	3/25/16 8:05	KDM	P6C0453
Methyl Ethyl Ketone (2-Butanone)	BRL	ug/L	5.0	0.24	1	8260B	3/25/16 8:05	KDM	P6C0453
Methyl Isobutyl Ketone	BRL	ug/L	5.0	0.078	1	8260B	3/25/16 8:05	KDM	P6C0453
Methylene Chloride	BRL	ug/L	1.0	0.083	1	8260B	3/25/16 8:05	KDM	P6C0453
Methyl-tert-Butyl Ether	BRL	ug/L	0.50	0.042	1	8260B	3/25/16 8:05	KDM	P6C0453
Naphthalene	BRL	ug/L	1.0	0.19	1	8260B	3/25/16 8:05	KDM	P6C0453
n-Butylbenzene	BRL	ug/L	1.0	0.076	1	8260B	3/25/16 8:05	KDM	P6C0453
n-Propylbenzene	BRL	ug/L	0.50	0.087	1	8260B	3/25/16 8:05	KDM	P6C0453
o-Xylene	BRL	ug/L	0.50	0.044	1	8260B	3/25/16 8:05	KDM	P6C0453
sec-Butylbenzene	BRL	ug/L	0.50	0.076	1	8260B	3/25/16 8:05	KDM	P6C0453
Styrene	BRL	ug/L	0.50	0.047	1	8260B	3/25/16 8:05	KDM	P6C0453
tert-Butylbenzene	BRL	ug/L	0.50	0.088	1	8260B	3/25/16 8:05	KDM	P6C0453
Tetrachloroethylene	BRL	ug/L	0.50	0.098	1	8260B	3/25/16 8:05	KDM	P6C0453
Toluene	BRL	ug/L	0.50	0.044	1	8260B	3/25/16 8:05	KDM	P6C0453
trans-1,2-Dichloroethylene	BRL	ug/L	0.50	0.094	1	8260B	3/25/16 8:05	KDM	P6C0453
trans-1,3-Dichloropropylene	BRL	ug/L	0.50	0.070	1	8260B	3/25/16 8:05	KDM	P6C0453
Trichloroethylene	BRL	ug/L	0.50	0.078	1	8260B	3/25/16 8:05	KDM	P6C0453
Trichlorofluoromethane	BRL	ug/L	0.50	0.062	1	8260B	3/25/16 8:05	KDM	P6C0453
Vinyl acetate	BRL CCV	ug/L	2.0	0.060	1	8260B	3/25/16 8:05	KDM	P6C0453
Vinyl chloride	BRL	ug/L	0.50	0.097	1	8260B	3/25/16 8:05	KDM	P6C0453

Surrogate	Recovery	Control Limits
4-Bromofluorobenzene	*106 %*	*80-124*
Dibromofluoromethane	*102 %*	*75-129*
Toluene-d8	*103 %*	*77-123*

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Prism Work Order: 6030354
Time Submitted: 3/19/2016 9:07:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0452 - 5030B										
Blank (P6C0452-BLK1)				Prepared & Analyzed: 03/24/16						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Prism Work Order: 6030354
Time Submitted: 3/19/2016 9:07:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0452 - 5030B										
Blank (P6C0452-BLK1)				Prepared & Analyzed: 03/24/16						
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
Toluene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Heptane	0.00		ug/L							
Surrogate: 4-Bromofluorobenzene	*53.8*		*ug/L*	*50.00*		*108*	*80-124*			
Surrogate: Dibromofluoromethane	*49.8*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*51.8*		*ug/L*	*50.00*		*104*	*77-123*			

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Prism Work Order: 6030354
Time Submitted: 3/19/2016 9:07:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0452 - 5030B										
LCS (P6C0452-BS1)				Prepared & Analyzed: 03/24/16						
1,1,1,2-Tetrachloroethane	19.9	0.50	ug/L	20.00		100	79-134			
1,1,1-Trichloroethane	22.0	0.50	ug/L	20.00		110	75-136			
1,1,2,2-Tetrachloroethane	22.1	0.50	ug/L	20.00		111	62-127			
1,1,2-Trichloroethane	22.1	0.50	ug/L	20.00		110	70-140			
1,1-Dichloroethane	20.6	0.50	ug/L	20.00		103	78-130			
1,1-Dichloroethylene	23.0	0.50	ug/L	20.00		115	70-154			
1,1-Dichloropropylene	22.4	0.50	ug/L	20.00		112	71-136			
1,2,3-Trichlorobenzene	20.7	2.0	ug/L	20.00		103	58-144			
1,2,3-Trichloropropane	19.6	1.0	ug/L	20.00		98	71-127			
1,2,4-Trichlorobenzene	21.0	1.0	ug/L	20.00		105	66-139			
1,2,4-Trimethylbenzene	22.5	0.50	ug/L	20.00		112	75-133			
1,2-Dibromo-3-chloropropane	21.3	2.0	ug/L	20.00		106	63-134			
1,2-Dibromoethane	20.1	0.50	ug/L	20.00		100	77-135			
1,2-Dichlorobenzene	21.0	0.50	ug/L	20.00		105	78-128			
1,2-Dichloroethane	22.8	0.50	ug/L	20.00		114	68-131			
1,2-Dichloropropane	21.2	0.50	ug/L	20.00		106	77-130			
1,3,5-Trimethylbenzene	23.3	0.50	ug/L	20.00		117	75-131			
1,3-Dichlorobenzene	21.1	0.50	ug/L	20.00		106	77-125			
1,3-Dichloropropane	22.6	0.50	ug/L	20.00		113	76-132			
1,4-Dichlorobenzene	20.8	0.50	ug/L	20.00		104	75-126			
2,2-Dichloropropane	25.4	2.0	ug/L	20.00		127	29-149			
2-Chlorotoluene	22.4	0.50	ug/L	20.00		112	74-126			
4-Chlorotoluene	22.1	0.50	ug/L	20.00		110	78-129			
4-Isopropyltoluene	21.6	0.50	ug/L	20.00		108	69-132			
Acetone	42.4	5.0	ug/L	40.00		106	40-166			
Acrolein	46.3	20	ug/L	40.00		116	70-130			
Acrylonitrile	42.6	20	ug/L	40.00		106	81-127			
Benzene	23.4	0.50	ug/L	20.00		117	77-128			
Bromobenzene	22.2	0.50	ug/L	20.00		111	78-129			
Bromochloromethane	19.7	0.50	ug/L	20.00		98	78-135			
Bromodichloromethane	21.1	0.50	ug/L	20.00		106	76-138			
Bromoform	18.9	1.0	ug/L	20.00		95	71-135			
Bromomethane	19.5	1.0	ug/L	20.00		98	41-168			
Carbon disulfide	30.7	5.0	ug/L	20.00		154	59-135			LH
Carbon Tetrachloride	22.6	0.50	ug/L	20.00		113	72-142			
Chlorobenzene	22.0	0.50	ug/L	20.00		110	78-119			
Chloroethane	23.9	0.50	ug/L	20.00		120	57-142			
Chloroform	21.1	0.50	ug/L	20.00		106	77-130			
Chloromethane	32.0	0.50	ug/L	20.00		160	47-145			LH
cis-1,2-Dichloroethylene	19.9	0.50	ug/L	20.00		99	76-141			
cis-1,3-Dichloropropylene	22.4	0.50	ug/L	20.00		112	65-140			
Dibromochloromethane	19.8	0.50	ug/L	20.00		99	75-134			
Dibromomethane	20.3	0.50	ug/L	20.00		102	76-138			
Dichlorodifluoromethane	43.3	1.0	ug/L	20.00		216	28-163			LH
Ethylbenzene	23.1	0.50	ug/L	20.00		116	80-127			
Hexachlorobutadiene	22.0	2.0	ug/L	20.00		110	61-134			

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
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Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Prism Work Order: 6030354
Time Submitted: 3/19/2016 9:07:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0452 - 5030B										
LCS (P6C0452-BS1)				Prepared & Analyzed: 03/24/16						
Isopropyl Ether	21.8	0.50	ug/L	20.00		109	60-154			
Isopropylbenzene (Cumene)	23.3	0.50	ug/L	20.00		117	70-130			
m,p-Xylenes	45.8	1.0	ug/L	40.00		115	77-133			
Methyl Butyl Ketone (2-Hexanone)	22.8	5.0	ug/L	20.00		114	64-137			
Methyl Ethyl Ketone (2-Butanone)	23.3	5.0	ug/L	20.00		116	71-134			
Methyl Isobutyl Ketone	22.0	5.0	ug/L	20.00		110	69-134			
Methylene Chloride	20.3	1.0	ug/L	20.00		101	73-131			
Methyl-tert-Butyl Ether	21.7	0.50	ug/L	20.00		108	68-135			
Naphthalene	20.5	1.0	ug/L	20.00		102	64-136			
n-Butylbenzene	22.1	1.0	ug/L	20.00		111	68-134			
n-Propylbenzene	22.9	0.50	ug/L	20.00		115	72-132			
o-Xylene	22.2	0.50	ug/L	20.00		111	78-128			
sec-Butylbenzene	22.9	0.50	ug/L	20.00		114	71-131			
Styrene	22.1	0.50	ug/L	20.00		111	78-129			
tert-Butylbenzene	22.3	0.50	ug/L	20.00		111	70-132			
Tetrachloroethylene	23.7	0.50	ug/L	20.00		118	80-129			
Toluene	21.9	0.50	ug/L	20.00		110	76-131			
trans-1,2-Dichloroethylene	21.7	0.50	ug/L	20.00		109	76-135			
trans-1,3-Dichloropropylene	20.9	0.50	ug/L	20.00		104	67-140			
Trichloroethylene	19.3	0.50	ug/L	20.00		96	77-133			
Trichlorofluoromethane	22.5	0.50	ug/L	20.00		113	62-148			
Vinyl acetate	29.0	2.0	ug/L	20.00		145	34-167			
Vinyl chloride	28.8	0.50	ug/L	20.00		144	57-141			LH
Surrogate: 4-Bromofluorobenzene	*51.9*		*ug/L*	*50.00*		*104*	*80-124*			
Surrogate: Dibromofluoromethane	*49.9*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*52.1*		*ug/L*	*50.00*		*104*	*77-123*			
LCS Dup (P6C0452-BSD1)				Prepared & Analyzed: 03/24/16						
1,1,1,2-Tetrachloroethane	20.0	0.50	ug/L	20.00		100	79-134	0.1	20	
1,1,1-Trichloroethane	22.2	0.50	ug/L	20.00		111	75-136	0.9	20	
1,1,2,2-Tetrachloroethane	22.7	0.50	ug/L	20.00		114	62-127	3	20	
1,1,2-Trichloroethane	22.5	0.50	ug/L	20.00		113	70-140	2	20	
1,1-Dichloroethane	20.2	0.50	ug/L	20.00		101	78-130	2	20	
1,1-Dichloroethylene	22.4	0.50	ug/L	20.00		112	70-154	3	20	
1,1-Dichloropropylene	22.3	0.50	ug/L	20.00		111	71-136	0.4	20	
1,2,3-Trichlorobenzene	21.6	2.0	ug/L	20.00		108	58-144	4	20	
1,2,3-Trichloropropane	20.1	1.0	ug/L	20.00		101	71-127	2	20	
1,2,4-Trichlorobenzene	21.2	1.0	ug/L	20.00		106	66-139	0.9	20	
1,2,4-Trimethylbenzene	22.5	0.50	ug/L	20.00		113	75-133	0.2	20	
1,2-Dibromo-3-chloropropane	22.0	2.0	ug/L	20.00		110	63-134	3	20	
1,2-Dibromoethane	20.3	0.50	ug/L	20.00		102	77-135	1	20	
1,2-Dichlorobenzene	21.5	0.50	ug/L	20.00		107	78-128	2	20	
1,2-Dichloroethane	22.6	0.50	ug/L	20.00		113	68-131	1	20	
1,2-Dichloropropane	21.1	0.50	ug/L	20.00		106	77-130	0.6	20	
1,3,5-Trimethylbenzene	23.2	0.50	ug/L	20.00		116	75-131	0.5	20	
1,3-Dichlorobenzene	21.5	0.50	ug/L	20.00		108	77-125	2	20	
1,3-Dichloropropane	22.9	0.50	ug/L	20.00		114	76-132	0.9	20	

