2015 ANNUAL PROGRESS REPORT AND REMEDIAL PROGRESS EVALUATION

FORMER TAYLOR INSTRUMENTS SITE
95 AMES STREET
ROCHESTER, NEW YORK

PREPARED FOR:

ABB, INC.
5 WATERSIDE CROSSING
WINDSOR, CT 06095

PREPARED BY:

AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC.
2030 FALLING WATERS ROAD, SUITE 300
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AMEC FOSTER WHEELER PROJECT 3031052006

February 2016

amec
foster
wheeler

February 22, 2016

Mr. Frank Sowers
Environmental Engineer II
NYSDEC
Division of Environmental Remediation
6274 East Avon-Lima Road
Avon, NY 14414-9519

Subject: **2015 Annual Progress Report and Remedial Progress Evaluation**
Voluntary Cleanup Agreement (VCA) Index B8-0508-97-02
Former Taylor Instruments Facility
Rochester, New York
AMEC Project 3031152028

Dear Mr. Sowers:

In accordance with Section X.I.B. of the Taylor Instruments Site Voluntary Cleanup Agreement, enclosed please find one hard copy and one electronic copy of the 2015 Annual Progress Report and Remedial Progress Evaluation. The Periodic Review Report is included as an Appendix.

If you have any questions, please call me at (865) 671-6774.

Sincerely,

Amec Foster Wheeler Environment & Infrastructure, Inc.

Ricky A. Ryan, P.E.
Senior Principal Project Manager

K. Joe Deatherage
Senior Environmental Engineer

Enclosures

cc: Bart Putzig, NYSDEC (w/o enclosure [*electronic*])
John Frazer, MCDOH (w/o enclosure)
Justin Deming, NYSDOH (w/ 1 electronic enclosure)
Jean McCreary, Nixon Peabody LLP (w/ 1 electronic enclosure)
Robert H. Fetter, Thermo Fisher Scientific (w/ 1 electronic enclosure)
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LIST OF ACRONYMS

µg/L	micrograms per liter
µmole/L	micromoles per liter
3DMe®	3-D Microemulsion®
AMEC	AMEC Environment & Infrastructure, Inc.
Amec Foster Wheeler	Amec Foster Wheeler Environment & Infrastructure, Inc.
COC	contaminant of concern
1,1-DCE	1,1-dichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
EPA	Environmental Protection Agency
MS	matrix spike
MS/MSD	matrix spike/matrix spike duplicate
MSD	matrix spike duplicate
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PARCC	precision, accuracy, representativeness, completeness, and comparability
PCE	tetrachloroethene
QC	quality control
RPD	relative percent difference
SSD	sub-slab depressurization
SSVIA	sub-slab vapor and indoor air
Site	former Taylor Instruments Site
TCE	trichloroethene
VFA	volatile fatty acid
VC	vinyl chloride
VOC	volatile organic compound

1.0 INTRODUCTION

This annual progress report summarizes the results from site wide groundwater sampling events conducted in May and October 2015 and the results from a sub-slab vapor and indoor air (SSVIA) sampling event performed in February 2015. These activities occurred at the former Taylor Instruments Site – New York State Department of Environmental Conservation (NYSDEC) Site #828028a located at 95 Ames Street in Rochester, New York (Figure 1 in Appendix A), pursuant to a Voluntary Cleanup Agreement (NYSDEC, 1997). The 2015 groundwater sampling events were the fifth year of sampling since Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler), formerly AMEC Environment & Infrastructure, Inc. (AMEC) completed an expanded accelerated bioremediation application using 3-D Microemulsion® (3DMe®) in 2010 as the final required active Site remediation. This continued remedial evaluation is consistent with the statement of remedial action objectives in Section 2.2 of the approved *Remedial Work Plan* (Harding Lawson Associates, 2000); to demonstrate a downward trend in volatile organic compound (VOC) concentrations achieved using a combination of active, passive, and accelerated biodegradation remedial technology approaches. All activities described herein are also consistent with an assignable release for the Site, granted by the NYSDEC via letter dated September 2, 2005 (NYSDEC, 2005). In the same letter, NYSDEC approved previous remedial activities as implemented and determined that no further investigation or response would be required at the Site to render it safe for contemplated uses.

Details of the Site investigation and remedial history, including the certification of engineering and institutional controls, are presented in the *Periodic Review Report,* which is provided in Appendix B of this report as requested by NYSDEC (NYSDEC, 2016).

The first semi-annual groundwater sampling event for 2015 was conducted in May and the second in October. A summary of the sampling event results for the 3DMe® baseline event, as well as events from 2001-2015, are also included.

A SSVIA sampling event was performed in February 2015 at the residence located at 80 Ames Street which is adjacent to the Site. A summary of the results and the NYSDEC recommendations are included in this report.

Following decommissioning of the remedial treatment system and selected monitoring wells in 2010, 14 monitoring wells remain on the Site, as shown in Figure 1 (Appendix A). Unless otherwise agreed to by NYSDEC, contaminant conditions will continue to be monitored until groundwater concentrations of the contaminants of concern (COCs) are at or below the NYSDEC Class GA Standards.

2.0 GROUNDWATER MONITORING

2.1 SCOPE OF WORK

Amec Foster Wheeler personnel performed the May and October sampling events to provide an inclusive set of groundwater analytical data for the 2015 reporting period. During each event, 20 samples were collected and submitted to Test America, Inc. for VOC analyses by U.S. Environmental Protection Agency (EPA) Method 8260C (Table 1, Appendix C). As approved by NYSDEC in the revised 2011 *Operations, Maintenance, and Monitoring Manual* (MACTEC, 2011), the May 2015 samples were analyzed for the six primary COCs remaining at the Site: tetrachloroethene (PCE); trichloroethene (TCE); cis-1,2-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene (trans-1,2-DCE); 1,1-dichloroethene (1,1-DCE); and vinyl chloride. Additionally as detailed in the manual, the October 2015 samples were analyzed for the full suite of 8260C constituents (a requirement every five years). The results for the 2015 sampling events are presented in tables in Appendix C. Additionally, to further assess biological parameters supportive for contaminant degradation, selected samples were also analyzed for sulfate by EPA Method 300, methane/ethane by Method EPA RSK175, and volatile fatty acids (VFA's) by Method AM23G. The methane/ethane and VFA samples were analyzed by Microseeps/Pace Analytical Energy Services, LLC. The results for these parameters are included in the laboratory reports in Appendix D. Data for dissolved oxygen, oxygen reduction potential, pH, and temperature were also collected in the field during the sampling events. Six of the 20 samples collected for each event were associated with quality control efforts. All environmental samples, including field duplicates and matrix spike/matrix spike duplicate (MS/MSD) samples, were collected using a low-flow peristaltic pump at flow rates <400 milliliters per minute.

Analytical results from the 14 remaining Site wells are presented in Figures 2 and 3 (Appendix A). Laboratory reports and chain-of-custody forms for the 2015 samples are located in Appendix D. Purge and sample field data are presented in the field data records located in Appendix E.

2.2 SUMMARY OF RESULTS

This section presents the results of the groundwater sampling events conducted during 2015. As detailed below, the results from both the May and October events showed the effects of subsequent enhanced biodegradation from the 3DMe® application. The results summary focuses primarily on the most recent October 2015 results. Tables 1 and 2 (Appendix C) summarize the monitoring well locations with COCs exceeding NYSDEC Class GA Standards for overburden and bedrock monitoring wells, respectively.

Tables 3 and 4 (Appendix C) show a historical summary of analytical results for the remaining overburden and bedrock monitoring wells, respectively, shown on Figure 1 (Appendix A). Sample VOC results are also presented in "flag boxes" shown on Figures 2 and 3 (Appendix A), representing overburden monitoring wells and bedrock monitoring wells, respectively. Complete laboratory analytical data reports for the 2015 events are included in Appendix D. Well construction information is provided in Appendix F.

While certain COCs remain above the NYSDEC Class GA Standards, substantial declines of COC concentrations have been observed in all Site monitoring wells. The greatest decrease has been within the two former source areas, as COCs are near or below their respective NYSDEC Class GA standards in South Source Area monitoring well OB-04 and North Source Area monitoring wells OB-08 and BR-15, as shown in Figures 2 and 3 (Appendix A).

COCs in four of the eight overburden wells are presently near or below the NYSDEC Class GA standards, including TW-04 along the downgradient eastern property boundary. It is also notable that the total contaminant mass of the overburden wells in May 2015 was the lowest since the 2010 3DMe® injection.

As shown in Tables 1 and 2 (Appendix C) in October 2015, PCE was not detected at any location over the NYSDEC Class GA Standard of 5 micrograms per liter (µg/L); TCE was detected above the NYSDEC Class GA Standard of 5 µg/L in the groundwater samples collected from four overburden monitoring wells and five bedrock monitoring wells; cis-1,2-DCE was detected above the NYSDEC Class GA Standard of 5 µg/L in the groundwater samples collected from five overburden monitoring wells and five bedrock monitoring wells; trans-1,2-DCE was detected above the NYSDEC Class GA Standard of 5 µg/L in the groundwater samples collected from three overburden monitoring wells and three bedrock monitoring wells; 1,1-DCE was detected above the NYSDEC Class GA Standard of 5 µg/L in the groundwater samples collected from one bedrock monitoring well; and vinyl chloride was detected above the NYSDEC Class GA Standard of 2 µg/L in the groundwater samples collected from five overburden monitoring wells and four bedrock monitoring wells.

Following the expanded accelerated bioremediation application of 3DMe® in the overburden groundwater, total contaminant mass peaked at 185 micromoles per liter (µmole/L) in May 2011. However, since then the total contaminant mass has dropped significantly and in October 2015, five years after the injection, total contaminant mass is at 4.2 µmole/L. In May 2015, the total contaminant mass was at 3.2 µmole/L,

the lowest ever. The October 2015 total contaminant mass is 77% lower than in May 2011. Looking at specific COCs, the TCE contaminant mass in overburden wells has decreased steadily from 8.8 µmole/L prior to injection to 1.5 µmole/L in October 2015, demonstrating that the 3DMe® has been effective in reducing site source contamination. Cis-1,2-DCE increased from 2.4 µmole/L prior to injection to 7.1 µmole/L in May 2011 after the injection, but has since decreased to 1.2 µmole/L in October 2015. Vinyl chloride increased from 0.8 µmole/L prior to injection to 4.8 µmole/L after the injection in May 2011, but decreased to 1.2 µmole/L in October 2015. All other COCs are at minimal concentrations or were not detected. The overburden contaminant mass values are depicted on Figure 4 (Appendix A). The substantial decreases in contaminant mass indicate that the 3DMe® has enhanced contaminant biodegradation.

While substantial decreases in contaminant mass have been noted in the affected overburden groundwater, the corresponding response in the bedrock groundwater has been slower, though an overall decreasing trend has been evident since May 2012. Looking at specific COCs, the TCE contaminant mass has decreased from 14.2 µmole/L in the May 2010 pre-injection baseline event to 7.2 µmole/L in October 2015, a 49% decrease from May 2010; the cis-1,2-DCE contaminant mass has increased from 7.5 µmole/L in May 2010 to 20.7 µmole/L in October 2015, likely influenced by the degradation of TCE; and the vinyl chloride contaminant mass has increased from 0.1 µmole/L in May 2010 to 4.7 µmole/L in October 2015, reflecting biodegradation of TCE and cis-1,2-DCE. All other COCs have had lower concentrations or were not detected. Although historically bedrock concentrations have varied considerably, the overall decreasing trend since 2012, as well as, the overall decreases in TCE contaminant mass in correlation with overall more recent increases in TCE daughter products (cis-1,2-DCE and vinyl chloride) indicate that the bedrock groundwater has been affected by the enhanced contaminant biodegradation in the overburden groundwater. Specific evidence of this is in former North TCE Source Area bedrock well BR-15 where following the 2010 injection COCs have decreased to near or below their NYSDEC Class GA standards.

Five years after completion of the expanded accelerated bioremediation application using 3DMe® in 2010 as the final required active Site remediation, the overburden groundwater contaminant plume in the southern portion of the Site is now stable. As shown in Figure 6 (Appendix A), downgradient perimeter monitoring well TW-04 has had COCs near or below their respective NYSDEC Class GA standards since May 2012, with only very low concentrations of cis-1,2-DCE having been detected during that period. We note that cis-1,2-DCE in TW-04 has statistically averaged below its NYSDEC Class GA standard during this period. Additionally, cis-1,2-DCE has been below its NYSDEC Class GA standard in

upgradient source area well OB-04 since May 2012 (Figure 6), so the source of the remaining low cis-1,2-DCE concentrations in TW-04 has been remediated. Source area monitoring well OB-04 also has had COC's near or below their respective NYSDEC Class GA standards since May 2012, with only very low concentrations of vinyl chloride having been detected during that period. We note that vinyl chloride has never been detected in perimeter monitoring well TW-04 since its initial sampling event in 1997, despite vinyl chloride in OB-04 having been much higher historically, therefore it is unlikely that the remaining very low concentrations in OB-04 would impact downgradient perimeter well TW-04. Downgradient plume monitoring well OB-06 has also has had stable to declining COC's since November 2013 (Figure 6), demonstrating stability in the interior of the south overburden plume. The COCs in OB-06 which presently exceed their NYSDEC Class GA standards are TCE, cis-1,2-DCE, and vinyl chloride; however, in upgradient well OB-04 TCE and cis-1,2-DCE are below their NYSDEC Class GA standard and vinyl chloride is comparable to that in OB-06, therefore, the remaining mass in the plume interior should remain stable to declining going forward.

Based on the demonstrated stable plume and a related discussion with the NYSDEC on January 6, 2015 (Amec Foster Wheeler, 2016), Amec Foster Wheeler recommends that overburden monitoring wells OB-04, OB-06, and TW-04 be abandoned, as we believe that the 11 monitoring wells remaining afterward would be sufficient to monitor the remaining portions of the groundwater contaminant plume. Pending approval from the NYSDEC, we will arrange to have the monitoring wells abandoned in accordance with NYSDEC groundwater monitoring well decommissioning procedures.

2.3 POTENTIOMETRIC SURFACE

Associated with each monitoring event, a potentiometric surface map was generated to depict groundwater elevations for the overburden groundwater. AutoCAD 2014 was used to plot the potentiometric surface maps in Figures 7 and 9 (Appendix A). The programs mathematically calculate contours based upon groundwater elevation measurements collected in the field.

The May and October 2015 overburden potentiometric maps (Figures 7 and 9 in Appendix A) were based upon water level information collected during the course of sampling activities on the subject Site. Overburden potentiometric surface mapping for the water level events is comparable to past groundwater mapping indicating groundwater flow is generally to the northeast.

The bedrock water level data cannot readily be plotted due to the large variation in elevation heads. These variations are due to the fractured bedrock system. The head data appears to be bi-modally distributed possibly reflecting differing elevations of water bearing fractures. The historical absence of contaminants at the southwest corner of the Site and their presence in wells along the north and east Site perimeters also support the interpretation that bedrock groundwater flow beneath the two former source areas is generally towards the north/northeast. Bedrock water level elevations are presented on Figures 8 and 10 in Appendix A.