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Project: Acme United 2016 MNA GW Sampling

Prism Work Order: 6030354
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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0452 - 5030B										
LCS Dup (P6C0452-BSD1)				Prepared & Analyzed: 03/24/16						
1,4-Dichlorobenzene	21.4	0.50	ug/L	20.00		107	75-126	3	20	
2,2-Dichloropropane	25.0	2.0	ug/L	20.00		125	29-149	1	20	
2-Chlorotoluene	22.6	0.50	ug/L	20.00		113	74-126	0.9	20	
4-Chlorotoluene	22.4	0.50	ug/L	20.00		112	78-129	1	20	
4-Isopropyltoluene	22.2	0.50	ug/L	20.00		111	69-132	3	20	
Acetone	43.4	5.0	ug/L	40.00		108	40-166	2	20	
Acrolein	46.1	20	ug/L	40.00		115	70-130	0.5	20	
Acrylonitrile	44.2	20	ug/L	40.00		111	81-127	4	20	
Benzene	23.2	0.50	ug/L	20.00		116	77-128	0.9	20	
Bromobenzene	22.8	0.50	ug/L	20.00		114	78-129	2	20	
Bromochloromethane	19.6	0.50	ug/L	20.00		98	78-135	0.5	20	
Bromodichloromethane	21.0	0.50	ug/L	20.00		105	76-138	0.6	20	
Bromoform	19.2	1.0	ug/L	20.00		96	71-135	1	20	
Bromomethane	20.0	1.0	ug/L	20.00		100	41-168	3	20	
Carbon disulfide	30.6	5.0	ug/L	20.00		153	59-135	0.4	20	LH
Carbon Tetrachloride	22.7	0.50	ug/L	20.00		113	72-142	0.4	20	
Chlorobenzene	21.7	0.50	ug/L	20.00		108	78-119	1	20	
Chloroethane	23.3	0.50	ug/L	20.00		117	57-142	2	20	
Chloroform	21.0	0.50	ug/L	20.00		105	77-130	0.6	20	
Chloromethane	31.4	0.50	ug/L	20.00		157	47-145	2	20	LH
cis-1,2-Dichloroethylene	19.5	0.50	ug/L	20.00		97	76-141	2	20	
cis-1,3-Dichloropropylene	22.3	0.50	ug/L	20.00		111	65-140	0.4	20	
Dibromochloromethane	20.2	0.50	ug/L	20.00		101	75-134	1	20	
Dibromomethane	20.2	0.50	ug/L	20.00		101	76-138	0.6	20	
Dichlorodifluoromethane	41.4	1.0	ug/L	20.00		207	28-163	4	20	LH
Ethylbenzene	22.6	0.50	ug/L	20.00		113	80-127	2	20	
Hexachlorobutadiene	22.2	2.0	ug/L	20.00		111	61-134	0.8	20	
Isopropyl Ether	21.7	0.50	ug/L	20.00		109	60-154	0.5	20	
Isopropylbenzene (Cumene)	23.2	0.50	ug/L	20.00		116	70-130	0.5	20	
m,p-Xylenes	44.8	1.0	ug/L	40.00		112	77-133	2	20	
Methyl Butyl Ketone (2-Hexanone)	23.7	5.0	ug/L	20.00		118	64-137	4	20	
Methyl Ethyl Ketone (2-Butanone)	23.4	5.0	ug/L	20.00		117	71-134	0.6	20	
Methyl Isobutyl Ketone	23.0	5.0	ug/L	20.00		115	69-134	5	20	
Methylene Chloride	20.2	1.0	ug/L	20.00		101	73-131	0.4	20	
Methyl-tert-Butyl Ether	22.1	0.50	ug/L	20.00		111	68-135	2	20	
Naphthalene	21.2	1.0	ug/L	20.00		106	64-136	3	20	
n-Butylbenzene	22.4	1.0	ug/L	20.00		112	68-134	1	20	
n-Propylbenzene	23.0	0.50	ug/L	20.00		115	72-132	0.4	20	
o-Xylene	22.0	0.50	ug/L	20.00		110	78-128	1	20	
sec-Butylbenzene	22.9	0.50	ug/L	20.00		114	71-131	0.09	20	
Styrene	22.0	0.50	ug/L	20.00		110	78-129	0.8	20	
tert-Butylbenzene	22.4	0.50	ug/L	20.00		112	70-132	0.4	20	
Tetrachloroethylene	23.5	0.50	ug/L	20.00		118	80-129	0.8	20	
Toluene	21.8	0.50	ug/L	20.00		109	76-131	0.5	20	
trans-1,2-Dichloroethylene	21.4	0.50	ug/L	20.00		107	76-135	2	20	
trans-1,3-Dichloropropylene	21.3	0.50	ug/L	20.00		106	67-140	2	20	

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0452 - 5030B										
LCS Dup (P6C0452-BSD1)				Prepared & Analyzed: 03/24/16						
Trichloroethylene	19.3	0.50	ug/L	20.00		97	77-133	0.2	20	
Trichlorofluoromethane	21.7	0.50	ug/L	20.00		108	62-148	4	20	
Vinyl acetate	26.7	2.0	ug/L	20.00		134	34-167	8	20	
Vinyl chloride	28.5	0.50	ug/L	20.00		142	57-141	1	20	LH
Surrogate: 4-Bromofluorobenzene	*52.7*		*ug/L*	*50.00*		*105*	*80-124*			
Surrogate: Dibromofluoromethane	*50.9*		*ug/L*	*50.00*		*102*	*75-129*			
Surrogate: Toluene-d8	*51.1*		*ug/L*	*50.00*		*102*	*77-123*			
Batch P6C0453 - 5030B										
Blank (P6C0453-BLK1)				Prepared: 03/24/16 Analyzed: 03/25/16						
1,1,1,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,1-Trichloroethane	BRL	0.50	ug/L							
1,1,2,2-Tetrachloroethane	BRL	0.50	ug/L							
1,1,2-Trichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethane	BRL	0.50	ug/L							
1,1-Dichloroethylene	BRL	0.50	ug/L							
1,1-Dichloropropylene	BRL	0.50	ug/L							
1,2,3-Trichlorobenzene	BRL	2.0	ug/L							
1,2,3-Trichloropropane	BRL	1.0	ug/L							
1,2,4-Trichlorobenzene	BRL	1.0	ug/L							
1,2,4-Trimethylbenzene	BRL	0.50	ug/L							
1,2-Dibromo-3-chloropropane	BRL	2.0	ug/L							
1,2-Dibromoethane	BRL	0.50	ug/L							
1,2-Dichlorobenzene	BRL	0.50	ug/L							
1,2-Dichloroethane	BRL	0.50	ug/L							
1,2-Dichloropropane	BRL	0.50	ug/L							
1,3,5-Trimethylbenzene	BRL	0.50	ug/L							
1,3-Dichlorobenzene	BRL	0.50	ug/L							
1,3-Dichloropropane	BRL	0.50	ug/L							
1,3-Dichloropropylene (total)	BRL	1.0	ug/L							
1,4-Dichlorobenzene	BRL	0.50	ug/L							
2,2-Dichloropropane	BRL	2.0	ug/L							
2-Chlorotoluene	BRL	0.50	ug/L							
4-Chlorotoluene	BRL	0.50	ug/L							
4-Isopropyltoluene	BRL	0.50	ug/L							
Acetone	BRL	5.0	ug/L							
Acrolein	BRL	20	ug/L							
Acrylonitrile	BRL	20	ug/L							
Benzene	BRL	0.50	ug/L							
Bromobenzene	BRL	0.50	ug/L							
Bromochloromethane	BRL	0.50	ug/L							
Bromodichloromethane	BRL	0.50	ug/L							
Bromoform	BRL	1.0	ug/L							
Bromomethane	BRL	1.0	ug/L							
Carbon disulfide	BRL	5.0	ug/L							
Carbon Tetrachloride	BRL	0.50	ug/L							

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0453 - 5030B										
Blank (P6C0453-BLK1)				Prepared: 03/24/16 Analyzed: 03/25/16						
Chlorobenzene	BRL	0.50	ug/L							
Chloroethane	BRL	0.50	ug/L							
Chloroform	BRL	0.50	ug/L							
Chloromethane	BRL	0.50	ug/L							
cis-1,2-Dichloroethylene	BRL	0.50	ug/L							
cis-1,3-Dichloropropylene	BRL	0.50	ug/L							
Dibromochloromethane	BRL	0.50	ug/L							
Dibromomethane	BRL	0.50	ug/L							
Dichlorodifluoromethane	BRL	1.0	ug/L							
Ethylbenzene	BRL	0.50	ug/L							
Hexachlorobutadiene	BRL	2.0	ug/L							
Isopropyl Ether	BRL	0.50	ug/L							
Isopropylbenzene (Cumene)	BRL	0.50	ug/L							
m,p-Xylenes	BRL	1.0	ug/L							
Methyl Butyl Ketone (2-Hexanone)	BRL	5.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	BRL	5.0	ug/L							
Methyl Isobutyl Ketone	BRL	5.0	ug/L							
Methylene Chloride	BRL	1.0	ug/L							
Methyl-tert-Butyl Ether	BRL	0.50	ug/L							
Naphthalene	BRL	1.0	ug/L							
n-Butylbenzene	BRL	1.0	ug/L							
n-Propylbenzene	BRL	0.50	ug/L							
o-Xylene	BRL	0.50	ug/L							
sec-Butylbenzene	BRL	0.50	ug/L							
Styrene	BRL	0.50	ug/L							
tert-Butylbenzene	BRL	0.50	ug/L							
Tetrachloroethylene	BRL	0.50	ug/L							
trans-1,2-Dichloroethylene	BRL	0.50	ug/L							
trans-1,3-Dichloropropylene	BRL	0.50	ug/L							
Trichloroethylene	BRL	0.50	ug/L							
Trichlorofluoromethane	BRL	0.50	ug/L							
Vinyl acetate	BRL	2.0	ug/L							
Vinyl chloride	BRL	0.50	ug/L							
Surrogate: 4-Bromofluorobenzene	*53.9*		*ug/L*	*50.00*		*108*	*80-124*			
Surrogate: Dibromofluoromethane	*50.2*		*ug/L*	*50.00*		*100*	*75-129*			
Surrogate: Toluene-d8	*51.3*		*ug/L*	*50.00*		*103*	*77-123*			