3.0 SUB-SLAB VAPOR AND INDOOR AIR SAMPLING

3.1 SCOPE OF WORK

During February 2015, Amec Foster Wheeler collected sub-slab vapor and indoor air (SSVIA) samples from the residence at 80 Ames Street to determine if continued operation of a sub-slab depressurization (SSD) system as a precautionary measure was still warranted. The sampling was performed because overburden groundwater monitoring well TW-04, which is located on the Former Taylor Instruments Site, across the street from the SSD system (see Figure 1 in Attachment A), has had non-detectable levels of TCE (<1 microgram per liter [µg/L]) since 2012. Therefore, it appears TCE is no longer present in the overburden Site groundwater immediately upgradient of the 80 Ames Street residence. The investigation was conducted in accordance with Amec Foster Wheeler's *Work Plan for Sub-Slab Vapor and Indoor Air Investigation* (MACTEC, 2009) and subsequent addendum (AMEC, 2014). A total of four samples were collected at the residence: one sub-slab vapor sample, one indoor air sample, one duplicate indoor air sample, and one outdoor ambient air sample. The sampling event occurred over an approximate 24-hour period. The air samples were collected with the procedures and techniques described in the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006* (NYSDOH, 2006). All vapor samples were submitted to Con-Test Analytical Laboratory for analyses of four COCs: PCE, TCE, cis-1,2-DCE and VC.

3.2 SUMMARY OF RESULTS

Based on the analytical results the NYSDOH matrix table recommendation was for monitoring at the residence (based on TCE), however, as recommended by the NYSDEC (NYSDEC, 2015), ABB will continue operation of the SSD system in lieu of monitoring. The complete results from the SSVIA sampling event were provided in the Amec Foster Wheeler's *Report for Sub-Slab Vapor and Indoor Air Sampling Event* (Amec Foster Wheeler, 2015).

4.0 ANALYTICAL PROGRAM

Overall data quality is assessed by grouping particular data evaluation findings and reviewing them in terms of accuracy, precision, representativeness, completeness, and comparability (PARCC) criteria. Data generated during this monitoring period were evaluated for PARCC criteria after receipt of all analytical data.

4.1 ACCURACY

Accuracy is a quantitative measurement of agreement between an analytical result and the true value. Accuracy is determined by comparing known amounts of analytes, which are added to the sample prior to analysis, to the field analytical results. Accuracy is expressed as a percentage of recovery of the total amount of spiked analyte. For VOC analyses, each sample was spiked with surrogate compounds prior to analysis (and extraction), and chosen samples were spiked (in duplicate) with additional spikes [Matrix Spike (MS) and Matrix Spike Duplicate (MSD)]. Surrogate and MS/MSD recoveries evaluate accuracy and identify interferences from the sample matrix and were acceptable for VOC analysis for these sampling events.

4.2 PRECISION

Precision is a quantitative evaluation of the repeatability of a measurement. Precision of analytical measurements is determined by calculating the relative percent difference (RPD) between the two numerical values. For precision, the matrix spike (MS) is performed in duplicate, and the values from both analyses are evaluated. Comparison of results from duplicate field samples may also be indicative of overall precision of a data set. However, field duplicates may be influenced by sampling precision and are not as controlled as laboratory duplicates.

For quality control purposes, an MS and MSD were taken for each set of 20 samples with a net result of one MS/MSD analysis for the May 2015 sampling event and one MS/MSD analysis for the October 2015 event. The evaluation of MS/MSD criteria was used to qualify the data. The evaluations of MS/MSD analyses are presented in the following tables.

BR-15 – May 2015

Analyte	MS Value (µg/L)	Recovery (%)	MSD Value (µg/L)	MSD Recovery (%)	RPD	Control Limits (%)	RPD Limit
1,1-Dichloroethene	42.39	85	43.35	87	2	70-142	17
cis-1,2-DCE	49.98	96	51.55	99	3	68-138	17
Tetrachloroethene	44.80	90	48.43	97	8	72-145	16
trans-1,2-DCE	47.22	93	48.34	95	2	66-143	16
Trichloroethene	38.25	76	39.76	79	4	73-144	17
Vinyl Chloride	70.54	107	73.07	112	4	56-129	17

BR-15 – October 2015

Analyte	MS Value (µg/L)	Recovery (%)	MSD Value (µg/L)	MSD Recovery (%)	RPD	Control Limits (%)	RPD Limit
1,1-Dichloroethene	51.27	103	52.47	105	2	70-142	17
cis-1,2-DCE	45.69	91	46.23	92	1	68-138	17
Tetrachloroethene	56.69	113	59.62	119	5	72-145	16
trans-1,2-DCE	47.67	95	48.60	96	2	66-143	16
Trichloroethene	52.11	104	53.73	107	3	73-144	17
Vinyl Chloride	50.40	96	50.95	97	1	56-129	17

The RPDs were below the National Functional Data Validation Guideline of 30 for water samples, and demonstrate that MS/MSD analyses are within acceptable limits.

Field duplicate sampling followed the same sampling outline as MS/MSD analysis. One duplicate sample was collected for each set of 20 samples, resulting in one duplicate sample for the May 2015 and one duplicate sample for the October 2015 sampling event. Field duplicate precision is presented in the following tables.

W-5 – May 2015

Sample ID	Analyte	Practical Quantitation Limit	Sample Result (µg/L)	Flag	Duplicate Result (µg/L)	Flag	RPD
W-5	cis-1,2-Dichloroethene	1	40.5		42.5		4.8
	trans-1,2-Dichloroethene	1	6.15		6.11		0.7
	Trichloroethene	1	106		109		2.8
	Vinyl Chloride	1	26.1		27.0		3.4

W-5 – October 2015

Sample ID	Analyte	Practical Quantitation Limit	Sample Result (µg/L)	Flag	Duplicate Result (µg/L)	Flag	RPD
W-5	cis-1,2-Dichloroethene	1	51.5		50.6		1.8
	trans-1,2-Dichloroethene	1	8.51		8.01		6.1
	Trichloroethene	1	116		122		5.0
	Vinyl Chloride	1	34.7		31.5		9.7

Field duplicate precision was evaluated between the two data sets for detected compounds. The RPDs were below the National Functional Data Validation Guideline of 30 for water samples.

4.3 REPRESENTATIVENESS

Representativeness is a qualitative measurement of the degree to which analytical results reflect the true concentrations of analytes that may (or not) be present in a sample. Representativeness of organic analytical results of true site conditions is evaluated using trip blanks, field blanks, method blanks, and rinsates from decontaminated sampling equipment. Target organic compounds in quality control (QC) samples may represent contamination during sampling or transportation of samples to the laboratory. Compliance with holding time and extraction criteria also assures representativeness of results.

One field blank for the May 2015 event and one field blank for the October 2015 event were analyzed to characterize the water source used during these sampling events. Distilled water was used by the field crews for field blanks. No target VOCs were detected above the reporting limit in the field blanks.

No target VOCs were detected above the reporting limit in the method blank in May 2015 or October 2015.

One trip blank was analyzed during the May and October 2015 sampling events as part of the VOC laboratory QC program. No target VOCs were detected above the reporting limit in the trip blanks.

Equipment rinse samples were collected for each set of 20 samples, using distilled water to rinse field equipment, and analyzed for all target constituents. One rinsate blank was collected during the May 2015 event and the October 2015 event. No target VOCs were detected above the reporting limit in either rinsate blank.

Representativeness is considered complete due to the lack of target VOC detections in QC efforts.

4.4 COMPLETENESS

Completeness is a quantitative measurement of the usability of a data set. Completeness is defined as the percentage of data that satisfy validation criteria. Rejected data are not usable. Data qualified as estimated, however, is usable. Completeness goals were 100 percent for this report and are considered to be met.

4.5 COMPARABILITY

Comparability is a qualitative assessment of the confidence with which different data sets may be used to characterize a site. Comparability is a necessary criterion because sampling is often performed at different times and precision, accuracy, and representativeness are unique to each sampling event. Comparability between data generated at different times at a single site is evaluated by reviewing sample collection and handling procedures, sample matrix, and analytical methods used. Standardization of sampling protocols and analytical methods assures comparability as long as precision and accuracy criteria are satisfied for each data set. The overall analytical performance for this report was evaluated and is considered comparable to previous and future data sets.

5.0 CONCLUSIONS AND RECOMMENDATIONS

A comparison of analytical data from the sampling events that occurred from 2001-2015 provides an evaluation of the Site remedial progress. The following overall conclusions and recommendations have been reached in this remedial progress evaluation:

- Following shutdown of the remedial treatment system in 2006 and subsequent decommissioning in 2010, overall contaminant levels in the Site monitoring wells have not demonstrated significant rebound effects, and overall declines remain evident.

- While certain COCs remain above the NYSDEC Class GA Standards, substantial declines of COC concentrations have been observed in all Site monitoring wells. The greatest decrease has been within the two former source areas, as COCs are near or below their respective NYSDEC Class GA Standards in South Source Area monitoring well OB-04 and North Source Area monitoring wells OB-08 and BR-15.

- COCs in four of the eight overburden wells are presently near or below the NYSDEC Class GA standards, including TW-04 along the downgradient eastern property boundary.

- Since the post-injection high concentrations in May 2011, the total overburden groundwater contaminant mass has dropped significantly and in May 2015 was at the lowest total ever. The substantial decrease in contaminant mass indicates that the 3DMe® has enhanced contaminant biodegradation in the overburden monitoring wells.

- Bedrock groundwater has now been affected by the enhanced contaminant biodegradation in the overlying overburden groundwater as indicated by the overall decreasing mass trend since 2012, as well as, the overall decreases in TCE contaminant mass in correlation with overall increases in TCE daughter products.

- In the southern portion of the Site the overburden groundwater contaminant plume is now stable, as source area monitoring well OB-04 and downgradient perimeter monitoring well TW-04 have had COC's near or below their respective NYSDEC Class GA Standards for several years, while COCs in downgradient plume monitoring well OB-06 have been stable to declining for the past two years. Based on the demonstrated stable plume, Amec Foster Wheeler recommends that overburden monitoring wells OB-04, OB-06, and TW-04 be abandoned, as we believe that the 11 monitoring wells remaining afterward would be sufficient to monitor the remaining portions of the groundwater contaminant plume. Pending approval from the NYSDEC, we will arrange to have the monitoring wells abandoned in accordance with NYSDEC groundwater monitoring well decommissioning procedures.

- Pending NYDEC's response to our request to abandon OB-04, OB-06, and TW-04, groundwater monitoring events will continue to be conducted semi-annually on the

remaining monitoring wells. Groundwater samples will be analyzed for the six primary COCs remaining at the Site: PCE; TCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCE; and vinyl chloride. These VOCs will be analyzed using EPA Method 8260C. Additionally, as detailed in the revised *Operations, Maintenance, and Monitoring Manual* (MACTEC, 2011), the groundwater samples will be analyzed for the full suite of 8260C constituents every five years and prior to ending monitoring at any specified well.

- Results for future post-closure monitoring events will be provided to NYSDEC in subsequent annual reports. Unless otherwise agreed to by NYSDEC, contaminant conditions will continue to be monitored until groundwater concentrations of the COCs are at or below the NYSDEC Class GA Standards.

- During February 2015, Amec Foster Wheeler collected SSVIA samples from the residence at 80 Ames Street to determine if continued operation of a SSD system as a precautionary measure was still warranted, since it appears TCE is no longer present in the overburden site groundwater immediately upgradient of the 80 Ames Street residence. Based on the analytical results the NYSDOH matrix table recommendation was for monitoring at the residence (based on TCE), however, as recommended by the NYSDEC (NYSDEC, 2015), ABB will continue operation of the SSD system in lieu of monitoring.

- As requested by NYSDEC (NYSDEC, 2015), the Site Periodic Review Report is provided in Appendix B of this report.

6.0 REFERENCES

AMEC, 2014. *Addendum to Work Plan for Sub-Slab Vapor and Indoor Air Investigation, Additional Sampling Event for Residence Located at 80 Ames Street, Rochester, New York*. Prepared for the New York State Department of Environmental Conservation (October 27).

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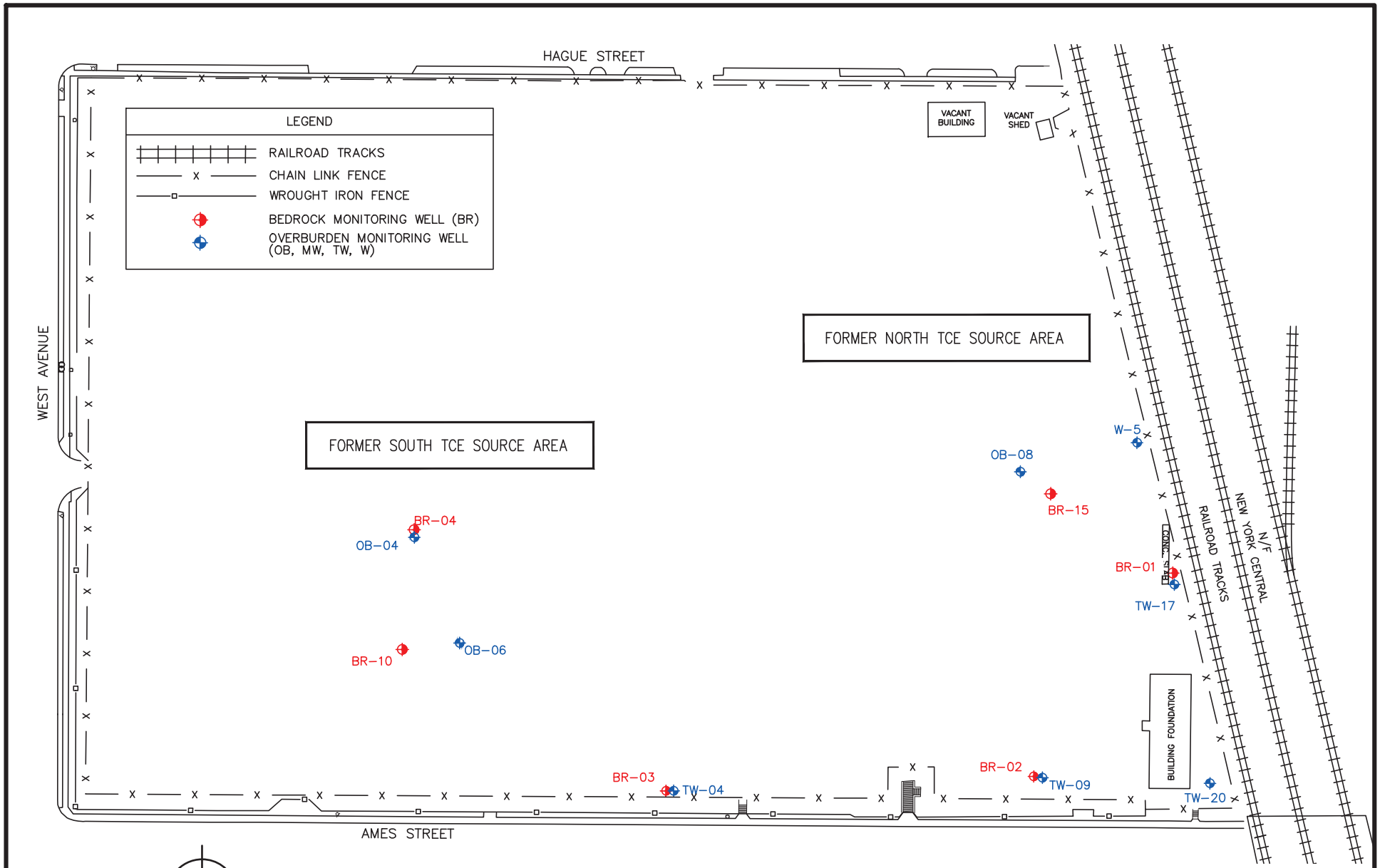
APPENDIX A