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Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0453 - 5030B										
LCS (P6C0453-BS1)				Prepared: 03/24/16 Analyzed: 03/25/16						
1,1,1,2-Tetrachloroethane	19.6	0.50	ug/L	20.00		98	79-134			
1,1,1-Trichloroethane	21.4	0.50	ug/L	20.00		107	75-136			
1,1,2,2-Tetrachloroethane	20.9	0.50	ug/L	20.00		104	62-127			
1,1,2-Trichloroethane	21.4	0.50	ug/L	20.00		107	70-140			
1,1-Dichloroethane	20.0	0.50	ug/L	20.00		100	78-130			
1,1-Dichloroethylene	22.6	0.50	ug/L	20.00		113	70-154			
1,1-Dichloropropylene	21.7	0.50	ug/L	20.00		108	71-136			
1,2,3-Trichlorobenzene	20.2	2.0	ug/L	20.00		101	58-144			
1,2,3-Trichloropropane	19.4	1.0	ug/L	20.00		97	71-127			
1,2,4-Trichlorobenzene	20.3	1.0	ug/L	20.00		101	66-139			
1,2,4-Trimethylbenzene	21.8	0.50	ug/L	20.00		109	75-133			
1,2-Dibromo-3-chloropropane	21.3	2.0	ug/L	20.00		106	63-134			
1,2-Dibromoethane	19.6	0.50	ug/L	20.00		98	77-135			
1,2-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	78-128			
1,2-Dichloroethane	22.0	0.50	ug/L	20.00		110	68-131			
1,2-Dichloropropane	20.8	0.50	ug/L	20.00		104	77-130			
1,3,5-Trimethylbenzene	22.8	0.50	ug/L	20.00		114	75-131			
1,3-Dichlorobenzene	20.7	0.50	ug/L	20.00		104	77-125			
1,3-Dichloropropane	22.0	0.50	ug/L	20.00		110	76-132			
1,4-Dichlorobenzene	20.5	0.50	ug/L	20.00		102	75-126			
2,2-Dichloropropane	20.1	2.0	ug/L	20.00		101	29-149			
2-Chlorotoluene	22.1	0.50	ug/L	20.00		110	74-126			
4-Chlorotoluene	21.8	0.50	ug/L	20.00		109	78-129			
4-Isopropyltoluene	21.2	0.50	ug/L	20.00		106	69-132			
Acetone	42.4	5.0	ug/L	40.00		106	40-166			
Acrolein	40.2	20	ug/L	40.00		101	70-130			
Acrylonitrile	41.2	20	ug/L	40.00		103	81-127			
Benzene	23.0	0.50	ug/L	20.00		115	77-128			
Bromobenzene	22.4	0.50	ug/L	20.00		112	78-129			
Bromochloromethane	19.0	0.50	ug/L	20.00		95	78-135			
Bromodichloromethane	21.1	0.50	ug/L	20.00		105	76-138			
Bromoform	18.5	1.0	ug/L	20.00		92	71-135			
Bromomethane	15.6	1.0	ug/L	20.00		78	41-168			
Carbon disulfide	29.5	5.0	ug/L	20.00		148	59-135			LH
Carbon Tetrachloride	21.9	0.50	ug/L	20.00		110	72-142			
Chlorobenzene	21.4	0.50	ug/L	20.00		107	78-119			
Chloroethane	23.2	0.50	ug/L	20.00		116	57-142			
Chloromethane	29.8	0.50	ug/L	20.00		149	47-145			L1
cis-1,2-Dichloroethylene	19.4	0.50	ug/L	20.00		97	76-141			
cis-1,3-Dichloropropylene	21.7	0.50	ug/L	20.00		108	65-140			
Dibromochloromethane	19.0	0.50	ug/L	20.00		95	75-134			
Dibromomethane	20.4	0.50	ug/L	20.00		102	76-138			
Dichlorodifluoromethane	39.7	1.0	ug/L	20.00		198	28-163			LH
Ethylbenzene	22.2	0.50	ug/L	20.00		111	80-127			
Hexachlorobutadiene	21.4	2.0	ug/L	20.00		107	61-134			
Isopropyl Ether	21.3	0.50	ug/L	20.00		106	60-154			

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Prism Work Order: 6030354
Time Submitted: 3/19/2016 9:07:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0453 - 5030B										
LCS (P6C0453-BS1)				Prepared: 03/24/16 Analyzed: 03/25/16						
Isopropylbenzene (Cumene)	22.8	0.50	ug/L	20.00		114	70-130			
m,p-Xylenes	44.4	1.0	ug/L	40.00		111	77-133			
Methyl Butyl Ketone (2-Hexanone)	21.4	5.0	ug/L	20.00		107	64-137			
Methyl Ethyl Ketone (2-Butanone)	24.1	5.0	ug/L	20.00		121	71-134			
Methyl Isobutyl Ketone	20.9	5.0	ug/L	20.00		105	69-134			
Methylene Chloride	19.9	1.0	ug/L	20.00		99	73-131			
Methyl-tert-Butyl Ether	21.2	0.50	ug/L	20.00		106	68-135			
Naphthalene	20.0	1.0	ug/L	20.00		100	64-136			
n-Butylbenzene	21.4	1.0	ug/L	20.00		107	68-134			
n-Propylbenzene	22.6	0.50	ug/L	20.00		113	72-132			
o-Xylene	21.5	0.50	ug/L	20.00		107	78-128			
sec-Butylbenzene	22.4	0.50	ug/L	20.00		112	71-131			
Styrene	21.5	0.50	ug/L	20.00		108	78-129			
tert-Butylbenzene	22.0	0.50	ug/L	20.00		110	70-132			
tert-Butyl Formate	47.1	10	ug/L	40.00		118	70-130			
Toluene	21.4	0.50	ug/L	20.00		107	76-131			
trans-1,2-Dichloroethylene	21.1	0.50	ug/L	20.00		106	76-135			
trans-1,3-Dichloropropylene	20.2	0.50	ug/L	20.00		101	67-140			
Trichloroethylene	19.3	0.50	ug/L	20.00		97	77-133			
Trichlorofluoromethane	21.6	0.50	ug/L	20.00		108	62-148			
Vinyl acetate	23.8	2.0	ug/L	20.00		119	34-167			
Vinyl chloride	26.9	0.50	ug/L	20.00		135	57-141			
Surrogate: 4-Bromofluorobenzene	*53.3*		*ug/L*	*50.00*		*107*	*80-124*			
Surrogate: Dibromofluoromethane	*51.7*		*ug/L*	*50.00*		*103*	*75-129*			
Surrogate: Toluene-d8	*51.5*		*ug/L*	*50.00*		*103*	*77-123*			
LCS Dup (P6C0453-BSD1)				Prepared: 03/24/16 Analyzed: 03/25/16						
1,1,1,2-Tetrachloroethane	19.0	0.50	ug/L	20.00		95	79-134	3	20	
1,1,1-Trichloroethane	20.8	0.50	ug/L	20.00		104	75-136	3	20	
1,1,2,2-Tetrachloroethane	20.9	0.50	ug/L	20.00		104	62-127	0.05	20	
1,1,2-Trichloroethane	21.5	0.50	ug/L	20.00		107	70-140	0.2	20	
1,1-Dichloroethane	19.4	0.50	ug/L	20.00		97	78-130	3	20	
1,1-Dichloroethylene	21.4	0.50	ug/L	20.00		107	70-154	5	20	
1,1-Dichloropropylene	21.1	0.50	ug/L	20.00		106	71-136	3	20	
1,2,3-Trichlorobenzene	20.0	2.0	ug/L	20.00		100	58-144	1	20	
1,2,3-Trichloropropane	18.9	1.0	ug/L	20.00		95	71-127	2	20	
1,2,4-Trichlorobenzene	19.7	1.0	ug/L	20.00		98	66-139	3	20	
1,2,4-Trimethylbenzene	21.2	0.50	ug/L	20.00		106	75-133	3	20	
1,2-Dibromo-3-chloropropane	21.0	2.0	ug/L	20.00		105	63-134	1	20	
1,2-Dibromoethane	19.6	0.50	ug/L	20.00		98	77-135	0.1	20	
1,2-Dichlorobenzene	20.3	0.50	ug/L	20.00		102	78-128	0.1	20	
1,2-Dichloroethane	21.7	0.50	ug/L	20.00		108	68-131	1	20	
1,2-Dichloropropane	20.3	0.50	ug/L	20.00		102	77-130	3	20	
1,3,5-Trimethylbenzene	22.2	0.50	ug/L	20.00		111	75-131	3	20	
1,3-Dichlorobenzene	20.4	0.50	ug/L	20.00		102	77-125	2	20	
1,3-Dichloropropane	21.7	0.50	ug/L	20.00		109	76-132	1	20	
1,4-Dichlorobenzene	20.1	0.50	ug/L	20.00		101	75-126	2	20	