FIGURES

Plotted By: Wiers, William Sheet Set: N/A Layout: Well locations February 19, 2016 10:26:04am
P:\CADD\Projects\3031\3031152028 ABB Rochester NY\2015 Annual Report\Well Locations.dwg



CLIENT: ABB		DESIGN BY: N/A	PROJECT: ANNUAL REPORT 2015 FORMER TAYLOR INSRUMENTS SITE ROCHESTER, NEW YORK	PROJECT NO.: 3031152028.02	
		DRAWN BY: W. WIERS		REVISION NO. N/A	
		CHECKED BY: N. GARLAND	TITLE: WELL LOCATIONS	DATE: 12/01/2015	
		PM: R. RYAN		FIGURE NO. 1	
		SCALE: AS NOTED			

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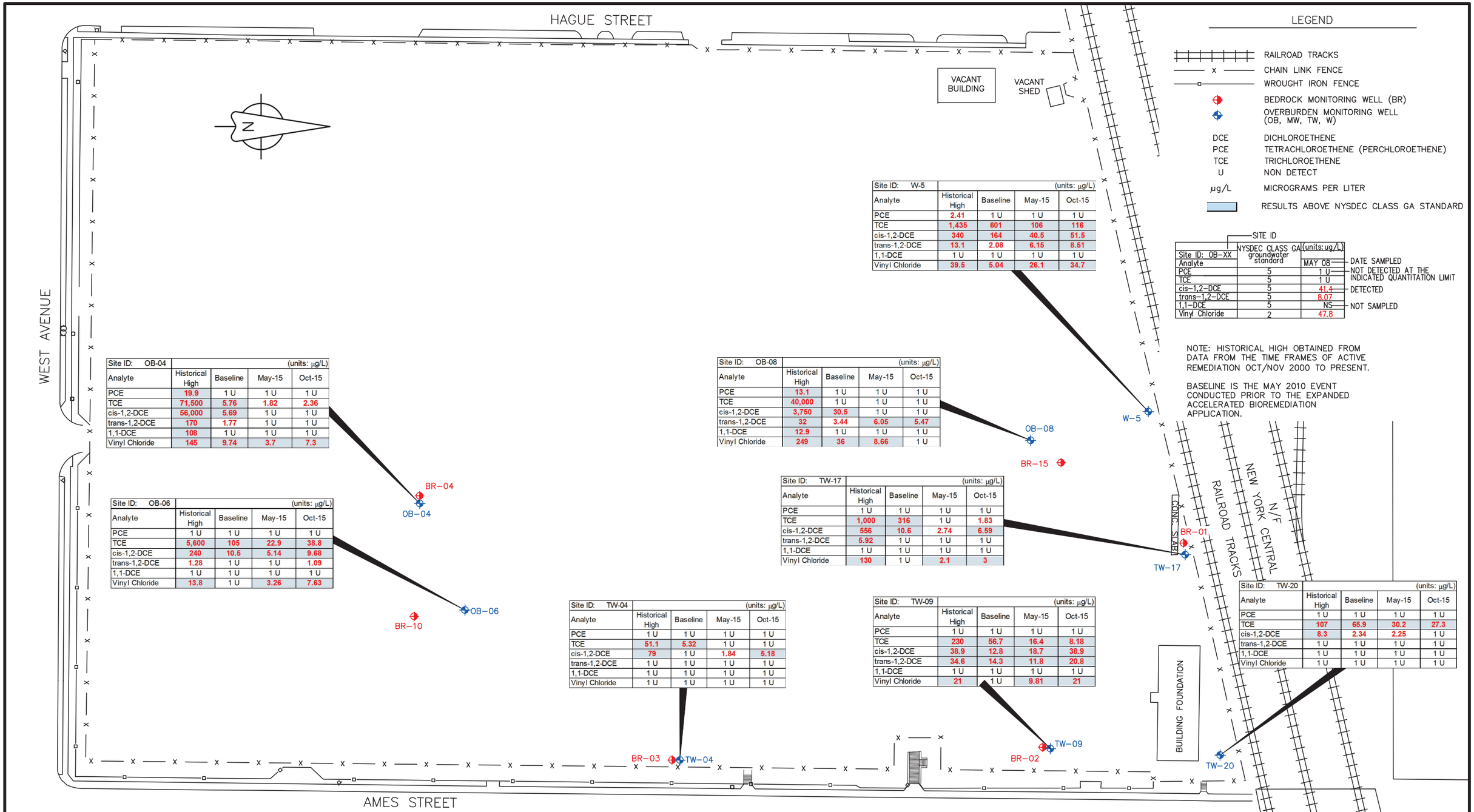

LEGEND

- RAILROAD TRACKS
- CHAIN LINK FENCE
- WROUGHT IRON FENCE
- BEDROCK MONITORING WELL (BR)
- OVERBURDEN MONITORING WELL (OB, MW, TW, W)
- DCE — DICHLOROETHENE
- PCE — TETRACHLOROETHENE (PERCHLOROETHENE)
- TCE — TRICHLOROETHENE
- U — NON DETECT
- µg/L — MICROGRAMS PER LITER
- RESULTS ABOVE NYSDEC CLASS GA STANDARD

Site ID: OB-XX	NYSDEC CLASS GA groundwater standard	(units: ug/L) MAY 08
Analyte		
PCE	5	1 U
TCE	5	1 U
cis-1,2-DCE	5	41.4
trans-1,2-DCE	5	8.07
1,1-DCE	5	NS
Vinyl Chloride	2	47.8

SITE ID — DATE SAMPLED — NOT DETECTED AT THE INDICATED QUANTITATION LIMIT — DETECTED — NOT SAMPLED

NOTE: HISTORICAL HIGH OBTAINED FROM DATA FROM THE TIME FRAMES OF ACTIVE REMEDIATION OCT/NOV 2000 TO PRESENT.

BASELINE IS THE MAY 2010 EVENT CONDUCTED PRIOR TO THE EXPANDED ACCELERATED BIOREMEDIATION APPLICATION.

Site ID: OB-04	(units: µg/L)			
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	19.9	1 U	1 U	1 U
TCE	71,500	5.76	1.82	2.36
cis-1,2-DCE	56,000	5.69	1 U	1 U
trans-1,2-DCE	170	1.77	1 U	1 U
1,1-DCE	108	1 U	1 U	1 U
Vinyl Chloride	145	9.74	3.7	7.3

Site ID: OB-06	(units: µg/L)			
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	1 U	1 U	1 U	1 U
TCE	5,600	105	22.9	38.8
cis-1,2-DCE	240	10.5	5.14	9.68
trans-1,2-DCE	1.28	1 U	1 U	1.09
1,1-DCE	1 U	1 U	1 U	1 U
Vinyl Chloride	13.8	1 U	3.26	7.63

Site ID: TW-04	(units: µg/L)			
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	1 U	1 U	1 U	1 U
TCE	51.1	5.32	1 U	1 U
cis-1,2-DCE	79	1 U	1.84	5.18
trans-1,2-DCE	1 U	1 U	1 U	1 U
1,1-DCE	1 U	1 U	1 U	1 U
Vinyl Chloride	1 U	1 U	1 U	1 U

Site ID: TW-09	(units: µg/L)			
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	1 U	1 U	1 U	1 U
TCE	230	56.7	16.4	8.18
cis-1,2-DCE	38.9	12.8	18.7	38.9
trans-1,2-DCE	34.6	14.3	11.8	20.8
1,1-DCE	1 U	1 U	1 U	1 U
Vinyl Chloride	21	1 U	9.81	21

Site ID: TW-17	(units: µg/L)			
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	1 U	1 U	1 U	1 U
TCE	1,000	316	1 U	1.83
cis-1,2-DCE	556	10.6	2.74	6.59
trans-1,2-DCE	5.92	1 U	1 U	1 U
1,1-DCE	1 U	1 U	1 U	1 U
Vinyl Chloride	130	1 U	2.1	3

Site ID: OB-08	(units: µg/L)			
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	13.1	1 U	1 U	1 U
TCE	40,000	1 U	1 U	1 U
cis-1,2-DCE	3,750	30.5	1 U	1 U
trans-1,2-DCE	32	3.44	6.05	5.47
1,1-DCE	12.9	1 U	1 U	1 U
Vinyl Chloride	249	36	8.66	1 U

Site ID: TW-20	(units: µg/L)			
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	1 U	1 U	1 U	1 U
TCE	107	65.9	30.2	27.3
cis-1,2-DCE	8.3	2.34	2.25	1 U
trans-1,2-DCE	1 U	1 U	1 U	1 U
1,1-DCE	1 U	1 U	1 U	1 U
Vinyl Chloride	1 U	1 U	1 U	1 U

0' 40' 80' 120'
1" = 80'

CLIENT: ABB		DESIGN BY: N/A	PROJECT: ANNUAL REPORT 2015 FORMER TAYLOR INSRUMENTS SITE ROCHESTER, NEW YORK	PROJECT NO.: 3031152028.02	
Amec Foster Wheeler Environment & Infrastructure 2030 Falling Waters Road, Suite 300 Knoxville, TN 37922 Phone (865) 671-6774 Fax (865) 671-6254	amec foster wheeler	DRAWN BY: W. WIERS		REVISION NO. N/A	
		CHECKED BY: N. GARLAND	TITLE: VOCs IN OVERBURDEN MONITORING WELLS	DATE: 12/01/2015	
		PM: R. RYAN		FIGURE NO. 2	
		SCALE: AS NOTED			

Plotted By: Wiers, William Sheet Set: N/A Layout: Vocs in overburden monitoring wells February 19, 2016 10:26:16am P:\CADD\Projects\3031\3031152028 ABB Rochester NY\2015 Annual Report\VOCs OB MW 2015.dwg

HAGUE STREET

WEST AVENUE

AMES STREET

VACANT BUILDING

VACANT SHED

BUILDING FOUNDATION

CONC. SLAB

RAILROAD TRACKS

NEW YORK CENTRAL N/F

W-5

BR-04 OB-04

BR-10 OB-06

BR-03 TW-04

BR-02 TW-09

BR-15 OB-08

BR-01 TW-17

TW-20

LEGEND

- RAILROAD TRACKS
- CHAIN LINK FENCE
- WROUGHT IRON FENCE
- BEDROCK MONITORING WELL (BR)
- OVERBURDEN MONITORING WELL (OB, MW, TW, W)
- DCE — DICHLOROETHENE
- PCE — TETRACHLOROETHENE (PERCHLOROETHENE)
- TCE — TRICHLOROETHENE
- U — NON DETECT
- µg/L — MICROGRAMS PER LITER
- RESULTS ABOVE NYSDEC CLASS GA STANDARD

Site ID: OB-XX	NYSDEC CLASS GA groundwater standard	(units: ug/L)
Analyte		MAY 08
PCE	5	1 U
TCE	5	1 U
cis-1,2-DCE	5	41.4
trans-1,2-DCE	5	8.07
1,1-DCE	5	NS
Vinyl Chloride	2	47.8

SITE ID — DATE SAMPLED — NOT DETECTED AT THE INDICATED QUANTITATION LIMIT — DETECTED — NOT SAMPLED

NOTE: HISTORICAL HIGH OBTAINED FROM DATA FROM THE TIME FRAMES OF ACTIVE REMEDIATION OCT/NOV 2000 TO PRESENT.

BASELINE IS THE MAY 2010 EVENT CONDUCTED PRIOR TO THE EXPANDED ACCELERATED BIOREMEDIATION APPLICATION.

Site ID: BR-04				(units: µg/L)
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	1.8	1 U	5 U	1 U
TCE	10,000	325	437	331
cis-1,2-DCE	6,410	321	977	661
trans-1,2-DCE	147	11.7	61.6	64.9
1,1-DCE	21.3	1.37	7.27	7.78
Vinyl Chloride	77	1 U	52.7	46.2

Site ID: BR-15				(units: µg/L)
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	1 U	1 U	1 U	1 U
TCE	6,590	167	1 U	1 U
cis-1,2-DCE	1,390	123	1.94	1 U
trans-1,2-DCE	43.6	2.12	1 U	1 U
1,1-DCE	12.8	1 U	1 U	1 U
Vinyl Chloride	199	3.11	16.9	2.2

Site ID: BR-01				(units: µg/L)
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	1 U	1 U	5 U	1 U
TCE	551	9.23	40.4	31.8
cis-1,2-DCE	1,570	12.8	1,240	906
trans-1,2-DCE	61.4	2.02	37.1	39.8
1,1-DCE	7.70	1 U	5 U	4.03
Vinyl Chloride	406	1 U	244	244

Site ID: BR-10				(units: µg/L)
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	2.94	1.72	1 U	1 U
TCE	8,700	277	142	201
cis-1,2-DCE	1,700	77.3	260	343
trans-1,2-DCE	82.8	14	38.5	56.5
1,1-DCE	4.7	1 U	1 U	1.61
Vinyl Chloride	16.1	1 U	1 U	3.04

Site ID: BR-03				(units: µg/L)
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	1 U	1 U	1 U	1 U
TCE	1,150	270	353	360
cis-1,2-DCE	329	3.15	40.6	76.4
trans-1,2-DCE	6.71	1 U	1.12	1.77
1,1-DCE	3.1	1 U	1.4	1.86
Vinyl Chloride	1 U	1 U	1 U	1 U

Site ID: BR-02				(units: µg/L)
Analyte	Historical High	Baseline	May-15	Oct-15
PCE	1.32	1 U	1 U	1 U
TCE	25,200	821	506	16.6
cis-1,2-DCE	19,100	186	167	21.7
trans-1,2-DCE	238	21.9	7.23	1.54
1,1-DCE	156	1.76	1 U	1 U
Vinyl Chloride	103	2.25	3.41	1 U

0' 40' 80' 120'

1" = 80'

CLIENT:	ABB
DESIGN BY:	N/A
DRAWN BY:	W. WIERS
CHECKED BY:	N. GARLAND
PM:	R. RYAN
SCALE:	AS NOTED
PROJECT:	ANNUAL REPORT 2015 FORMER TAYLOR INSRUMENTS SITE ROCHESTER, NEW YORK
TITLE:	VOCs IN BEDROCK MONITORING WELLS
PROJECT NO.:	3031152028.02
REVISION NO.	N/A
DATE:	12/01/2015
FIGURE NO.	3

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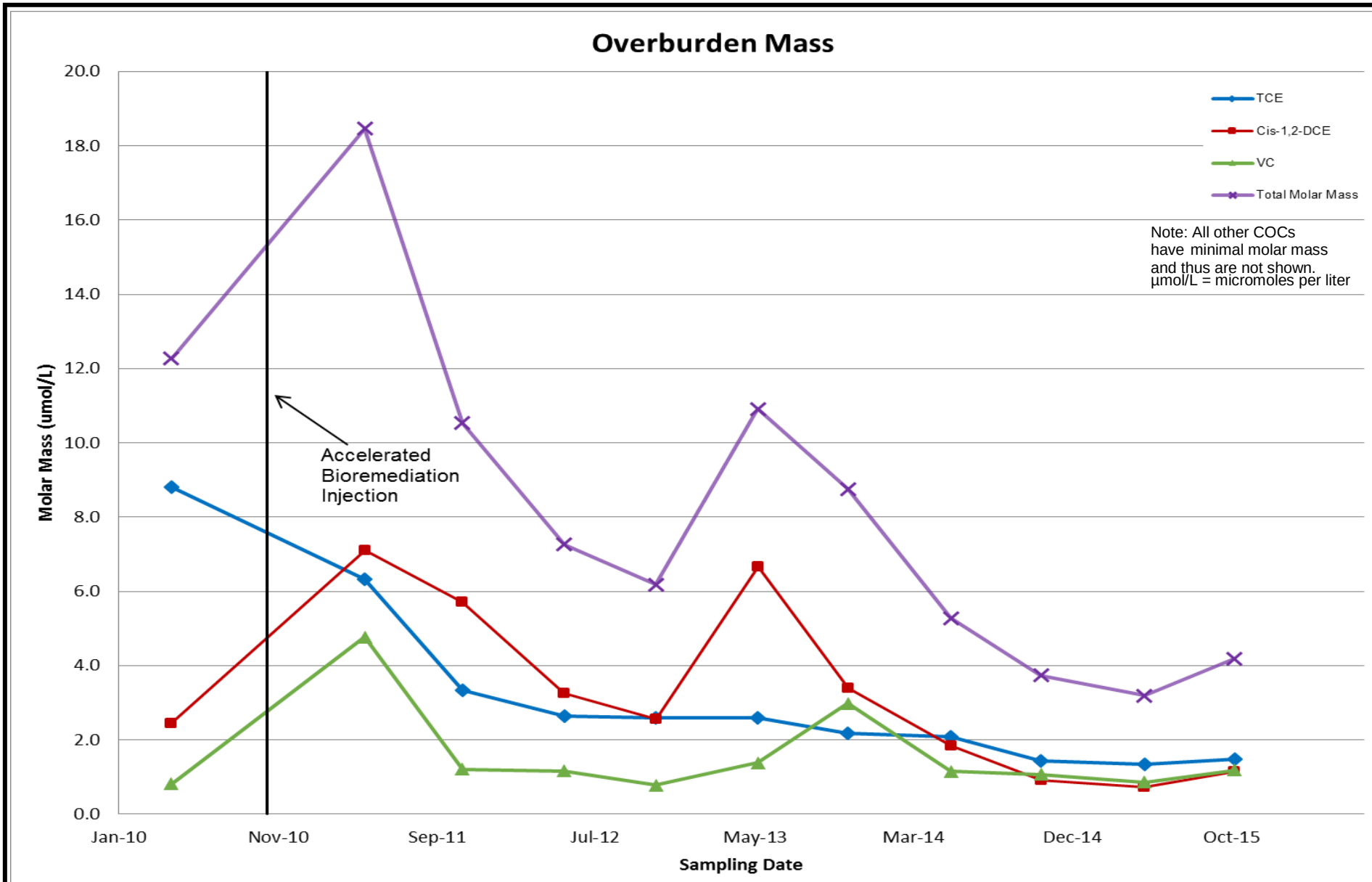

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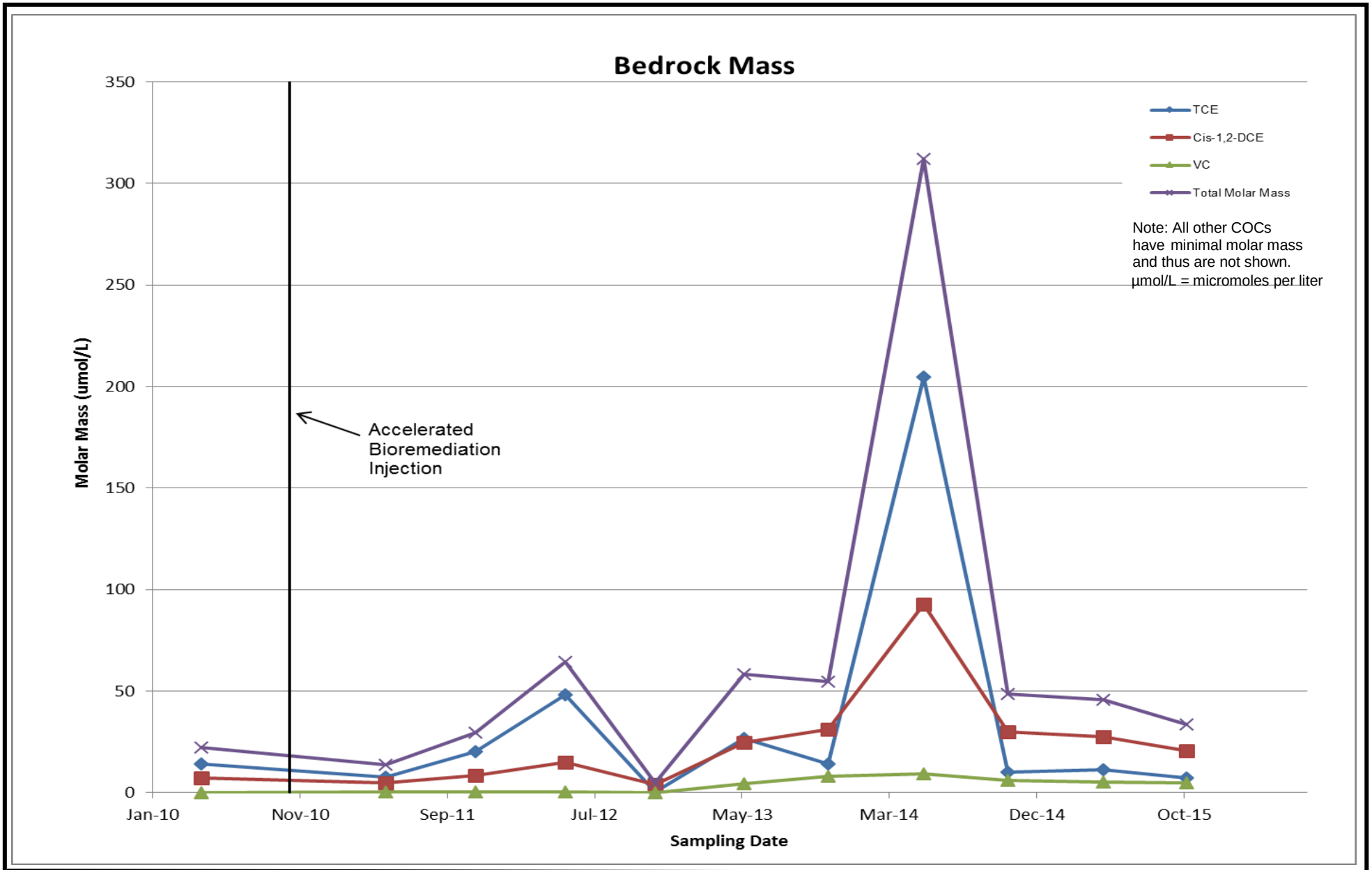
Prepared by/Date: NG 12/04/15

Checked by/Date: KJD 12/04/15

FIGURE 4: OVERBURDEN CONTAMINANT MASS GRAPH
FORMER TAYLOR INSTRUMENTS SITE
ROCHESTER, NEW YORK



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Prepared by/Date: NG 12/04/15

Checked by/Date: KJD 12/04/15

FIGURE 5: BEDROCK CONTAMINANT MASS GRAPH
FORMER TAYLOR INSTRUMENTS SITE
ROCHESTER, NEW YORK

HAGUE STREET

WEST AVENUE

AMES STREET

VACANT BUILDING

VACANT SHED

BUILDING FOUNDATION

CONRAIL

NEW YORK CENTRAL RAILROAD TRACKS N/F

LEGEND

- RAILROAD TRACKS
- CHAIN LINK FENCE
- WROUGHT IRON FENCE
- BEDROCK MONITORING WELL (BR)
- OVERBURDEN MONITORING WELL (OB, MW, TW, W)
- DCE — DICHLOROETHENE
- PCE — TETRACHLOROETHENE (PERCHLOROETHENE)
- TCE — TRICHLOROETHENE
- U — NON DETECT
- µg/L — MICROGRAMS PER LITER
- RESULTS ABOVE NYSDEC CLASS GA STANDARD

Site ID: OB-XX	NYSDEC CLASS GA groundwater standard	(units: ug/L) MAY 08
Analyte		
PCE	5	1 U
TCE	5	1 U
cis-1,2-DCE	5	41.4
trans-1,2-DCE	5	8.07
1,1-DCE	5	NS
Vinyl Chloride	2	47.8

SITE ID — DATE SAMPLED — NOT DETECTED AT THE INDICATED QUANTITATION LIMIT — DETECTED — NOT SAMPLED

Site ID: OB-04											Units (µg/L)
Analyte	Historical High (Year Detected)	May-11	Nov-11	May-12	Nov-12	May-13	Nov-13	May-14	Oct-14	May-15	Oct-15
PCE	23 (1999)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TCE	550,000 (1997)	47.1	5.68	4.35	3.94	3.48	2.95	1.46	1 U	1.82	2.36
cis-1,2-DCE	56,000 (2001)	305	51.1	2.05	2.31	1.08	1 U	1 U	1 U	1 U	1 U
trans-1,2-DCE	170 (2001)	1.79	2.51	1.26	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DCE	108 (2001)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	145 (2008)	43.3	33.2	8.69	4.25	1 U	2.44	1.21	4.25	3.7	7.3

Site ID: OB-06											Units (µg/L)
Analyte	Historical High (Year Detected)	May-11	Nov-11	May-12	Nov-12	May-13	Nov-13	May-14	Oct-14	May-15	Oct-15
PCE	Never Detected	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TCE	5600 (2001)	60	18.9	25.4	34.3	40.1	43.7	35.5	38.9	22.9	38.8
cis-1,2-DCE	240 (2001)	77.4	46.5	7.56	6.63	7.5	7.83	6.8	7.64	5.14	9.68
trans-1,2-DCE	9J (2001)	1 U	1.28	1 U	1 U	1 U	1.03	1 U	1.05	1 U	1.09
1,1-DCE	Never Detected	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	13.8 (2011)	1 U	13.8	2.72	3.86	2.56	8.02	2.51	5.2	3.26	7.63

Site ID: TW-04											Units (µg/L)
Analyte	Historical High (Year Detected)	May-11	Nov-11	May-12	Nov-12	May-13	Nov-13	May-14	Oct-14	May-15	Oct-15
PCE	Never Detected	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TCE	92 (1999)	6.17	8.9	1.66	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-DCE	79 (2000)	1 U	2.44	1.56	2.85	1.13	6.87	2.08	8.24	1.84	5.18
trans-1,2-DCE	Never Detected	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DCE	Never Detected	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	Never Detected	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

OB-08 BR-15 W-5 BR-01 TW-17 BR-04 OB-04 OB-06 BR-10 BR-03 TW-04 TW-09 BR-02 TW-20

0' 40' 80' 120'
1" = 80'

CLIENT: ABB	DESIGN BY: N/A	PROJECT: ANNUAL REPORT 2015 FORMER TAYLOR INSRUMENTS SITE ROCHESTER, NEW YORK	PROJECT NO.: 3031152028.02
	DRAWN BY: W. WIERS		REVISION NO. N/A
	CHECKED BY: N. GARLAND	TITLE: POST INJECTION VOC's AND HISTORICAL HIGHS	DATE: 12/01/2015
	PM: R. RYAN		FIGURE NO. 6
	SCALE: AS NOTED	OVERBURDEN SOUTH SOURCE AREA MONITORING WELLS	

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Plotted By: Wiers, William Sheet Set: N/A Layout: Overburden potentiometric surface map may 2015 sampling event
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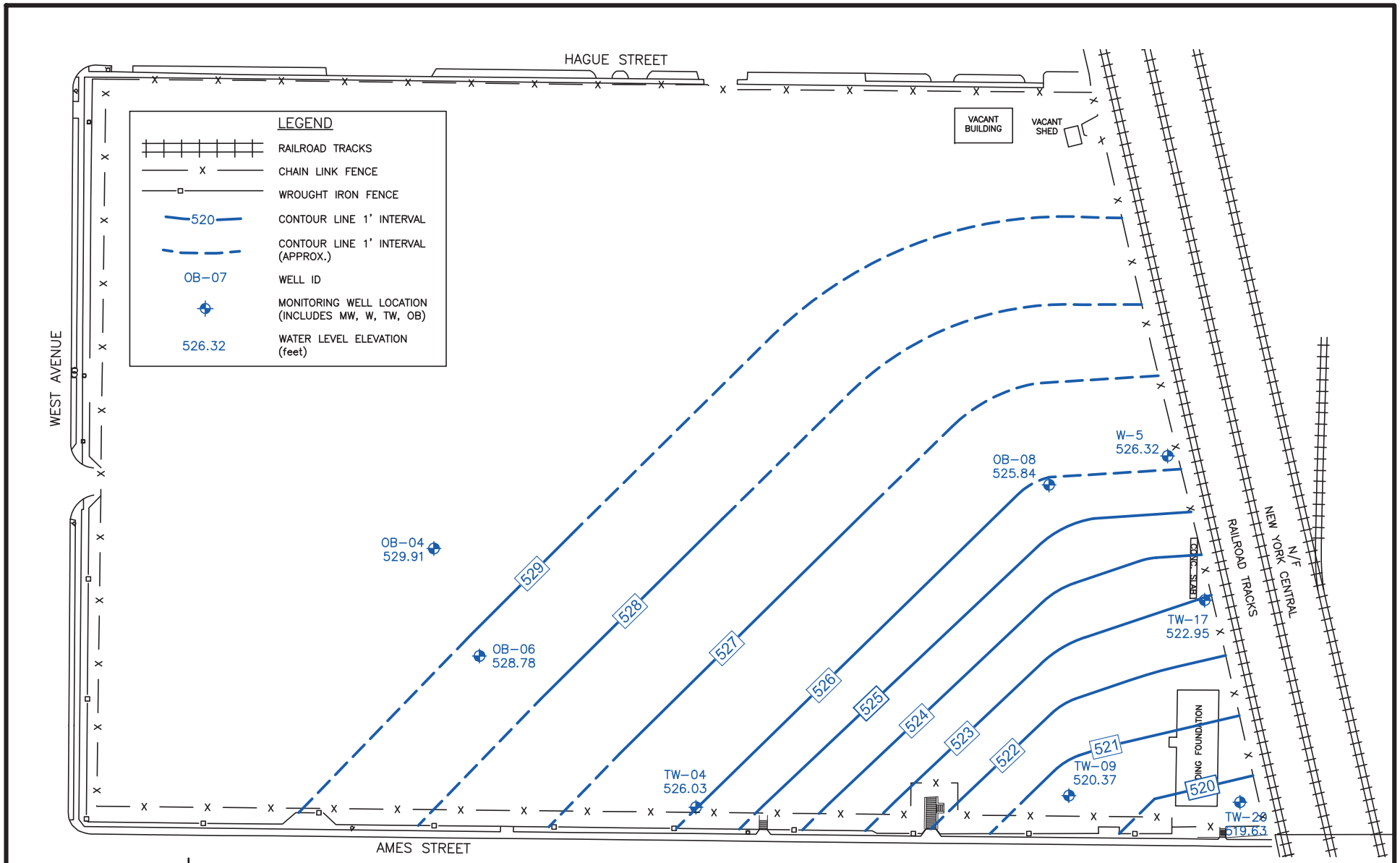

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		DRAWN BY: W. WIERS		REVISION NO. N/A
Amec Foster Wheeler Environment & Infrastructure 2030 Falling Waters Road, Suite 300 Knoxville, TN 37922 Phone (865) 671-6774 Fax (865) 671-6254	amec foster wheeler	CHECKED BY: N. GARLAND	TITLE: OVERBURDEN POTENTIOMETRIC SURFACE MAP MAY 2015 SAMPLING EVENT	DATE: 12/01/2015
		PM: R. RYAN		FIGURE NO. 7
		SCALE: AS NOTED		