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Prism Work Order: 6030354
Time Submitted: 3/19/2016 9:07:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0453 - 5030B										
LCS Dup (P6C0453-BSD1)				Prepared: 03/24/16 Analyzed: 03/25/16						
2,2-Dichloropropane	19.0	2.0	ug/L	20.00		95	29-149	6	20	
2-Chlorotoluene	21.4	0.50	ug/L	20.00		107	74-126	3	20	
4-Chlorotoluene	21.0	0.50	ug/L	20.00		105	78-129	4	20	
4-Isopropyltoluene	20.7	0.50	ug/L	20.00		104	69-132	2	20	
Acetone	42.4	5.0	ug/L	40.00		106	40-166	0.1	20	
Acrolein	37.3	20	ug/L	40.00		93	70-130	7	20	
Acrylonitrile	41.8	20	ug/L	40.00		104	81-127	1	20	
Benzene	22.5	0.50	ug/L	20.00		113	77-128	2	20	
Bromobenzene	21.2	0.50	ug/L	20.00		106	78-129	5	20	
Bromochloromethane	19.1	0.50	ug/L	20.00		95	78-135	0.4	20	
Bromodichloromethane	20.8	0.50	ug/L	20.00		104	76-138	2	20	
Bromoform	18.6	1.0	ug/L	20.00		93	71-135	0.5	20	
Bromomethane	15.8	1.0	ug/L	20.00		79	41-168	1	20	
Carbon disulfide	28.6	5.0	ug/L	20.00		143	59-135	3	20	LH
Carbon Tetrachloride	21.0	0.50	ug/L	20.00		105	72-142	4	20	
Chlorobenzene	20.9	0.50	ug/L	20.00		104	78-119	2	20	
Chloroethane	21.9	0.50	ug/L	20.00		110	57-142	6	20	
Chloroform	20.8	0.50	ug/L	20.00		104	77-130	2	20	
Chloromethane	28.9	0.50	ug/L	20.00		144	47-145	3	20	
cis-1,2-Dichloroethylene	18.7	0.50	ug/L	20.00		93	76-141	4	20	
cis-1,3-Dichloropropylene	21.1	0.50	ug/L	20.00		106	65-140	3	20	
Dibromochloromethane	19.0	0.50	ug/L	20.00		95	75-134	0.1	20	
Dibromomethane	19.6	0.50	ug/L	20.00		98	76-138	4	20	
Dichlorodifluoromethane	38.3	1.0	ug/L	20.00		191	28-163	4	20	LH
Ethylbenzene	21.5	0.50	ug/L	20.00		108	80-127	3	20	
Hexachlorobutadiene	20.1	2.0	ug/L	20.00		101	61-134	6	20	
Isopropyl Ether	21.1	0.50	ug/L	20.00		105	60-154	0.9	20	
Isopropylbenzene (Cumene)	22.2	0.50	ug/L	20.00		111	70-130	3	20	
m,p-Xylenes	42.7	1.0	ug/L	40.00		107	77-133	4	20	
Methyl Butyl Ketone (2-Hexanone)	21.8	5.0	ug/L	20.00		109	64-137	2	20	
Methyl Ethyl Ketone (2-Butanone)	22.8	5.0	ug/L	20.00		114	71-134	6	20	
Methyl Isobutyl Ketone	21.3	5.0	ug/L	20.00		107	69-134	2	20	
Methylene Chloride	19.2	1.0	ug/L	20.00		96	73-131	3	20	
Methyl-tert-Butyl Ether	20.6	0.50	ug/L	20.00		103	68-135	3	20	
Naphthalene	19.9	1.0	ug/L	20.00		99	64-136	0.5	20	
n-Butylbenzene	20.6	1.0	ug/L	20.00		103	68-134	4	20	
n-Propylbenzene	21.6	0.50	ug/L	20.00		108	72-132	5	20	
o-Xylene	21.1	0.50	ug/L	20.00		105	78-128	2	20	
sec-Butylbenzene	21.5	0.50	ug/L	20.00		107	71-131	4	20	
Styrene	20.9	0.50	ug/L	20.00		105	78-129	3	20	
tert-Butylbenzene	21.1	0.50	ug/L	20.00		106	70-132	4	20	
Tetrachloroethylene	22.2	0.50	ug/L	20.00		111	80-129	2	20	
Toluene	20.7	0.50	ug/L	20.00		104	76-131	3	20	
trans-1,2-Dichloroethylene	20.2	0.50	ug/L	20.00		101	76-135	4	20	
trans-1,3-Dichloropropylene	20.0	0.50	ug/L	20.00		100	67-140	0.5	20	
Trichloroethylene	18.5	0.50	ug/L	20.00		92	77-133	4	20	

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Prism Work Order: 6030354
Time Submitted: 3/19/2016 9:07:00AM

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0453 - 5030B										
LCS Dup (P6C0453-BSD1)				Prepared: 03/24/16 Analyzed: 03/25/16						
Trichlorofluoromethane	20.9	0.50	ug/L	20.00		105	62-148	3	20	
Vinyl acetate	24.0	2.0	ug/L	20.00		120	34-167	0.6	20	
Vinyl chloride	26.6	0.50	ug/L	20.00		133	57-141	1	20	
Surrogate: 4-Bromofluorobenzene	*52.5*		*ug/L*	*50.00*		*105*	*80-124*			
Surrogate: Dibromofluoromethane	*50.6*		*ug/L*	*50.00*		*101*	*75-129*			
Surrogate: Toluene-d8	*51.4*		*ug/L*	*50.00*		*103*	*77-123*			

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
409 Rogers View Court
Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Prism Work Order: 6030354
Time Submitted: 3/19/2016 9:07:00AM

Total Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0357 - 3010A										
Blank (P6C0357-BLK1)				Prepared & Analyzed: 03/22/16						
Iron	BRL	0.10	mg/L							
Manganese	BRL	0.010	mg/L							
LCS (P6C0357-BS1)				Prepared & Analyzed: 03/22/16						
Iron	5.12	0.10	mg/L	5.000		102	80-120			
Manganese	0.272	0.010	mg/L	0.2500		109	80-120			
Matrix Spike (P6C0357-MS1)		**Source: 6030354-02**		Prepared & Analyzed: 03/22/16						
Iron	171	0.10	mg/L	5.000	161	200	75-125			MC
Manganese	0.357	0.010	mg/L	0.2500	0.107	100	75-125			
Matrix Spike Dup (P6C0357-MSD1)		**Source: 6030354-02**		Prepared & Analyzed: 03/22/16						
Iron	166	0.10	mg/L	5.000	161	100	75-125	3	20	
Manganese	0.350	0.010	mg/L	0.2500	0.107	97	75-125	2	20	

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Prism Work Order: 6030354
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Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0324 - NO PREP										
Blank (P6C0324-BLK1)				Prepared & Analyzed: 03/18/16						
Nitrate as N	BRL	0.10	mg/L							
LCS (P6C0324-BS1)				Prepared & Analyzed: 03/18/16						
Nitrate as N	4.05	0.10	mg/L	4.000		101	80-120			
Batch P6C0420 - NO PREP										
Blank (P6C0420-BLK1)				Prepared & Analyzed: 03/21/16						
Chloride	BRL	1.0	mg/L							
Sulfate	BRL	1.0	mg/L							
LCS (P6C0420-BS1)				Prepared & Analyzed: 03/21/16						
Chloride	40.8	1.0	mg/L	40.00		102	80-120			
Sulfate	40.4	1.0	mg/L	40.20		100	80-120			

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Mid-Atlantic Associates, Inc. - Raleigh
Attn: Dan Nielsen
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Raleigh, NC 27610

Project: Acme United 2016 MNA GW Sampling

Prism Work Order: 6030354
Time Submitted: 3/19/2016 9:07:00AM

General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0345 - NO PREP										
Blank (P6C0345-BLK1)				Prepared & Analyzed: 03/19/16						
Ferrous Iron	BRL	0.20	mg/L							
LCS (P6C0345-BS1)				Prepared & Analyzed: 03/19/16						
Ferrous Iron	1.87	0.20	mg/L	2.000		94	90-110			
Matrix Spike (P6C0345-MS1)		**Source: 6030354-06**		Prepared & Analyzed: 03/19/16						
Ferrous Iron	2.10	0.20	mg/L	2.000	0.214	94	80-120			
Matrix Spike Dup (P6C0345-MSD1)		**Source: 6030354-06**		Prepared & Analyzed: 03/19/16						
Ferrous Iron	2.09	0.20	mg/L	2.000	0.214	94	80-120	0.4	20	
Batch P6C0356 - NO PREP										
Blank (P6C0356-BLK1)				Prepared & Analyzed: 03/21/16						
Total Dissolved Solids	BRL	50	mg/L							
LCS (P6C0356-BS1)				Prepared & Analyzed: 03/21/16						
Total Dissolved Solids	1020	50	mg/L	1000		102	90-110			
Duplicate (P6C0356-DUP1)		**Source: 6030354-02**		Prepared & Analyzed: 03/21/16						
Total Dissolved Solids	132	50	mg/L		130			2	20	
Batch P6C0364 - NO PREP										
Blank (P6C0364-BLK1)				Prepared & Analyzed: 03/23/16						
Total Alkalinity to pH 4.5	BRL	5.0	mg/L							

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Prism Work Order: 6030354
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General Chemistry Parameters - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6C0364 - NO PREP										
LCS (P6C0364-BS1)				Prepared & Analyzed: 03/23/16						
Total Alkalinity to pH 4.5	252	5.0	mg/L	250.0		101	90-110			
Duplicate (P6C0364-DUP1)		**Source: 6030354-06**		Prepared & Analyzed: 03/23/16						
Total Alkalinity to pH 4.5	9.90	5.0	mg/L		9.68			2	20	
Duplicate (P6C0364-DUP2)		**Source: 6030354-07**		Prepared & Analyzed: 03/23/16						
Total Alkalinity to pH 4.5	8.80	5.0	mg/L		8.36			5	20	
Batch P6C0368 - SM4500-S C										
Blank (P6C0368-BLK1)				Prepared & Analyzed: 03/22/16						
Sulfide	BRL	2.0	mg/L							
LCS (P6C0368-BS1)				Prepared & Analyzed: 03/22/16						
Sulfide	9.60	2.0	mg/L	10.00		96	70-130			
Matrix Spike (P6C0368-MS1)		**Source: 6030354-02**		Prepared & Analyzed: 03/22/16						
Sulfide	21.6	2.0	mg/L	20.00	3.60	90	70-130			
Matrix Spike Dup (P6C0368-MSD1)		**Source: 6030354-02**		Prepared & Analyzed: 03/22/16						
Sulfide	20.8	2.0	mg/L	20.00	3.60	86	70-130	4	20	

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Sample Extraction Data

Prep Method: SM4500-S C

Lab Number	Batch	Initial	Final	Date/Time
6030354-02	P6C0368	200 mL	200 mL	03/22/16 14:00
6030354-03	P6C0368	200 mL	200 mL	03/22/16 14:00
6030354-04	P6C0368	200 mL	200 mL	03/22/16 14:00
6030354-05	P6C0368	200 mL	200 mL	03/22/16 14:00
6030354-06	P6C0368	200 mL	200 mL	03/22/16 14:00
6030354-07	P6C0368	50 mL	50 mL	03/22/16 14:00

Prep Method: 3010A

Lab Number	Batch	Initial	Final	Date/Time
6030354-02	P6C0357	50 mL	50 mL	03/22/16 8:00
6030354-03	P6C0357	50 mL	50 mL	03/22/16 8:00
6030354-04	P6C0357	50 mL	50 mL	03/22/16 8:00
6030354-05	P6C0357	50 mL	50 mL	03/22/16 8:00
6030354-06	P6C0357	50 mL	50 mL	03/22/16 8:00
6030354-07	P6C0357	50 mL	50 mL	03/22/16 8:00

Prep Method: 5030B

Lab Number	Batch	Initial	Final	Date/Time
6030354-01	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-02	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-03	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-04	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-04	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-05	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-05	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-06	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-07	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-08	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-09	P6C0452	10 mL	10 mL	03/24/16 12:26
6030354-10	P6C0453	10 mL	10 mL	03/24/16 17:46
6030354-11	P6C0453	10 mL	10 mL	03/24/16 17:46

Subcontracted Analyses

The following analyses were subcontracted to Gulf Coast Analytical Labs, Inc.

Lab Number	Analysis
6030354-02	DOC (Sub)
6030354-02	TOC (Sub)
6030354-03	DOC (Sub)
6030354-03	TOC (Sub)
6030354-04	DOC (Sub)
6030354-04	TOC (Sub)
6030354-05	DOC (Sub)
6030354-05	TOC (Sub)
6030354-06	DOC (Sub)
6030354-06	TOC (Sub)
6030354-07	DOC (Sub)
6030354-07	TOC (Sub)

This report should not be reproduced, except in its entirety, without the written consent of Prism Laboratories, Inc.

449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC.
Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

CHAIN OF CUSTODY RECORD

PAGE 1 OF 2 QUOTE # TO ENSURE PROPER BILLING:

Project Name: ACME UNITED 2016 MNA GW Sampling
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements

Client Company Name: Mid-Atlantic Assoc
Report To/Contact Name: Don Nielsen
Reporting Address: 409 Rogers View Ct Raleigh, NC 27610
Phone: 919/250-9918 Fax (Yes) (No): 919/250-9950
Email Address:
EDD Type: PDF____ Excel____ Other____
Site Location Name:
Site Location Physical Address: 704 S. Wilson St Fremont, NC

Invoice To: SAME
Address:
Purchase Order No./Billing Reference: E1849.07

Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IRT-10 Observed: 3.6°C / Corr: 2.2°C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC____ SC____ OTHER____ N/A____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	8260 Carbon Tetrachloride	Nitrate from Ferrous Iron	Manganese	Nitrate	Sulfate	Sulfide	TOC	DOC Alkalinity	REMARKS	PRISM LAB ID NO.
Trip blank	3/18/16		H2O														01
MW-6		0840															02
MW-7		0930															03
MW-8		1132															04
MW-12		1100															05
MW-15		1010															06
MW-16		1154															07
Duplicate		1015															08
SS#1		1230															09
SS#4		1025															10

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature: [signature] Sampled By (Print Name): Gary A. Fisch Affiliation: MAA

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
[signature]			
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By: [signature]	Date 3/19/16	0907

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☒ Other FedEx 2-Cooler

COC Group No. 6030384

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____	☐ ____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

CHAIN OF CUSTODY RECORD

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions
449 Springbrook Road • Charlotte, NC 28217
Phone 704/529-6364 • Fax: 704/525-0409

PAGE 2 OF 2 QUOTE # TO ENSURE PROPER BILLING: _____

Project Name: ALMF UNITED 2016 MNA GW Sampling
Short Hold Analysis: (Yes) (No) UST Project: (Yes) (NO)
*Please ATTACH any project specific reporting (QC LEVEL I II III IV) provisions and/or QC Requirements
Invoice To: JAME
Address: _____

Client Company Name: Mid-Atlantic Assoc
Report To/Contact Name: Don Nielsen
Reporting Address: 409 Roger View Ct Raleigh, N.C. 27610
Phone: (919) 250-9916 Fax (Yes) (No) (919) 250-8950
Email Address: _____
EDD Type: PDF____ Excel____ Other_____
Site Location Name: _____
Site Location Physical Address: 701 S. Wilson St Fremont N.C.

Purchase Order No./Billing Reference R1849.07
Requested Due Date ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☐ 5 Days
"Working Days" ☐ 6-9 Days ☒ Standard 10 days ☐ Rush Work Must Be Pre-Approved
Samples received after 14:00 will be processed next business day.
Turnaround time is based on business days, excluding weekends and holidays.
(SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

LAB USE ONLY

	YES	NO	N/A
Samples INTACT upon arrival?	✓		
Received ON WET ICE?	✓		
PROPER PRESERVATIVES indicated?	✓		
Received WITHIN HOLDING TIMES?	✓		
CUSTODY SEALS INTACT?			✓
VOLATILES rec'd W/OUT HEADSPACE?	✓		
PROPER CONTAINERS used?	✓		

TEMP: Therm ID: IR20 Observed: 3.6°C / Corr: 2.2°C

TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL
Certification: NELAC____ DoD____ FL____ NC____ SC____ OTHER_____ N/A_____
Water Chlorinated: YES___ NO___
Sample Iced Upon Collection: YES___ NO___

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER *TYPE SEE BELOW	NO.	SIZE	PRESERVATIVES	ANALYSIS REQUESTED 8260						REMARKS	PRISM LAB ID NO.
SS#5	3/18/16	1304	H2O					✓							11

PRESS DOWN FIRMLY - 3 COPIES

Sampler's Signature [signature] Sampled By (Print Name) Gary A. Fissel Affiliation MAA

Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.

Relinquished By: (Signature)	Received By: (Signature)	Date	Military/Hours
Relinquished By: (Signature)	Received By: (Signature)	Date	
Relinquished By: (Signature)	Received For Prism Laboratories By:	Date 3/19/16	0907

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.
☐ Fed Ex ☐ UPS ☐ Hand-delivered ☐ Prism Field Service ☒ Other FEDEX

COC Group No. 0030354

Additional Comments:

PRISM USE ONLY
Site Arrival Time:
Site Departure Time:
Field Tech Fee:
Mileage:

SEE REVERSE FOR TERMS & CONDITIONS

NPDES:	UST:	GROUNDWATER:	DRINKING WATER:	SOLID WASTE:	RCRA:	CERCLA	LANDFILL	OTHER:
☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC	☐ NC ☐ SC
☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____	☐ _____

*CONTAINER TYPE CODES: A = Amber C = Clear G= Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

ORIGINAL

ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT
Prism Laboratories, Inc.
PO BOX 240543
Charlotte, NC 28224

ATTENTION
Angie Overcash

PROJECT ID
6030354

LABORATORY REPORT NUMBER
216032209

DATE
03/30/2016

Primary Data Review By

Authorized Signature

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical, Inc.
aamick@accessanalyticalinc.com

PLEASE NOTE:

- **Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 Innovation Park Dr., Baton Rouge, LA 70820.**
- **GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955**
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

GCAL
ANALYTICAL LABORATORIES, LLC

NELAP CERTIFICATE NUMBER: 01955
DOD ELAP CERTIFICATE NUMBER: L14-243

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 03/30/2016

GCAL Report 216032209

Project 6030354

Deliver To	*Additional Recipients*
Angie Overcash Prism Laboratories, Inc. PO BOX 240543 Charlotte, NC 28224 706-529-6364	NONE

PJLA
Testing
DoD ELAP

ISO
17025

NELAP ACCREDITED
TNI
LABORATORY

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
DL	Diluted analysis – when appended to Client Sample ID
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
CF	HPLC or GC Confirmation
00:01	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*****	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	The result is estimated because it exceeded the instrument calibration range
E	Metals - % diference for the serial dilution is > 10%
P	RPD between primary and confirmation result is greater than 40

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with The NELAC Institute (TNI) Standard 2009 and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

Karen Melerine/Mng Data Del

Authorized Signature
GCAL Report 216032209

Certifications

Certification	Certification Number
DOD ELAP	L14-243
Alabama	01955
Arkansas	12-060-0
Colorado	01955
Delaware	01955
Florida	E87854
Georgia	01955
Hawaii	01955
Idaho	01955
Illinois	200048
Indiana	01955
Kansas	E-10354
Kentucky	95
Louisiana	01955
Maryland	01955
Massachusetts	01955
Michigan	01955
Mississippi	01955
Missouri	01955
Montana	N/A
Nebraska	01955
New Mexico	01955
North Carolina	618
North Dakota	R-195
Oklahoma	9403
South Carolina	73006001
South Dakota	01955
Tennessee	01955
Texas	T104704178
Vermont	01955
Virginia	460215
USDA Soil Permit	P330-10-00117

Case Narrative

Client: Access Analytical **Report:** 216032209

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

CONVENTIONALS

In the SM 5310 B-2011 Dissolved Organic Carbon analysis for analytical batch 582648, a duplicate and matrix spike were not performed due to limited sample volume.

In the SM 5310 B-2011 Total Organic Carbon analysis, a chemical or physical interference necessitated a dilution for sample 21603220904 (MW-12). This is reflected in the elevated reporting limit.

Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21603220901	MW-6	Water	03/18/2016 08:40	03/22/2016 10:15
21603220902	MW-7	Water	03/18/2016 09:30	03/22/2016 10:15
21603220903	MW-8	Water	03/18/2016 11:32	03/22/2016 10:15
21603220904	MW-12	Water	03/18/2016 11:00	03/22/2016 10:15
21603220905	MW-15	Water	03/18/2016 10:10	03/22/2016 10:15
21603220906	MW-16	Water	03/18/2016 11:54	03/22/2016 10:15

Summary of Compounds Detected

MW-6

Collect Date 03/18/2016 08:40 | GCAL ID 21603220901
Receive Date 03/22/2016 10:15 | Matrix Water

SM 5310 B-2011

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	5.8	0.30	2.0	mg/L
C-012	Total Organic Carbon	4.7	0.30	2.0	mg/L

MW-7

Collect Date 03/18/2016 09:30 | GCAL ID 21603220902
Receive Date 03/22/2016 10:15 | Matrix Water

SM 5310 B-2011

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	4.6	0.30	2.0	mg/L
C-012	Total Organic Carbon	1.7J	0.30	2.0	mg/L

MW-8

Collect Date 03/18/2016 11:32 | GCAL ID 21603220903
Receive Date 03/22/2016 10:15 | Matrix Water

SM 5310 B-2011

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	5.3	0.30	2.0	mg/L
C-012	Total Organic Carbon	3.6	0.30	2.0	mg/L

MW-12

Collect Date 03/18/2016 11:00 | GCAL ID 21603220904
Receive Date 03/22/2016 10:15 | Matrix Water

SM 5310 B-2011

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	5.2	0.30	2.0	mg/L
C-012	Total Organic Carbon	4.1J	1.5	10.0	mg/L

Summary of Compounds Detected

MW-15	Collect Date	03/18/2016 10:10	GCAL ID	21603220905
	Receive Date	03/22/2016 10:15	Matrix	Water

SM 5310 B-2011

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	5.0	0.30	2.0	mg/L
C-012	Total Organic Carbon	0.32J	0.30	2.0	mg/L

MW-16	Collect Date	03/18/2016 11:54	GCAL ID	21603220906
	Receive Date	03/22/2016 10:15	Matrix	Water

SM 5310 B-2011

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	7.4	0.30	2.0	mg/L
C-012	Total Organic Carbon	5.6	0.30	2.0	mg/L

Sample Results

MW-6	**Collect Date**	03/18/2016 08:40	**GCAL ID**	21603220901
	Receive Date	03/22/2016 10:15	**Matrix**	Water

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/23/2016 21:48	CAW	582236

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	4.7	0.30	2.0	mg/L

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/29/2016 21:52	CAW	582648

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	5.8	0.30	2.0	mg/L

MW-7	**Collect Date**	03/18/2016 09:30	**GCAL ID**	21603220902
	Receive Date	03/22/2016 10:15	**Matrix**	Water