Plotted By: Wiers, William Sheet Set: N/A Layout: Bedrock groundwater elevations may 2015 sampling event February 19, 2016
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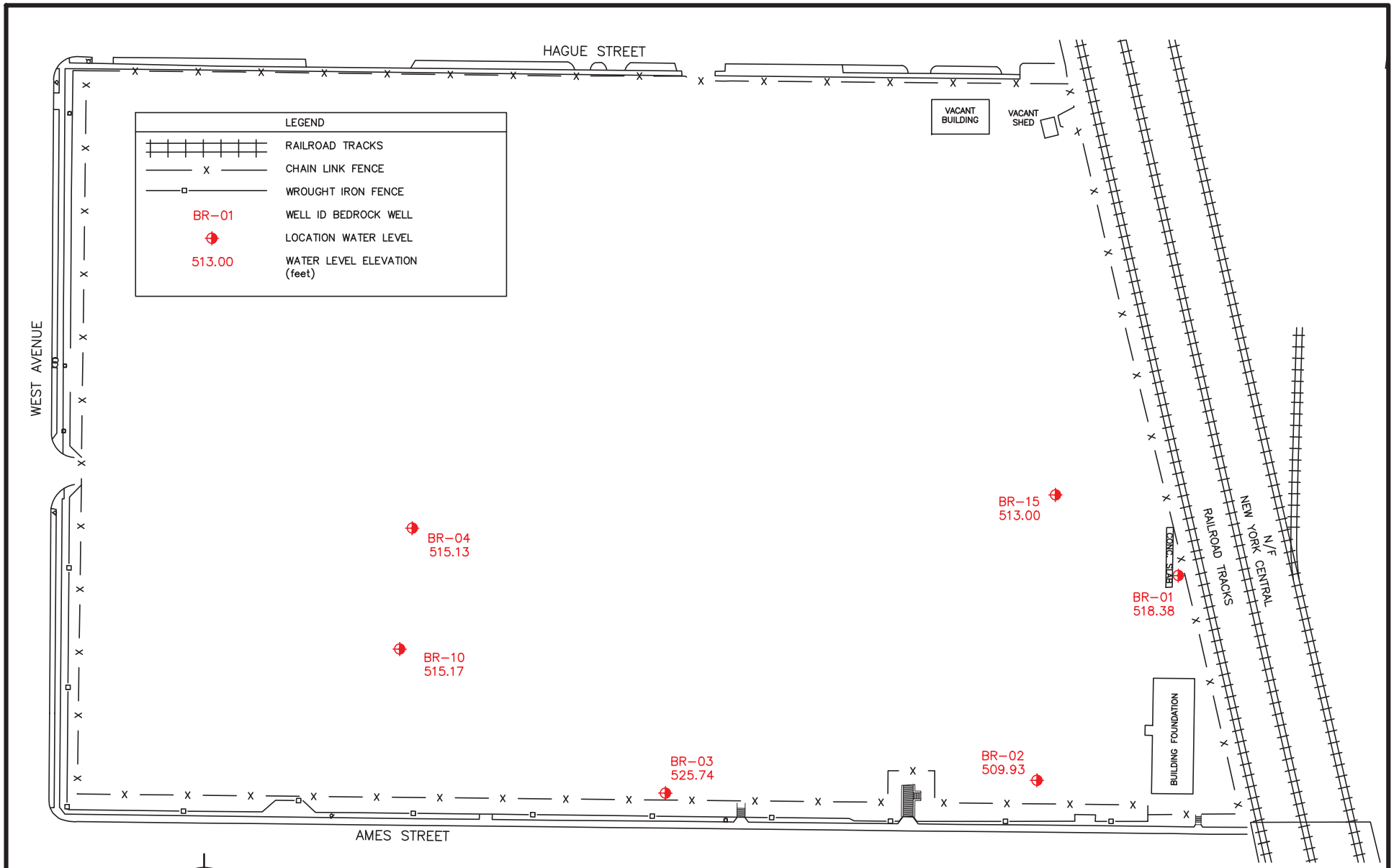

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		DRAWN BY: W. WIERS		REVISION NO. N/A
Amec Foster Wheeler Environment & Infrastructure 2030 Falling Waters Road, Suite 300 Knoxville, TN 37922 Phone (865) 671-6774 Fax (865) 671-6254	amec foster wheeler	CHECKED BY: N. GARLAND	TITLE: BEDROCK GROUNDWATER ELEVATIONS MAY 2015 SAMPLING EVENT	DATE: 12/01/2015
		PM: R. RYAN		FIGURE NO. 8
		SCALE: AS NOTED		

Plotted By: Wiers, William Sheet Set: N/A Layout: Overburden potentiometric surface map october 2015 sampling even February 19, 2016 10:27:30am
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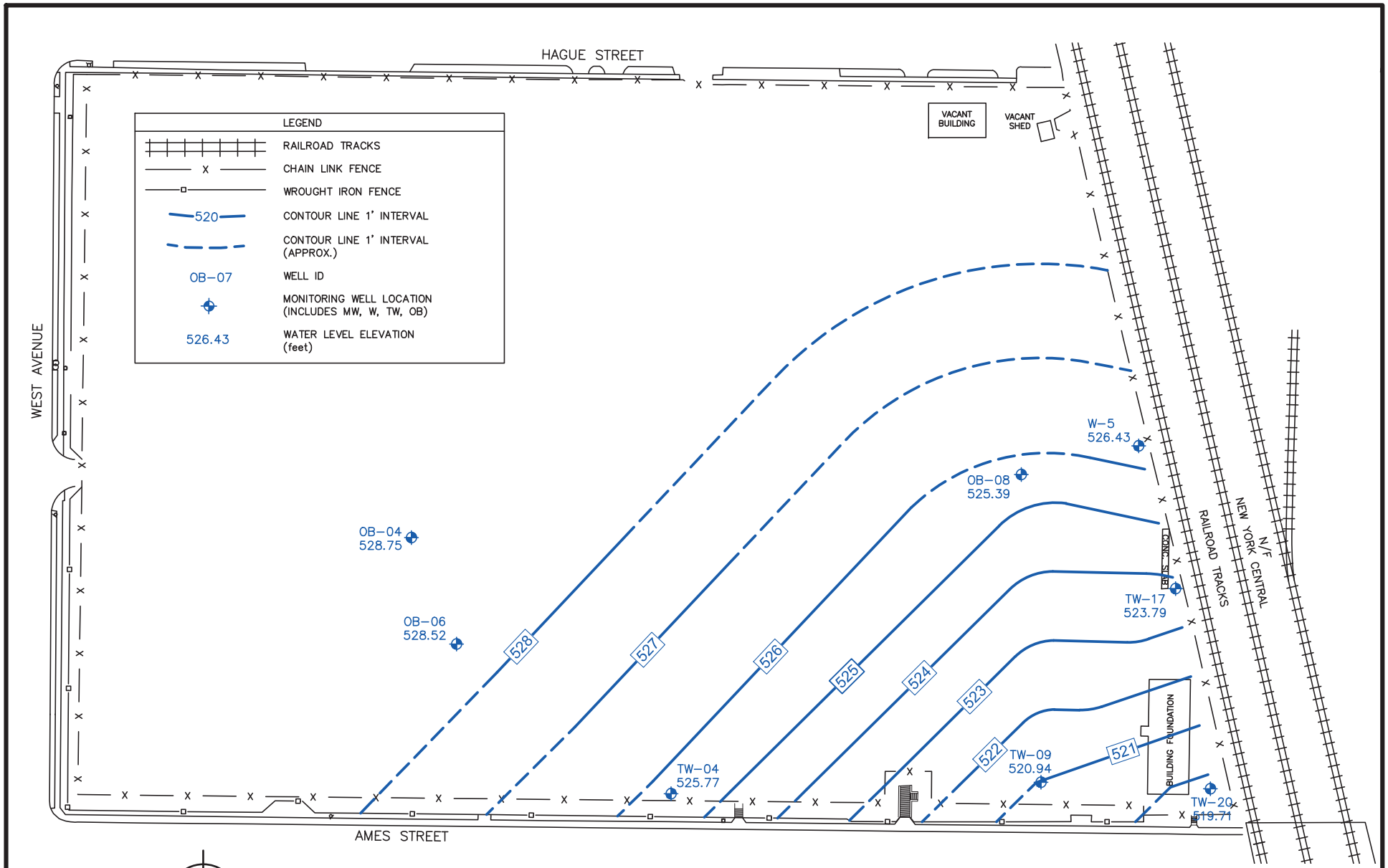

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		DRAWN BY: W. WIERS		REVISION NO. N/A
Amec Foster Wheeler Environment & Infrastructure 2030 Falling Waters Road, Suite 300 Knoxville, TN 37922 Phone (865) 671-6774 Fax (865) 671-6254	amec foster wheeler	CHECKED BY: N. GARLAND	TITLE: OVERBURDEN POTENTIOMETRIC SURFACE MAP OCTOBER 2015 SAMPLING EVENT	DATE: 12/01/2015
		PM: R. RYAN		FIGURE NO. 9
		SCALE: AS NOTED		

Plotted By: Wiers, William Sheet Set: N/A Layout: Bedrock groundwater elevations october 2015 sampling event February 19, 2016
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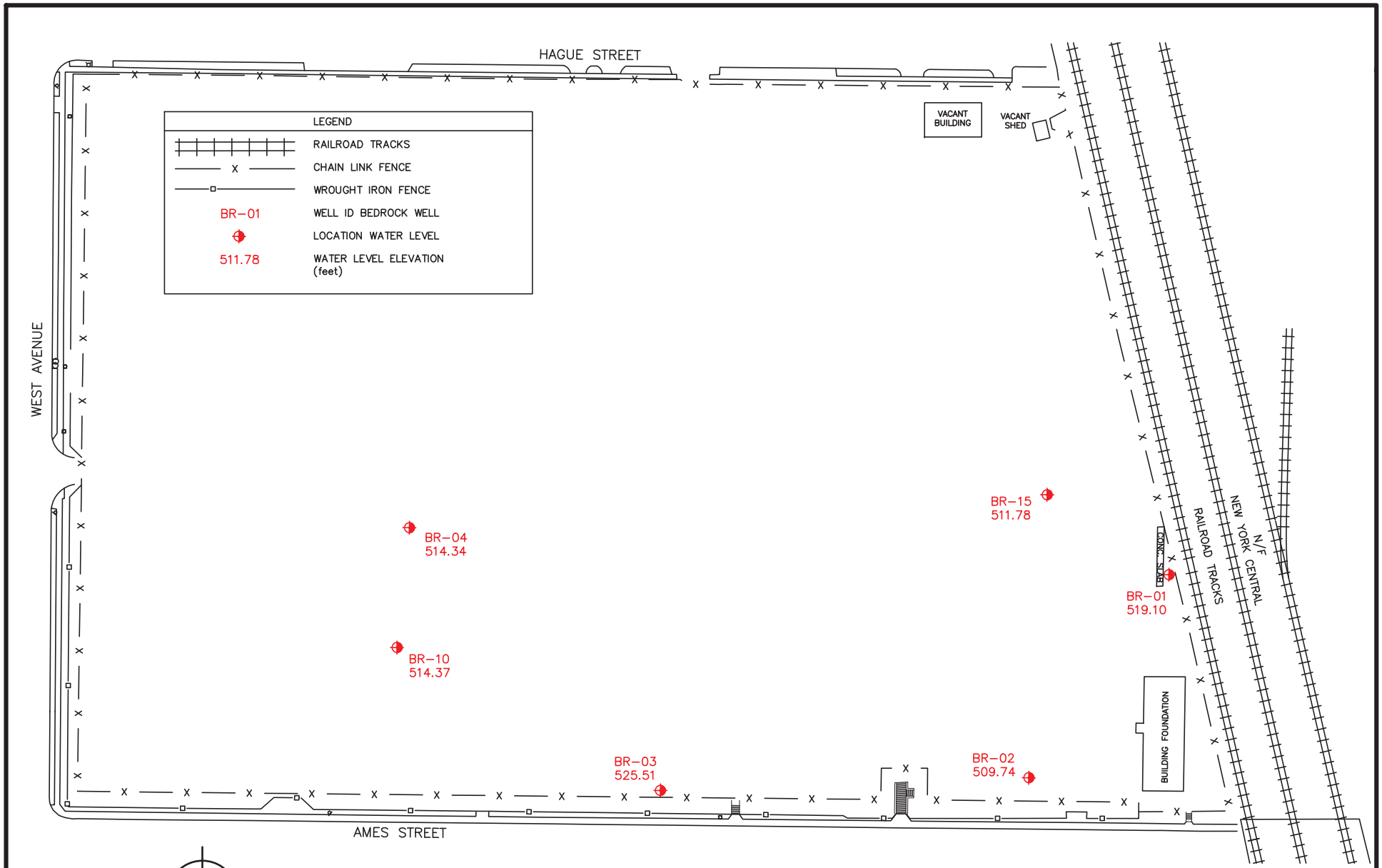


CLIENT: ABB		DESIGN BY: N/A	PROJECT: ANNUAL REPORT 2015 FORMER TAYLOR INSRUMENTS SITE ROCHESTER, NEW YORK	PROJECT NO.: 3031152028.02
		DRAWN BY: W. WIERS		REVISION NO. N/A
Amec Foster Wheeler Environment & Infrastructure 2030 Falling Waters Road, Suite 300 Knoxville, TN 37922 Phone (865) 671-6774 Fax (865) 671-6254	amec foster wheeler	CHECKED BY: N. GARLAND	TITLE: BEDROCK GROUNDWATER ELEVATIONS OCTOBER 2015 SAMPLING EVENT	DATE: 12/01/2015
		PM: R. RYAN		FIGURE NO. 10
		SCALE: AS NOTED		

APPENDIX B

PERIODIC REVIEW REPORT

APPENDIX B

PERIODIC REVIEW REPORT

Introduction

This Periodic Review Report (PRR) was prepared to fulfill the requirements of the New York State Department of Environmental Conservation's (NYSDEC) request for a Site Management PRR as requested in a letter dated February 12, 2016 (NYSDEC, 2016).

Executive Summary

The Site was the location of the former Taylor Instruments Facility that was operated from 1904 to 1993 under a variety of owners. In 1993 Combustion Engineering (CE) closed the facility. The Site is currently vacant. In 1997 a Voluntary Clean-up Agreement (VCA) was executed between CE and NYSDEC (VCA Index #B8-0508-97-02, NYSDEC, 1997).

Following extensive soil excavation, filling and capping, and other remedial activities, a groundwater remedy for chlorinated volatile organic compounds (VOCs) was implemented from January 2001 to May 2006. This included an on-site remedial treatment system which consisted of a dual-phase vacuum extraction (DPVE) and bedrock groundwater extraction and treatment system (System).

Upon concluding that the System had reached asymptotic contaminant removal rates, in July 2006 AMEC Environment & Infrastructure, Inc. (AMEC) (formerly MACTEC Engineering and Consulting, Inc. [MACTEC]) initiated a pilot-scale application of Hydrogen Release Compound (HRC) Advanced® near monitoring wells OB-08 in the North Trichloroethene (TCE) Source Area and OB-04 in the South TCE Source Area of the Site to evaluate the effectiveness of HRC Advanced® in accelerating the biodegradation of the Site contaminants of concern (COCs) in lieu of further operation of the System. The HRC Advanced® was effective in reducing TCE contamination in the overburden groundwater within the North and South TCE Source Areas.