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/23/2016 22:19	CAW	582236

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	1.7J	0.30	2.0	mg/L

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/29/2016 22:11	CAW	582648

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	4.6	0.30	2.0	mg/L

Sample Results

MW-8	Collect Date	03/18/2016 11:32	GCAL ID	21603220903
	Receive Date	03/22/2016 10:15	Matrix	Water

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/23/2016 22:37	CAW	582236

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	3.6	0.30	2.0	mg/L

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/29/2016 22:28	CAW	582648

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	5.3	0.30	2.0	mg/L

MW-12	Collect Date	03/18/2016 11:00	GCAL ID	21603220904
	Receive Date	03/22/2016 10:15	Matrix	Water

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5	03/23/2016 23:08	CAW	582236

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	4.1J	1.5	10.0	mg/L

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/29/2016 22:47	CAW	582648

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	5.2	0.30	2.0	mg/L

Sample Results

MW-15	**Collect Date**	03/18/2016 10:10	**GCAL ID**	21603220905
	Receive Date	03/22/2016 10:15	**Matrix**	Water

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/23/2016 23:27	CAW	582236

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	0.32J	0.30	2.0	mg/L

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/29/2016 23:04	CAW	582648

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	5.0	0.30	2.0	mg/L

MW-16	**Collect Date**	03/18/2016 11:54	**GCAL ID**	21603220906
	Receive Date	03/22/2016 10:15	**Matrix**	Water

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/23/2016 23:45	CAW	582236

CAS#	Parameter	Result	DL	LOQ	Units
C-012	Total Organic Carbon	5.6	0.30	2.0	mg/L

SM 5310 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	03/29/2016 23:27	CAW	582648

CAS#	Parameter	Result	DL	LOQ	Units
WET-007	Dissolved Organic Carbon	7.4	0.30	2.0	mg/L

General Chemistry QC Summary

Analytical Batch 582236	Client ID	MB582236		LCS582236				LCSD582236				
	GCAL ID	1552317		1552318				1552319				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	03/23/2016 12:30		03/23/2016 11:33				03/23/2016 14:44				
	Matrix	Water		Water				Water				
SM 5310 B-2011		Units Result	mg/L DL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	0.30U	0.30	50.0	45.7	91	90 - 110	50.0	45.8	92	0	20

Analytical Batch 582236	Client ID	EASC-996, SP011		1551799MS				1551799MSD				
	GCAL ID	21603212704		1552320				1552321				
	Sample Type	SAMPLE		MS				MSD				
	Prep Date	NA		NA				NA				
	Analysis Date	03/24/2016 08:54		03/24/2016 09:12				03/24/2016 09:33				
	Matrix	Water		Water				Water				
SM 5310 B-2011		Units Result	mg/L DL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	62.8	3.0	500	547	97	80 - 120	500	525	92	4	20

Analytical Batch 582236	Client ID	EASC-999, SP019		1552091MS				1552091MSD				
	GCAL ID	21603221301		1552322				1552323				
	Sample Type	SAMPLE		MS				MSD				
	Prep Date	NA		NA				NA				
	Analysis Date	03/24/2016 11:12		03/24/2016 11:36				03/24/2016 11:51				
	Matrix	Water		Water				Water				
SM 5310 B-2011		Units Result	mg/L DL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Organic Carbon	C-012	68.1	3.0	500	551	97	80 - 120	500	520	90	6	20

Analytical Batch 582648	Client ID	MB582648		LCS582648				LCSD582648				
	GCAL ID	1553978		1553979				1553980				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	03/29/2016 21:33		03/29/2016 20:46				03/29/2016 23:54				
	Matrix	Water		Water				Water				
SM 5310 B-2011		Units Result	mg/L DL	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Dissolved Organic Carbon	WET-007	0.30U	0.30	50.0	47.1	94	90 - 110	50.0	48.8	98	4	20

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Client ID: 4565 - Access Analytical
SDG: 216032209
PM: SAK

SUBCONTRACT ORDER
Prism Laboratories, Inc.
6030354

Certification: NELAC___ USACE___
NC ✓ SC___ Other _____
N/A_____

SENDING LABORATORY:
Prism Laboratories, Inc.
P. O. Box 240543
Charlotte, NC 28224-0543
Phone: 800-529-6364
Fax: 704-525-0409
Project Manager: Angela D. Overcash

RECEIVING LABORATORY:
Gulf Coast Analytical Labs, Inc.
7979 GSRI Avenue
Baton Rouge, LA 70820
Phone :(225) 769-4900
Fax: (225) 767-5717

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 6030354-02	**Water**	**Sampled:03/18/16 08:40**	MW-6	1
TOC (Sub)		04/15/16 08:40		
DOC (Sub)		04/15/16 08:40		
Containers Supplied:				
Sample ID: 6030354-03	**Water**	**Sampled:03/18/16 09:30**	MW-7	2
TOC (Sub)		04/15/16 09:30		
DOC (Sub)		04/15/16 09:30		
Containers Supplied:				
Sample ID: 6030354-04	**Water**	**Sampled:03/18/16 11:32**	MW-8	3
TOC (Sub)		04/15/16 11:32		
DOC (Sub)		04/15/16 11:32		
Containers Supplied:				
Sample ID: 6030354-05	**Water**	**Sampled:03/18/16 11:00**	MW-12	4
TOC (Sub)		04/15/16 11:00		
DOC (Sub)		04/15/16 11:00		
Containers Supplied:				

Released By	Date	Received By	Date
[signature]	3/21/16	Fedex	3/21/16
Fedex	3/22/16 1015	[signature]	3-22-16 1015

0.2°C EX 36gpm 7759 2563 7087

SUBCONTRACT ORDER

Prism Laboratories, Inc.

6030354

Certification: NELAC___ USACE___
NC___ SC___ Other _____
N/A_____

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 6030354-06	**Water**	**Sampled:03/18/16 10:10**		5
DOC (Sub)		04/15/16 10:10		
TOC (Sub)		04/15/16 10:10		
Containers Supplied:				
Sample ID: 6030354-07	**Water**	**Sampled:03/18/16 11:54**		6
TOC (Sub)		04/15/16 11:54		
DOC (Sub)		04/15/16 11:54		
Containers Supplied:				

Client ID: 4505 - Access Analytical
SDG: 216032209
PM: SAK

Released By	Date	Received By	Date
[signature]	3/21/16	Fedex	3/21/16
Fedex	3/21/16 1015	[signature]	3-22-16 1015

0.2°C E26 36cpm 7759 2563 7087

Checklist

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

216032209

SAMPLE DELIVERY GROUP 216032209	
Client PM SAK 4565 - Access Analytical	Transport Method FEDEX
Profile Number 80251	Received By Lofton, Katie E.
Line Item(s) 34 - Water-TOC/ MEE /Formaldehyde	Receive Date(s) 03/22/16

CHECKLIST	YES	NO	NA
Samples received with proper thermal and chemical preservation?	✓		
Radioactivity is <1600 cmp? If no, record cmp value in notes section.	✓		
Custody seals present and intact?	✓		
COC relinquished and complete (including sample IDs, collect dates/times, and sampler name)?		✓	
Short holds or RUSH samples received?		✓	
All containers received in good condition and within hold time?	✓		
All sample labels and containers received match the chain of custody?	✓		
Preservation checked at receipt? Exceptions: VOC, Coliform, TOC, Oil and Grease, DOC			✓
Preservative added to any containers?		✓	
VOC water containers received with headspace < 6mm?			✓
Received filtered sample volume for dissolved analysis?			✓
Trip blank present in all coolers containing VOC waters?			✓
Samples collected in containers provided by GCAL?		✓	

COOLERS	
Airbill Thermometer ID: E26	Temp(°C)
7759 2563 7087	0.2

DISCREPANCIES	LAB PRESERVATIONS
None	None

NOTES

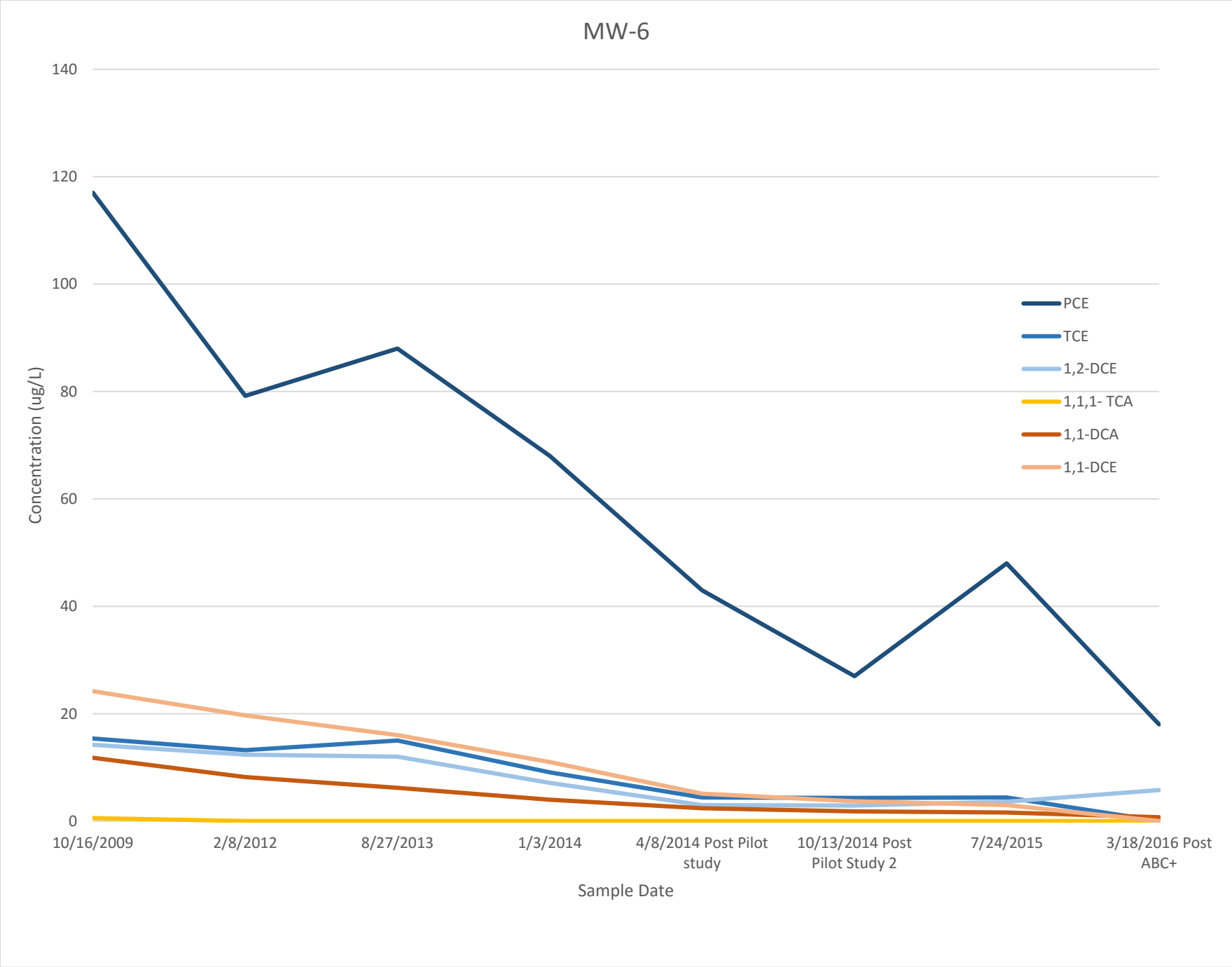
Revision 1.5

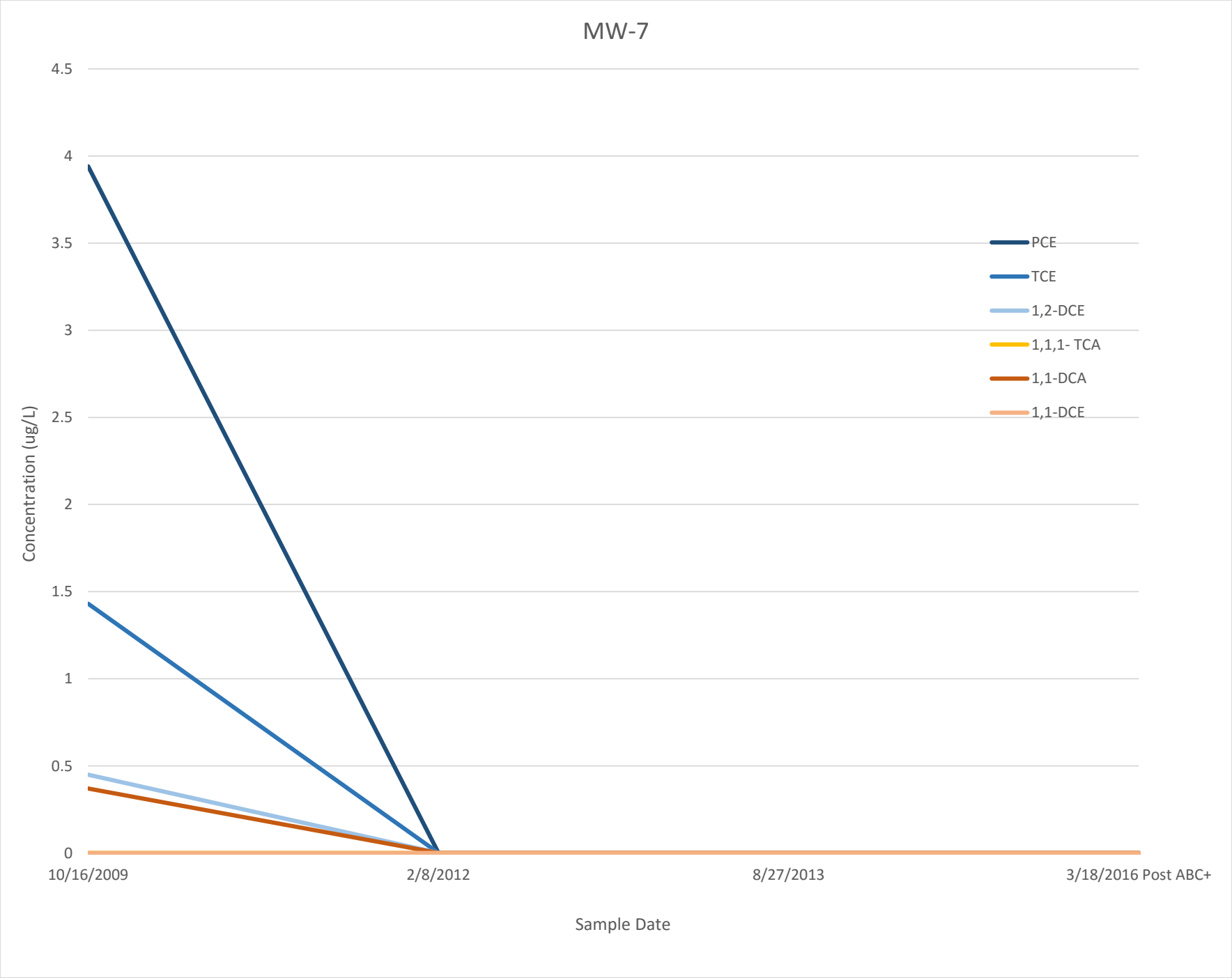
Page 1 of 1

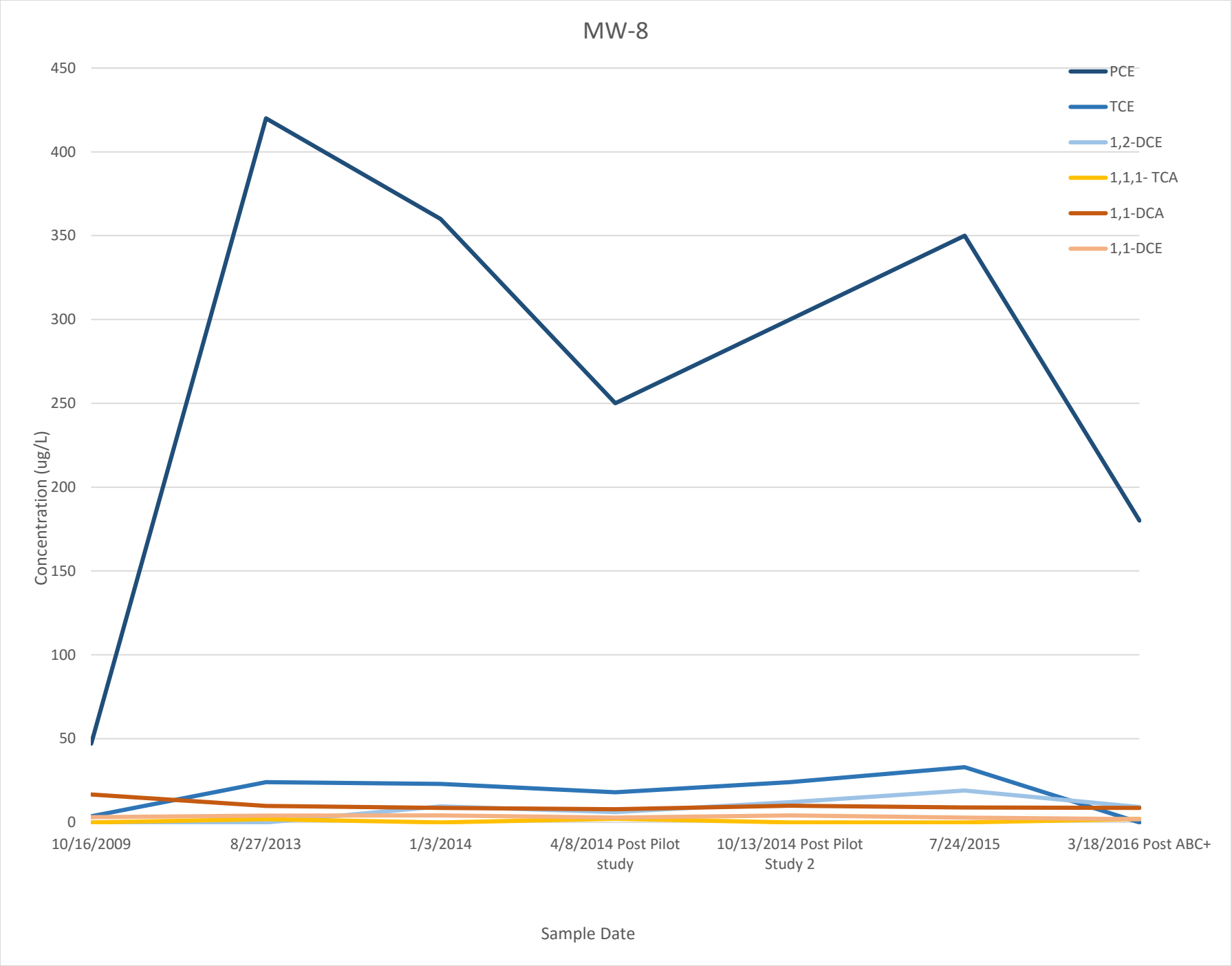
APPENDIX C

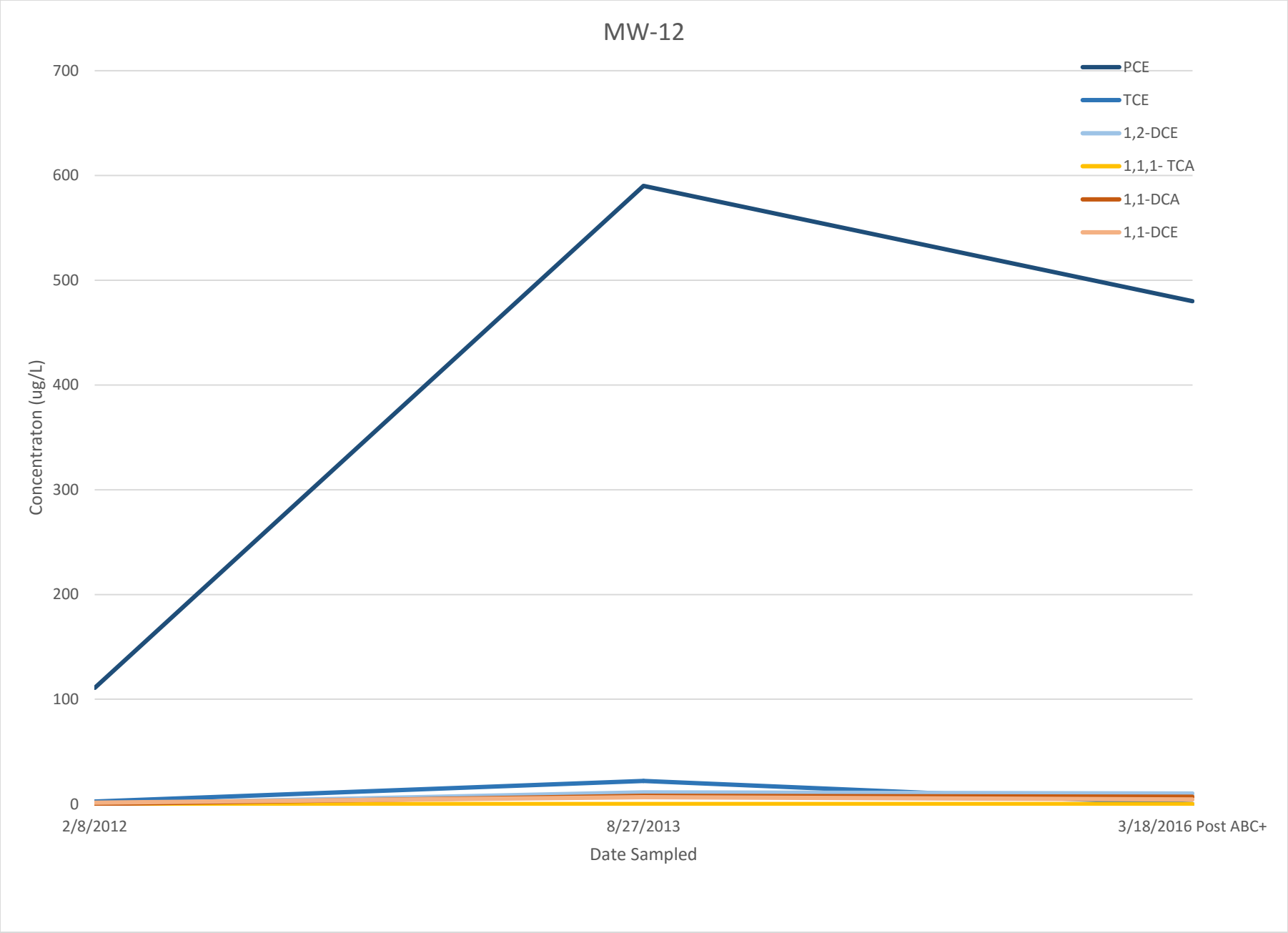
GRAPHICAL REPRESENTATION OF CHEMICAL CONSTITUENTS IN GROUNDWATER WELLS OVER TIME