Following NYSDEC's approval of MACTEC's *Revised Work Plan for Accelerated Bioremediation and Permanent Decommissioning of the Remediation Treatment System* (MACTEC, 2010a) in 2010, the System was decommissioned, most monitoring wells were abandoned, an expanded

application of 3-D Microemulsion® (3DMe®, formerly HRC Advanced®) was implemented, and post-closure monitoring of natural attenuation was implemented starting in 2011. Unless otherwise agreed to by NYSDEC, contaminant conditions will continue to be monitored in remaining wells (BR-01, BR-02, BR-03, BR-04, BR-10, BR-15, OB-04, OB-06, OB-08, TW-04, TW-09, TW-17, TW-20, and W-5) until groundwater concentrations of the COCs are at or below NYSDEC Class GA Standards. Figure 1 (Appendix A of the Annual Report [Amec Foster Wheeler, 2015]) depicts the remaining 14 monitoring wells and site boundaries. In October 2010, AMEC completed the expanded accelerated bioremediation application using 3DMe® in the vicinities of the remaining source area overburden monitoring wells and along the eastern portion of the Site.

Also in cooperation with the NYSDEC and the New York State Department of Health in 2010, following a sub-slab vapor investigation, ABB installed a sub-slab depressurization (SSD) system as a precautionary measure to mitigate sub-slab vapor at the 80 Ames residence across from the Site. A February 2015 sub-slab vapor and indoor air (SSVIA) sampling event was performed at the residence because TCE was no longer detected in the immediately upgradient overburden groundwater. Based on the analytical results the New York State Department of Health (NYSDOH) matrix table recommendation was for monitoring at the residence (based on TCE), however, as recommended by the NYSDEC (NYSDEC, 2015), ABB will continue operation of the SSD system in lieu of monitoring.

Complete details of the system decommissioning, 3DMe® injection, and SSD system installation were provided in the *Construction Completion Report* (CCR) (MACTEC, 2010b) which was approved by NYSDEC on February 16, 2011 (NYSDEC, 2011a).

Overburden and bedrock monitoring wells located on the Site have been sampled regularly from 2001 to 2015. Analytical data from the most recent October 2015 groundwater sampling event indicates that while certain COCs remain above the NYSDEC Class GA standards, overall substantial declines of COC concentrations have been observed in all Site monitoring wells. In the southern portion of the site the overburden groundwater plume is now stable based on the groundwater monitoring results from the past few years at south source area monitoring well OB-04, downgradient perimeter monitoring well TW-04, and plume monitoring well OB-06.

During the past reporting period, no areas of noncompliance were noted. Additionally, no changes to the *Soil Management Plan* (MACTEC, 2005), the revised *Operations, Maintenance, and*

Monitoring (OM&M) *Manual* (MACTEC, 2011), or frequency of PRR submittals are recommended. The requirements for discontinuing the Site management have not yet been met.

Site Overview

The Site is located at 95 Ames Street in Rochester, New York. The approximately 14-acre Site is vacant, containing a fabricated building that previously housed the System as well as a second small storage shed. The Site is mostly paved and is surrounded by a chain link fence. North of the Site are a railroad line and a commercial/industrial property; to the east across Ames Street are a food processing facility, residences, and a community center; to the south across West Avenue are residences; and to the west across Hague Street is Rochester Gas and Electric. Figure 1 (Appendix A of the Annual Report [Amec Foster Wheeler, 2015]) depicts the current Site layout.

On June 8, 2015 a utility easement agreement was executed with Rochester Gas & Electric for a 75-foot easement on the north end of the Site. The easement as depicted in the easement agreement is provided in Attachment A to this PRR.

Prior to Site remediation, site assessments identified the following contaminants:

Site Contamination

- Mercury and TCE were the principal Site contaminants present in Site soils.
- VOCs were being released from the North and South TCE Source Areas to overburden and bedrock groundwater at concentrations exceeding groundwater quality standards. TCE was the predominant site-related VOC in overburden and bedrock groundwater samples.
- Soil gas samples collected from downgradient Site perimeter locations contained TCE along with tetrachloroethene and dichloroethene at less frequent detections and lower concentrations.
- TCE and its degradation products were found at several locations in on-site sewers; they were the only VOCs detected. Mercury was detected at low levels in each of the water samples obtained from on-site sewer locations**.**

Complete details on the nature and extent of contamination prior to Site remediation were provided in the *Final Investigative Report* (Harding Lawson Associates, 1999).

Remedial Program

Comprehensive remedial actions implemented at the Site were previously detailed in the *Final Engineering Report, On-Site Storm Sewers* (Harding Lawson Associates, 2000a) [2000 FER], and the *Final Engineering Report* (MACTEC, 2003) [2003 FER]. The FER also contained the *Soil Management Plan* (MACTEC, 2005) which contains details on the Site engineering and institutional controls that have been recorded at the Site. These reports were all approved by NYSDEC.

Subsequent to the 2003 FER, the NYSDEC issued an *Assignable Release and Covenant Not to Sue* (AR-CNTS) (NYSDEC, 2005), subject to implementation of an Operations and Maintenance (O&M) Plan that acknowledged the satisfactory implementation of all Site remedial actions. The AR-CNTS indicated that:

> "*…no further investigation or response will be required at the Site respecting the Existing Contaminations to render the Site safe to be used for the Contemplated Uses." … "The Department, therefore, hereby releases,… Volunteer for the further investigation and remediation of the Site, based on the release of threatened release of any Existing Contamination, provided that … Volunteer pursue to completion the Department-approved O&M Plan…"*

The Site is currently in post-closure groundwater monitoring. Fourteen remaining groundwater monitoring wells are sampled semi-annually for analysis of the six primary contaminants of concern remaining at the Site: tetrachloroethene; TCE; cis-1,2-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene (trans-1,2-DCE); 1,1-dichloroethene (1,1-DCE); and vinyl chloride by Environmental Protection Agency (EPA) Method 8260C. Additionally, the groundwater samples are tested for the full suite of 8260C constituents once every five years and prior to ending monitoring at any specified well. Unless otherwise agreed to by NYSDEC, contaminant conditions will continue to be monitored until groundwater concentrations of the COCs are at or below the NYSDEC Class GA Standards.

Complete details of the remedial program were provided in the April 2000 *Remedial Work Plan* (Harding Lawson Associates, 2000b), the *Final Engineering Report* (MACTEC, 2003), and the CCR (MACTEC, 2010b).

Evaluation of Remedy Performance, Effectiveness, and Protectiveness

The most current assessment of the effectiveness of the final Site remedial action is presented in the *2015 Annual Progress Report and Remedial Progress Evaluation* (Amec Foster Wheeler, 2016).

Institutional and Engineering Control (IC/EC) Plan Compliance Report

Specific details on IC/ECs for the Site were provided in the *Remedial Work Plan* (Harding Lawson Associates, 2000b), the *Soil Management Plan* (MACTEC, 2005), and the revised OM&M Manual (MACTEC, 2011). Certification of the IC/ECs is provided in the NYSDEC-approved certification form (Attachment B).

Monitoring Plan Compliance Report

The scope of the May and October 2015 semi-annual monitoring events, as well as future post-closure monitoring events, is provided in the revised OM&M Manual (MACTEC, 2011). A summary of recent monitoring, comparisons with remedial objectives, and conclusions and recommendations are provided in the *2015 Annual Progress Report and Remedial Progress Evaluation* (Amec Foster Wheeler, 2016). Amec Foster Wheeler has not identified deficiencies with the monitoring plan.

O&M Plan Compliance Report

The original Site O&M Manual (Harding ESE, 2001) governed all sampling events prior to the May 2011 monitoring event. The components of the plan included details of the DPVE System, including System maintenance; Site health and safety; Site environmental sampling; and reporting and notification requirements. The revised OM&M Manual (MACTEC, 2011), which governs OM&M activities beginning in 2011, was approved by NYSDEC on March 3, 2011 (NYSDEC, 2011b). The components of the revised OM&M Manual include Site groundwater monitoring, SSD system O&M, IC/ECs, and reporting and certification requirements.

O&M activities completed during the 2015 reporting period included two site-wide groundwater sampling events; yearly inspection of a SSD system at an off-site residential duplex; and the

submittal of the 2015 Annual Progress Report (Amec Foster Wheeler, 2016) to NYSDEC. Amec Foster Wheeler has not identified deficiencies with the revised OM&M Manual (MACTEC, 2011). The yearly inspection of the SSD system at the off-site residential duplex located at 80 Ames Street/215 Danforth Street was conducted on October 27, 2015 by the installation contractor, Mitigation Tech (National Environmental Health Association National Radon Proficiency Program ID certification #100722). The inspection report is included as Attachment C.

Overall PRR Conclusions and Recommendations

Compliance with the revised Site O&M Manual (MACTEC, 2011) including performance and effectiveness of the Site remedy is detailed in the 2015 Annual Progress Report (Amec Foster Wheeler, 2015). As indicated in that report, a comparison of analytical data from the 35 sampling events that occurred in 2001-2015 provides an evaluation of the Site remedial progress. The following overall conclusions and recommendations have been reached in this remedial progress evaluation:

- Following shutdown of the remedial treatment system in 2006 and subsequent decommissioning in 2010, overall contaminant levels in the Site monitoring wells have not demonstrated significant rebound effects, and overall declines remain evident.

- While certain COCs remain above the NYSDEC Class GA Standards, substantial declines of COC concentrations have been observed in all Site monitoring wells. The greatest decrease has been within the two former source areas, as COCs are near or below their respective NYSDEC Class GA Standards in South Source Area monitoring well OB-04 and North Source Area monitoring wells OB-08 and BR-15.

- COCs in four of the eight overburden wells are presently near or below the NYSDEC Class GA standards, including TW-04 along the downgradient eastern property boundary.

- Since the post-injection high concentrations in May 2011, the total overburden groundwater contaminant mass has dropped significantly and in May 2015 was at the lowest total ever. The substantial decrease in contaminant mass indicates that the 3DMe® has enhanced contaminant biodegradation in the overburden monitoring wells.

- Bedrock groundwater has now been affected by the enhanced contaminant biodegradation in the overlying overburden groundwater as indicated by the overall decreasing mass trend since 2012, as well as, the overall decreases in TCE contaminant mass in correlation with overall increases in TCE daughter products.

- In the southern portion of the Site the overburden groundwater contaminant plume is now stable based on the groundwater monitoring results from the past few years at south source area monitoring well OB-04, downgradient perimeter monitoring well TW-04, and plume monitoring well OB-06.

- Groundwater monitoring events will continue to be conducted semi-annually on all 14 remaining monitoring wells. Groundwater samples will be analyzed for the six primary COCs remaining at the Site: PCE; TCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCE; and vinyl chloride. These VOCs will be analyzed using EPA Method 8260C. Additionally, as detailed in the revised *Operations, Maintenance, and Monitoring Manual* (MACTEC, 2011), the groundwater samples will be analyzed for the full suite of 8260C constituents every five years and prior to ending monitoring at any specified well.

- In September 2010, ABB installed an SSD system to mitigate vapors beneath the basement at the 80 Ames Street/215 Danforth Street duplex as a precautionary measure. The yearly SSD system inspection and maintenance was performed by the installation contractor Mitigation Tech on October 27, 2015, and Mitigation Tech certified that the SSD System is sufficient to effectively maintain sub-slab depressurization. Inspections will continue to be performed by Mitigation Tech annually.

- During February 2015, Amec Foster Wheeler collected sub-slab vapor and indoor air (SSVIA) samples from the residence at 80 Ames Street to determine if continued operation of a sub-slab depressurization (SSD) system as precautionary measure was still warranted since it appears TCE is no longer present in the overburden site groundwater immediately upgradient of the 80 Ames Street residence. The complete results from the SSVIA sampling event were provided in the Amec Foster Wheeler's *Report for Sub-Slab Vapor and Indoor Air Sampling Event* (Amec Foster Wheeler, 2015).

References

Amec Foster Wheeler, 2016. *2015 Annual Progress Report and Remedial Progress Evaluation*, Former Taylor Instruments Site, Rochester, New York. Prepared for ABB, Inc. (February 18).

Harding ESE, 2001. *Dual-Phase Vacuum Extraction Remediation System Operation and Maintenance Manual (OM&M)*, prepared for the former Taylor Instruments Site, 95 Ames Street in Rochester, New York (March).

Harding Lawson Associates, 1999. *Final Investigative Report, Taylor Instruments Site, Rochester, New York.* Prepared for the New York State Department of Environmental Conservation (March).

Harding Lawson Associates, 2000a. *Final Engineering Report, On-Site Storm Sewers, Former Taylor Instruments Site, Rochester, New York.* Prepared for Combustion Engineering (January).

Harding Lawson Associates, 2000b. *Remedial Work Plan, Taylor Instruments Site, 95 Ames Street, Rochester, New York.* Prepared for Combustion Engineering (April).

MACTEC, 2003. *Final Engineering Report, Former Taylor Instruments Site, Rochester, New York.* Prepared for Combustion Engineering (September).

MACTEC, 2005. *Soil Management Plan, Former Taylor Instruments Facility, 95 Ames Street, Rochester, New York 14611*. Prepared for Combustion Engineering (April).

MACTEC, 2010a. *Revised Work Plan for Accelerated Bioremediation and Permanent Decommissioning of the Remedial Treatment System, Former Taylor Instruments Site, 95 Ames Street in Rochester, New York.* Prepared for the New York State Department of Environmental Conservation (June 11).

MACTEC, 2010b. *Construction Completion Report, Former Taylor Instruments Site, Monroe County, New York*. Prepared for the New York State Department of Environmental Conservation (December).

MACTEC, 2011. *Operations, Maintenance, and Monitoring Manual, Rev. 1, Former Taylor Instruments Site, Monroe County, New York.* Prepared for the New York State Department of Environmental Conservation. (March).

NYSDEC, 1997. Voluntary Cleanup Agreement, Taylor Instruments Site, Number B8-0508-97-02 (November).

NYSDEC, 2005. Letter to Ms. Jean H. McCreary with Nixon Peabody LLC (September 2).

NYSDEC, 2011a. Letter to Ricky Ryan of AMEC approving the CCR (February 16).

NYSDEC, 2011b. Letter to Ricky Ryan of AMEC approving the *Operations, Maintenance, and Monitoring Manual, Rev. 1, Former Taylor Instruments Site, Monroe County, New York.* (March 3).

NYSDEC, 2015. Email from Mr. Frank Sowers of the New York State Department of Environmental Conservation to Mr. Joe Deatherage with Amec Foster Wheeler Environment & Infrastructure, Inc. (May 18).

NYSDEC, 2016. *Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal*. (February 12).