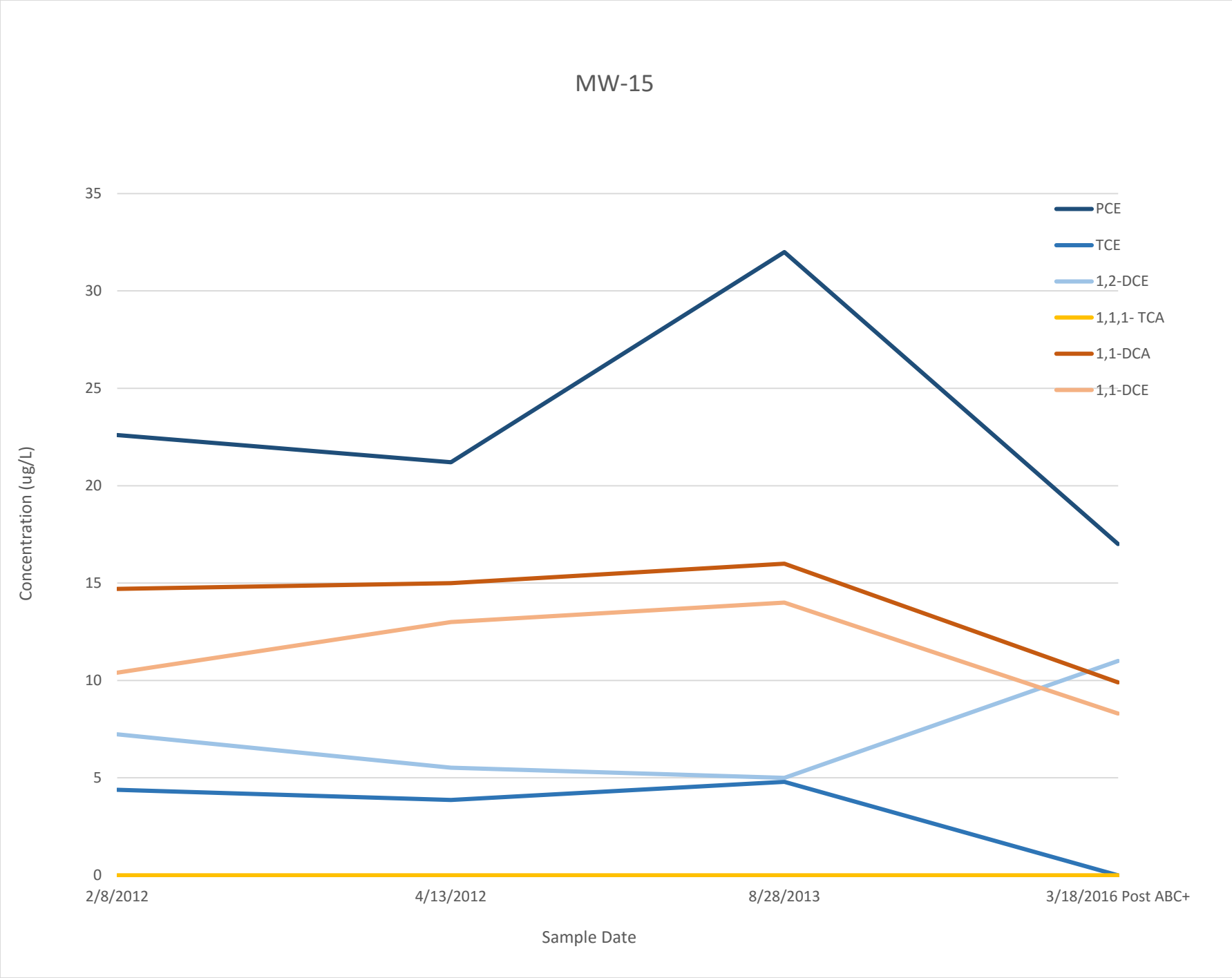
Mid Atlantic
Engineering & Environmental Solutions

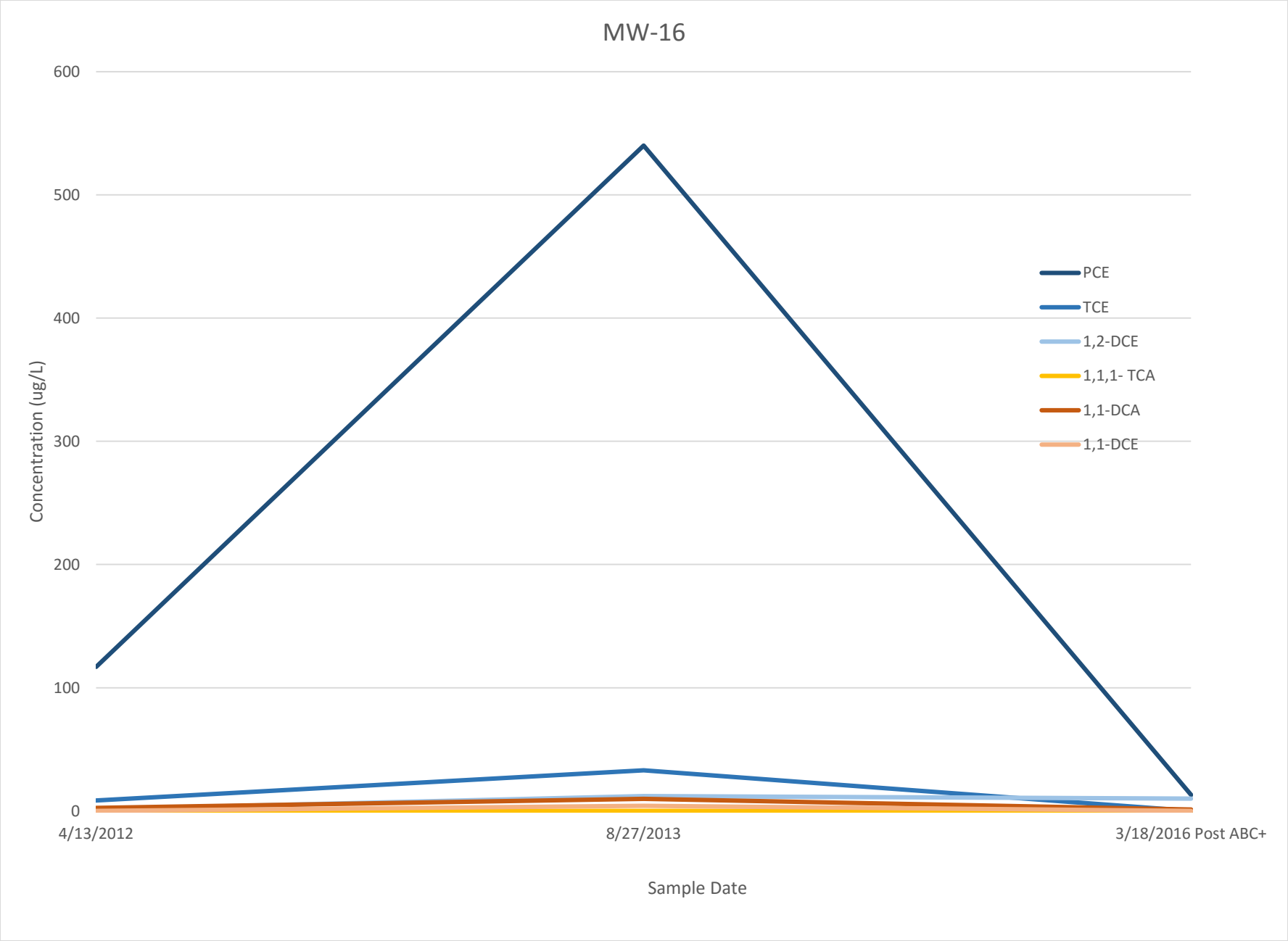

MW-6
140
120
100
80
60
40
20
0
Concentration (ug/L)
PCE
TCE
1,2-DCE
1,1,1- TCA
1,1-DCA
1,1-DCE
10/16/2009
2/8/2012
8/27/2013
1/3/2014
4/8/2014 Post Pilot study
10/13/2014 Post Pilot Study 2
7/24/2015
3/18/2016 Post ABC+
Sample Date


MW-7
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
Concentration (ug/L)
10/16/2009
2/8/2012
8/27/2013
3/18/2016 Post ABC+
Sample Date
PCE
TCE
1,2-DCE
1,1,1- TCA
1,1-DCA
1,1-DCE


MW-8
450
400
350
300
250
200
150
100
50
0
Concentration (ug/L)
PCE
TCE
1,2-DCE
1,1,1- TCA
1,1-DCA
1,1-DCE
10/16/2009
8/27/2013
1/3/2014
4/8/2014 Post Pilot study
10/13/2014 Post Pilot Study 2
7/24/2015
3/18/2016 Post ABC+
Sample Date


MW-12
700
600
500
400
300
200
100
0
Concentraton (ug/L)
2/8/2012
8/27/2013
3/18/2016 Post ABC+
Date Sampled
PCE
TCE
1,2-DCE
1,1,1- TCA
1,1-DCA
1,1-DCE


MW-15
35
30
25
20
15
10
5
0
Concentration (ug/L)
2/8/2012
4/13/2012
8/28/2013
3/18/2016 Post ABC+
Sample Date
PCE
TCE
1,2-DCE
1,1,1- TCA
1,1-DCA
1,1-DCE


MW-16
600
500
400
300
200
100
0
Concentration (ug/L)
4/13/2012
8/27/2013
3/18/2016 Post ABC+
Sample Date
PCE
TCE
1,2-DCE
1,1,1- TCA
1,1-DCA
1,1-DCE