Acronym List

2000 FER	*Final Engineering Report, On-Site Storm Sewers* (Harding Lawson Associates, 2000a)
2003 FER	*Final Engineering Report* (MACTEC, 2003)
3DMe®	3D Microemulsion®
µmole/L	micromole per liter
AMEC	AMEC Environment & Infrastructure, Inc.
AR-CNTS	Assignable Release and Covenant Not to Sue
CCR	*Construction Completion Report* (MACTEC, 2010b)
CE	Combustion Engineering
COC	contaminant of concern
1,1-DCE	1,1-dichloroethene
cis-1,2-DCE	cis-1,2-dichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
DPVE	dual-phase vacuum extraction
EPA	Environmental Protection Agency
HRC	Hydrogen Release Compound
IC/EC	institutional and engineering control
MACTEC	MACTEC Engineering and Consulting, Inc.
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	operation and maintenance
OM&M	operations, maintenance, and monitoring
PRR	Periodic Review Report
Site	location of the former Taylor Instruments Facility
SSD	sub-slab depressurization
SSVIA	sub-slab vapor and indoor air
System	DPVE and bedrock groundwater extraction and treatment system
TCE	trichloroethene
VCA	Voluntary Cleanup Agreement
VOC	volatile organic compound

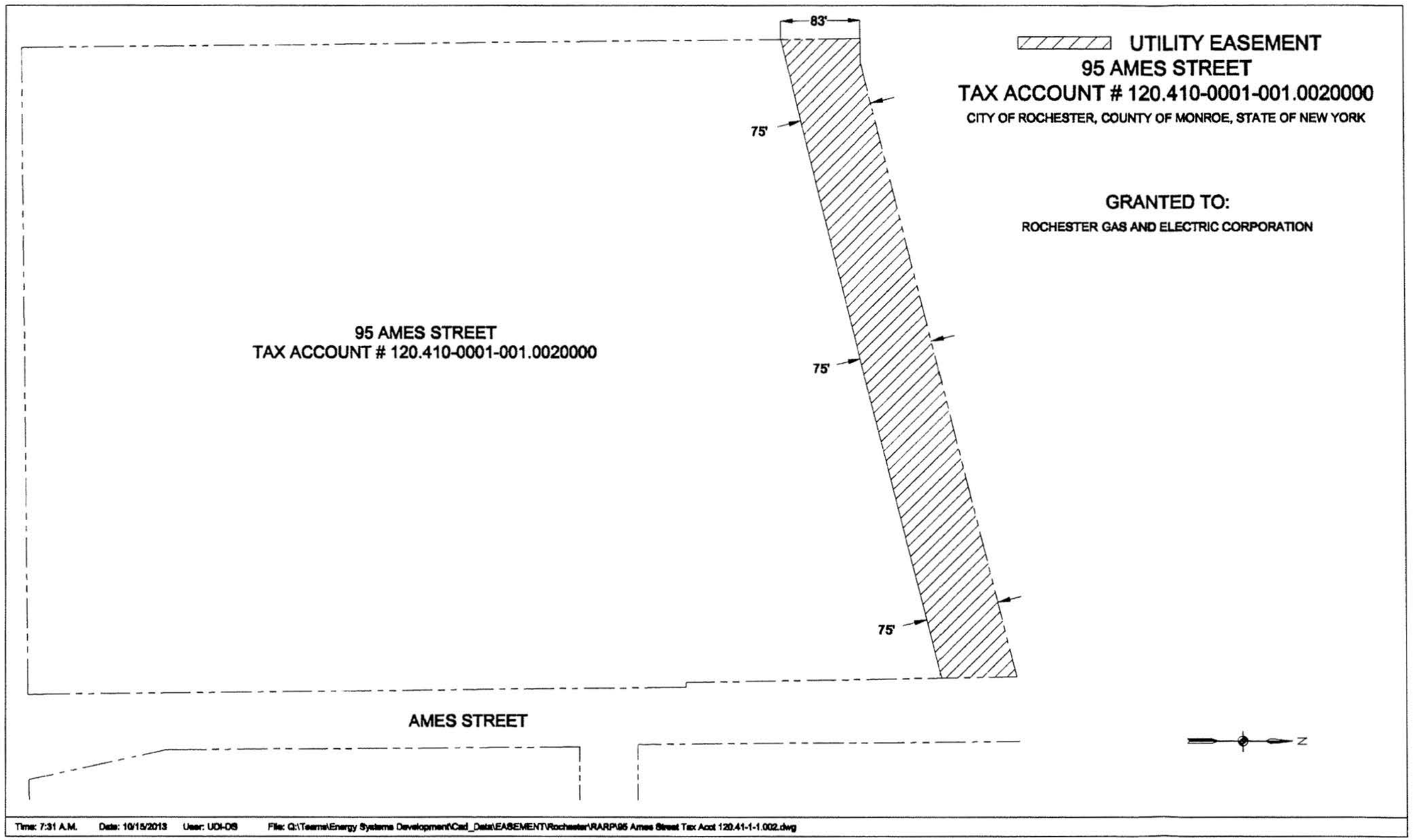
Attachment A

Rochester Gas & Electric Utility Easement

2425031.4

EXHIBIT "A"

MAP SHOWING EASEMENT AREA



3700227_1

Attachment B

NYSDEC-Approved Certification Form

95 Ames Street Certification

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. V00144

Site Name Former Taylor Instruments Facility

Site Address: 95 Ames Street Zip Code: 14611
City/Town: Rochester
County: Monroe
Site Acreage: 14.5

Reporting Period: February 14, 2015 to February 14, 2016

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative _____ Date _____

SITE NO. V00144 Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
120.410-1-2	ABB, Inc. (Attn: Melody Christopher)	Ground Water Use Restriction Landuse Restriction Soil Management Plan

~~Ground Water Use Restriction~~
~~Landuse Restriction~~
~~Soil Management Plan~~
~~Annual certification~~

~~120.42-1.4~~ ~~Roderick Nelson, Jr.~~ ~~Site Management Plan~~

~~Sub-slab depressurization system~~
~~Annual Certification~~

Box 4

Description of Engineering Controls

Parcel	Engineering Control
120.410-1-2	Vapor Mitigation (Future Buildings) Cover System Annual Certification

~~Cover System~~
~~Vapor Mitigation (future buildings)~~

~~120.42-1.4~~ ~~Vapor Mitigation~~

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. V00144

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Melody Christopher (print name) at ABB 5 Waterside Crossing, Windsor, CT, (print business address)

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Melody C. Christopher, ABB Inc. 2/16/2016

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification — Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Ricky Ryan (print name) at 2030 Falling Waters Rd., Knoxville, TN 37922 (print business address)

am certifying as a Professional Engineer for the ABB Inc., Remedial Party (Owner or Remedial Party)

Ricky Ryan

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

2/22/2016

Date

80 Ames Street/215 Danforth Street Certification

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. V00144

Site Name Former Taylor Instruments Facility

Site Address: 95 Ames Street Zip Code: 14611
City/Town: Rochester
County: Monroe
Site Acreage: 14.5

Reporting Period: February 14, 2015 to February 14, 2016

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. V00144 Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
~~120.410-1-2~~	~~ABB, Inc. (Attn: Melody Christopher)~~	~~Ground Water Use Restriction~~ ~~Landuse Restriction~~ ~~Soil Management Plan~~
		~~Ground Water Use Restriction~~ ~~Landuse Restriction~~ ~~Soil Management Plan~~ ~~Annual certification~~
120.42-1.4	Roderick Nelson, Jr.	Site Management Plan
		~~Sub-slab depressurization system~~ ~~Annual Certification~~

Box 4

Description of Engineering Controls

Parcel	Engineering Control
~~120.410-1-2~~	~~Vapor Mitigation~~ ~~Cover System~~
	~~Cover System~~ ~~Vapor Mitigation (future buildings)~~
120.42-1.4	Vapor Mitigation Annual Certification

Parcel 120.42-1.4 is located at 80 Ames Street/215 Danforth Street, Rochester, NY 14611

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) If a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. V00144

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Melody Christopher (print name) at 5 Wakeside Crossing, Windsor, CT (print business address),

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Melody B. Christopher, ABB Inc. — Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

2/16/2016 — Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Ricky Ryan (print name) at 2030 Falling Waters Rd., Knoxville, TN 37922 (print business address)

am certifying as a Professional Engineer for the ABB Inc., Remedial Party (Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

2/22/2016
Date

Attachment C

Mitigation Tech Inspection Report for Sub-Slab Depressurization System
80 Ames Street and 215 Danforth Street

mitigation tech *vapor intrusion specialists*

INSPECTION REPORT

October 29, 2015

Mr. Joe Deatherage, P.E.
Senior Engineer
AMEC Foster Wheeler
2030 Falling Waters Rd., STE 300
Knoxville, TN 37922
Via email: joe.deatherage@amecfw.com

Re: ABB Rochester - Former Taylor Instruments
Project No. 3031052006-35//// WO No. & PO No.: C012605008
Work site: 80 Ames St./215 Danforth St., Rochester, NY
Inspection Report for Sub-slab Depressurization System

For work completed October 27, 2015 per WO C012605008, July 15, 2015

1. Conducted a visual inspection of the complete System (e.g., vent fan, piping, warning device, labeling on systems, etc.): **SATISFACTORY**
2. Conducted an inspection of all surfaces to which vacuum is applied:**SATISFACTORY**
3. Inspected all components for condition and proper operation:**SATISFACTORY**
4. Identify and repair any leaks: **NO LEAKS OBSERVED**
5. Inspect the exhaust or discharge point to verify that no air intakes have been located nearby: **NO AIR INTAKES WITHIN TEN FEET**
6. Conduct an airstream velocity measurement:**SATISFACTORY**
7. Conduct pressure field extension testing (to ensure that the system is maintaining a vacuum beneath the entire slab): **SATISFACTORY**
8. Interview an appropriate occupantor owner seeking comments and observations regarding the operation of the System:**SATISFACTORY**

I certify that this system is effectively maintaining sub-slab depressurization.

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722 ***mitigationtech.com

APPENDIX C

TABLES

Table 1
Overburden Monitoring Wells with COCs Exceeding NYSDEC Class GA Standards
October 2015

2015 Annual Progress Report
and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

COC	NYSDEC Class GA Standard	Monitoring Well							
		OB-04	OB-06	OB-08	TW-04	TW-09	TW-17	TW-20	W-5
PCE	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TCE	5	2.36	**38.8**	1 U	1 U	**8.18**	1.83	**27.3**	**116**
cis-1,2-DCE	5	1 U	**9.68**	1 U	**5.18**	**38.9**	**6.59**	1 U	**51.5**
trans-1,2-DCE	5	1 U	1.09	**5.47**	1 U	**20.8**	1 U	1 U	**8.51**
1,1-DCE	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	**7.3**	**7.63**	1 U	1 U	**21**	**3**	1 U	**34.7**

All concentrations are in micrograms per liter.

Created by: NG on 12/01/15
Checked by: KJD on 12/03/15

Notes: **Bold and shaded** values indicate detection exceeding NYSDEC Class GA Standards
COC = contaminants of concern
DCE = dichloroethene
PCE = tetrachloroethene
TCE = trichloroethene
U = not detected at practical quantitation limit

Table 2
Bedrock Monitoring Wells with COCs Exceeding NYSDEC Class GA Standards
October 2015

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COC	NYSDEC Class GA Standard	Monitoring Well					
		BR-01	BR-02	BR-03	BR-04	BR-10	BR-15
PCE	5	1 U	1 U	1 U	1 U	1 U	1 U
TCE	5	**31.8**	**16.6**	**360**	**331**	**201**	1 U
cis-1,2-DCE	5	**906**	**21.7**	**76.4**	**661**	**343**	1 U
trans-1,2-DCE	5	**39.8**	1.54	1.77	**64.9**	**56.5**	1 U
1,1-DCE	5	4.03	1 U	1.86	**7.78**	1.61	1 U
Vinyl Chloride	2	**244**	1 U	1 U	**46.2**	**3.04**	**2.2**

All concentrations are in micrograms per liter.

Created by: NG on 12/01/15
Checked by: KJD on 12/03/15

Notes: **Bold and shaded** values indicate detection exceeding NYSDEC Class GA Standards.
COC = contaminants of concern
DCE = dichloroethene
PCE = tetrachloroethene
TCE = trichloroethene
U = not detected at practical quantitation limit

Table 3
Summary of VOC Results for Existing Overburden Wells for the 2000-2015 Sampling Events

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Sample ID	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
OB-04	11/19/00	--	70,000	2,900	--	--	--
OB-04	03/24/01	--	150	3.2 J	--	--	--
OB-04	06/18/01	--	39,000	21,000	--	--	--
OB-04	09/13/01	--	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)	NS (Dry)
OB-04	12/17/01	19.9	71,500	56,000	170	108	10.2
OB-04	03/12/02	12.9	65,600	1,640	16.6	3.8	--
OB-04	06/09/02	--	3,650	554	--	--	--
OB-04	09/23/02	1.8	3,760	1,950	7.5	4.9	2
OB-04	12/09/02	--	46.3	5.5	--	--	--
OB-04	03/22/03	--	11.3	1.3	--	--	--
OB-04	06/13/03	--	41.5	6.7	--	--	--
OB-04	09/21/03	6.0	2,780	125	1.9	--	--
OB-04	12/14/03	--	23.3	3	--	--	--
OB-04	06/19/04	--	394	87.2	1.3	--	--
OB-04	12/05/04	1.0	626	124	1.6	--	--
OB-04	06/26/05	--	367	141	2.4	--	--
OB-04	12/03/05	--	385	139	1.14	--	--
OB-04	07/20/06	--	252	153	1.56	--	--
OB-04	12/06/06	--	1,920	892	--	--	1.19
OB-04	05/03/07	--	618	399	3.19	--	--
OB-04	12/13/07	--	109	1,350	5.43	2.19	95.1
OB-04	05/05/08	--	125	875	5.72	1.60	145
OB-04	11/06/08	--	44.9	258	2.80	--	114
OB-04	05/06/09	--	28.9	102	2.27	--	21.7
OB-04	10/21/09	--	32.8	59.6	--	--	49.8
OB-04	05/12/10	--	5.76	5.69	1.77	--	9.74
OB-04	05/03/11	--	47.1	304	1.79	--	43.3
OB-04	11/01/11	--	5.68	51.1	2.51	--	33.2
OB-04	05/15/12	--	4.35	2.05	1.26	--	8.69
OB-04	10/30/12	--	3.94	2.31	--	--	4.25
OB-04	05/15/13	--	3.48	1.08	--	--	--
OB-04	11/13/13	--	2.95	--	--	--	2.44
OB-04	05/07/14	--	1.46	--	--	--	1.21
OB-04	10/28/14	--	--	--	--	--	4.25
OB-04	05/12/15	--	1.82	--	--	--	3.7
OB-04	10/27/15	--	2.36	--	--	--	7.3
OB-06	11/17/00	--	2,600	60	--	--	--
OB-06 (DUP)	11/17/00	--	3,300	80 J	--	--	--
OB-06	03/21/01	--	540	--	--	--	--
OB-06	06/15/01	--	720	12 J	--	--	--
OB-06	09/13/01	--	5,600	240	9.0 J	--	--
OB-06	12/13/01	--	637	13.7	--	--	--
OB-06	03/08/02	--	526	7.8	--	--	--

See notes at end of table

Table 3 (Continued)
Summary of VOC Results for Existing Overburden Wells for the 2000-2015 Sampling Events

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OB-06	06/07/02	--	184	2.8	--	--	--
OB-06	09/20/02	--	386	10.1	--	--	--
OB-06	12/06/02	--	100	1.5	--	--	--
OB-06	03/20/03	--	84.9	1.5	--	--	--
OB-06	06/11/03	--	52.7	1.1	--	--	--
OB-06	09/18/03	--	242	2.6	--	--	--
OB-06	12/11/03	--	60	1	--	--	--
OB-06	06/17/04	--	38.6	--	--	--	--
OB-06	12/02/04	--	31.9	1.4	--	--	--
OB-06	06/26/05	--	37.1	1.8	--	--	--
OB-06	12/02/05	--	117	4.71	--	--	--
OB-06	07/21/06	--	60.5	2.59	--	--	--
OB-06	12/10/06	--	87.8	2.69	--	--	--
OB-06	05/03/07	--	66.3	4.85	--	--	--
OB-06	12/12/07	--	82.9	3.31	--	--	--
OB-06	05/03/08	--	72.6	3.90	--	--	--
OB-06	11/05/08	--	89.8	4.82	--	--	--
OB-06	05/05/09	--	78.3	6.03	--	--	--
OB-06	10/20/09	--	121	12.6	--	--	--
OB-06	05/11/10	--	105	10.5	--	--	--
OB-06	05/03/11	--	60	77.4	--	--	--
OB-06	11/01/11	--	18.9	46.5	1.28	--	13.8
OB-06	05/15/12	--	25.4	7.56	--	--	2.72
OB-06	10/30/12	--	34.3	6.63	--	--	3.86
OB-06	05/15/13	--	40.1	7.5	--	--	2.56
OB-06	11/13/13	--	43.7	7.83	1.03	--	8.02
OB-06	05/07/14	--	36.5	6.80	--	--	2.51
OB-06	10/28/14	--	38.9	7.64	1.05	--	5.20
OB-06	05/12/15	--	22.9	5.14	--	--	3.26
OB-06	10/27/15	--	38.8	9.68	1.09	--	7.63
OB-08	11/16/00	--	40,000	390 J	--	--	--
OB-08	03/20/01	--	29,000	390 J	--	--	--
OB-08	06/19/01	--	15,000	240 J	--	--	--
OB-08	03/12/02	13.1	15,750	208	8.6	2.7	--
OB-08	06/10/02	--	5,370	--	--	--	--
OB-08	09/24/02	9.4	5,440	110	3.6	--	--
OB-08	12/09/02	8.9	8,050	94.2	5	1.3	--
OB-08	03/24/03	5.1	3,480	37.3	2.2	--	--
OB-08	06/13/03	3.9	2,250	15.3	1.2	--	--
OB-08	09/22/03	2.6	2,780	32.1	3.1	--	--
OB-08	12/15/03	3.3	1,360	10.8	1.5	--	--
OB-08	06/20/04	2.9	725	13.1	2.5	--	--
OB-08	12/06/04	--	429	5.80	--	--	--

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Table 3 (Continued)
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OB-08	06/29/05	1.3	570	3.3	--	--	--
OB-08	12/06/05	2.12	797	6.25	2.17	--	--
OB-08	07/21/06	2.13	890	7.85	3.91	--	--
OB-08	12/06/06	--	73.7	1,550	10.7	--	--
OB-08	05/03/07	--	2.48	3,750	29.6	12.7	3.08
OB-08	12/13/07	--	--	1,150	32.0	4.24	1.54
OB-08	05/05/08	--	--	41.4	8.07	--	47.8
OB-08	11/06/08	--	--	53.9	14.8	--	68.9
OB-08	05/06/09	--	--	42.5	10.2	--	83.8
OB-08	10/21/09	--	--	35.2	12.4	--	111
OB-08	05/12/10	--	--	30.5	3.44	--	36.0
OB-08	05/04/11	--	--	67.9	22.7	--	249
OB-08	11/02/11	--	--	--	15.5	--	4.73
OB-08	05/17/12	--	--	3.78	11.1	--	13.2
OB-08	10/31/12	--	--	--	11.2	--	3.15
OB-08	05/15/13	--	--	--	8.29	--	5.72
OB-08	11/14/13	--	--	--	2.44	--	--
OB-08	05/07/14	--	--	--	3.50	--	3.03
OB-08	10/28/14	--	--	--	9.57	--	--
OB-08	05/12/15	--	--	--	6.05	--	8.66
OB-08	10/27/15	--	--	--	5.47	--	--
TW-04	10/24/00	--	42	79	--	--	--
TW-04	03/22/01	--	14	16	--	--	--
TW-04	06/15/01	--	--	--	--	--	--
TW-04	09/14/01	--	27	38	--	--	--
TW-04	12/13/01	--	51.1	19.4	--	--	--
TW-04	03/05/02	--	51	3.7	--	--	--
TW-04	06/04/02	--	20.7	--	--	--	--
TW-04	09/17/02	--	21.2	7.1	--	--	--
TW-04	12/04/02	--	42.5	5.5	--	--	--
TW-04	03/18/03	--	--	--	--	--	--
TW-04	06/10/03	--	19.3	--	--	--	--
TW-04	09/16/03	--	29.2	3.1	--	--	--
TW-04	12/09/03	--	49.8	1.1	--	--	--
TW-04	06/15/04	--	12.7	--	--	--	--
TW-04	11/30/04	--	40.0	--	--	--	--
TW-04	06/24/05	--	9.20	1.7	--	--	--
TW-04	12/01/05	--	31.4	--	--	--	--
TW-04	07/18/06	--	27.9	--	--	--	--
TW-04	12/11/06	--	8.99	--	--	--	--
TW-04	05/03/07	--	4.66	--	--	--	--
TW-04	12/11/07	--	15.2	--	--	--	--
TW-04	05/03/08	--	4.40	--	--	--	--

See notes at end of table

Table 3 (Continued)
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TW-04	11/04/08	--	21.3	--	--	--	--
TW-04	05/04/09	--	4.78	--	--	--	--
TW-04	10/19/09	--	--	--	--	--	--
TW-04	05/11/10	--	5.32	--	--	--	--
TW-04	05/03/11	--	6.17	--	--	--	--
TW-04	11/01/11	--	8.9	2.44	--	--	--
TW-04	05/16/12	--	1.66	1.56	--	--	--
TW-04	10/31/12	--	--	2.85	--	--	--
TW-04	05/14/13	--	--	1.13	--	--	--
TW-04	11/13/13	--	--	6.87	--	--	--
TW-04	05/07/14	--	--	2.08	--	--	--
TW-04	10/28/14	--	--	8.24	--	--	--
TW-04	05/12/15	--	--	1.84	--	--	--
TW-04	10/27/15	--	--	5.18	--	--	--
TW-09	10/24/00	--	230	36	--	--	--
TW-09	03/27/01	--	120	1.9 J	--	--	--
TW-09	06/16/01	--	200	7.4	--	--	--
TW-09	09/16/01	--	150	9.6	--	--	--
TW-09	12/15/01	--	110	4	--	--	--
TW-09	03/06/02	--	55.4	2	--	--	--
TW-09	06/05/02	--	36.5	--	--	--	--
TW-09	09/19/02	--	91.5	4	--	--	--
TW-09	12/05/02	--	38	--	--	--	--
TW-09	03/19/03	--	--	--	--	--	--
TW-09	06/11/03	--	29.4	--	--	--	--
TW-09	09/17/03	--	77	6.4	--	--	--
TW-09	12/10/03	--	36.8	1.2	--	--	--
TW-09	06/16/04	--	43.1	1.0	--	--	--
TW-09	12/02/04	--	46.2	2.4	--	--	--
TW-09	06/24/05	--	48.2	1.7	--	--	--
TW-09	12/05/05	--	45.0	1.48	--	--	--
TW-09	07/18/06	--	56.7	1.35	--	--	--
TW-09	12/06/06	--	34.3	2.60	--	--	--
TW-09	05/03/07	--	31.2	3.01	1.46	--	--
TW-09	12/13/07	--	29.8	1.28	--	--	--
TW-09	05/05/08	--	50.5	4.70	4.87	--	--
TW-09	11/06/08	--	71.2	12.6	12.0	--	--
TW-09	05/06/09	--	72.1	32.6	32.0	--	5.83
TW-09	10/21/09	--	82.9	34.4	34.6	--	--
TW-09	05/12/10	--	56.7	12.8	14.3	--	--
TW-09	05/03/11	--	4.13	2.28	--	--	4.17
TW-09	11/02/11	--	1.24	4.23	7.07	--	6.26
TW-09	05/16/12	--	1.18	1.11	2.99	--	1.97

See notes at end of table

Table 3 (Continued)
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TW-09	11/01/12	--	--	--	--	--	--
TW-09	05/14/13	--	4.05	2.91	5.58	--	3.49
TW-09	11/12/13	--	--	3.38	6.92	--	9.03
TW-09	05/07/14	--	6.06	4.15	3.47	--	2.09
TW-09	10/29/14	--	2.98	12.5	9.86	--	12.9
TW-09	05/13/15	--	16.4	18.7	11.8	--	9.81
TW-09	10/28/15	--	8.18	38.9	20.8	--	21
TW-17	11/17/00	--	1,000	7.9J	--	--	--
TW-17	03/23/01	--	530	--	--	--	--
TW-17	06/16/01	--	490	--	--	--	--
TW-17	09/14/01	--	740	--	--	--	--
TW-17	12/14/01	--	515	--	--	--	--
TW-17	03/05/02	--	339	--	--	--	--
TW-17	06/04/02	--	393	--	--	--	--
TW-17	09/18/02	--	666	--	--	--	--
TW-17	12/04/02	--	390	--	--	--	--
TW-17	03/18/03	--	379	--	--	--	--
TW-17	06/10/03	--	282	--	--	--	--
TW-17	09/16/03	--	435	--	--	--	--
TW-17	12/09/03	--	441	--	--	--	--
TW-17	06/15/04	--	280	--	--	--	--
TW-17	11/30/04	--	407	6.9	--	--	--
TW-17	06/24/05	--	340	1.0	--	--	--
TW-17	12/01/05	--	397	1.35	--	--	--
TW-17	07/18/06	--	410	2.04	--	--	--
TW-17	12/06/06	--	246	7.47	--	--	--
TW-17	05/02/07	--	253	5.87	--	--	--
TW-17	12/12/07	--	296	3.98	--	--	--
TW-17	05/04/08	--	477	4.19	--	--	--
TW-17	11/05/08	--	270	110	--	--	--
TW-17	05/05/09	--	332	6.46	--	--	--
TW-17	10/20/09	--	94	199	5.92	--	--
TW-17	05/11/10	--	316	10.6	--	--	--
TW-17	05/05/11	--	205	115	--	--	--
TW-17	11/03/11	--	21.6	310	--	--	4.92
TW-17	05/16/12	--	2.16	156	--	--	6.28
TW-17	10/31/12	--	--	147	--	--	2.66
TW-17	05/16/13	--	2.63	556	1.22	--	39.3
TW-17	11/14/13	--	--	240	--	--	130
TW-17	05/08/14	--	1.38	112	4.21	--	48.0
TW-17	10/29/14	--	--	1.51	--	--	4.80
TW-17	05/13/15	--	--	2.74	--	--	2.1
TW-17	10/29/15	--	1.83	6.59	--	--	3

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TW-20	10/25/00	--	5.2	--	--	--	--
TW-20	03/27/01	--	12	--	--	--	--
TW-20	06/16/01	--	2.9 J	--	--	--	--
TW-20	09/14/01	--	--	--	--	--	--
TW-20	12/14/01	--	3.1	--	--	--	--
TW-20	03/06/02	--	2.4	--	--	--	--
TW-20	09/18/02	--	--	--	--	--	--
TW-20	12/04/02	--	11.6	--	--	--	--
TW-20	03/19/03	--	2.4	--	--	--	--
TW-20	06/10/03	--	--	--	--	--	--
TW-20	09/17/03	--	5.0	--	--	--	--
TW-20	12/10/03	--	14.8	--	--	--	--
TW-04	06/15/04	--	--	--	--	--	--
TW-20	12/01/04	--	--	--	--	--	--
TW-20	06/24/05	--	1.5	--	--	--	--
TW-20	12/01/05	--	6.32	--	--	--	--
TW-20	07/18/06	--	12.0	--	--	--	--
TW-20	12/06/06	--	13.2	--	--	--	--
TW-20	05/02/07	--	8.28	--	--	--	--
TW-20	12/11/07	--	4.58	--	--	--	--
TW-20	05/02/08	--	4.50	--	--	--	--
TW-20	11/04/08	--	23.0	3.47	--	--	--
TW-20	05/04/09	--	25.2	1.55	--	--	--
TW-20	10/19/09	--	78.8	5.50	--	--	--
TW-20	05/11/10	--	65.9	2.34	--	--	--
TW-20	05/04/11	--	65	2.86	--	--	--
TW-20	11/02/11	--	88.8	8.3	--	--	--
TW-20	05/17/12	--	80.8	4.58	--	--	--
TW-20	11/01/12	--	107	4.11	--	--	--
TW-20	05/16/13	--	72.3	3.14	--	--	--
TW-20	11/14/13	--	56.6	1.73	--	--	--
TW-20	05/08/14	--	48.4	4.48	--	--	--
TW-20	10/29/14	--	6.11	--	--	--	--
TW-20	05/13/15	--	30.2	2.25	--	--	--
TW-20	10/28/15	--	27.3	--	--	--	--
W-5	11/16/00	--	--	27	11	--	--
W-5	03/23/01	--	120	25	8.1	--	--
W-5	06/18/01	--	62	23	9.6	--	--
W-5	09/17/01	--	64	9.1	6.5	--	--
W-5	12/17/01	--	1,435	39.5	9	--	--
W-5 (DUP)	12/17/01	--	1,780	36.2	8.5	--	--
W-5	03/07/02	--	737	21.6	3.5	--	--
W-5 (DUP)	03/07/02	--	607	23.2	3.9	--	--

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Sample ID	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
W-5	06/06/02	--	155	15.7	--	--	--
W-5 (DUP)	06/06/02	--	150	13.8	--	--	--
W-5	09/19/02	--	960	49.6	--	--	--
W-5 (DUP)	09/19/02	--	676	48.5	4.7	--	--
W-5	12/05/02	--	777	52	3.6	--	--
W-5 (DUP)	12/05/02	--	843	51.7	4	--	--
W-5	03/20/03	--	262	132	3.4	--	--
W-5 (DUP)	03/20/03	--	232	119	3.3	--	--
W-5	06/11/03	--	234	128	5	--	--
W-5 (DUP)	06/11/03	--	234	152	5.1	--	--
W-5	09/18/03	--	510	129	4	--	--
W-5 (DUP)	09/18/03	--	444	112	3.9	--	--
W-5	12/11/03	--	550	127	3.5	--	--
W-5 (DUP)	12/11/03	--	520	118	3.4	--	--
W-5	06/16/04	--	348	98.9	5.4	--	--
W-5 (DUP)	06/16/04	--	360	71.6	4.6	--	--
W-5	12/02/04	--	569	125	4.7	--	--
W-5 (DUP)	12/02/04	--	725	89.4	4.4	--	--
W-5	06/25/05	--	381	98.2	3.7	--	--
W-5 (DUP)	06/25/05	--	380	93.2	3.5	--	--
W-5	12/05/05	--	1,100	76.9	2.13	--	--
W-5 (DUP)	12/05/05	--	916	69.5	--	--	--
W-5	07/19/06	--	212	104	2.34	--	3.63
W-5 (DUP)	07/19/06	--	219	99.0	2.30	--	3.81
W-5	12/05/06	--	263	122	2.89	--	7.14
W-5	05/03/07	--	1,140	340	4.61	--	4.43
W-5 (DUP)	05/03/07	--	1,070	336	4.60	--	4.00
W-5	12/13/07	--	835	158	3.83	--	22.1
W-5 (DUP)	12/13/07	--	850	124	3.36	--	16.1
W-5	05/05/08	2.41	1,180	314	4.41	--	6.77 J
W-5 (DUP)	05/05/08	2.25	1,110	342	4.33	--	13.6 J
W-5	11/06/08	--	687	143	3.28	--	8.86
W-5 (DUP)	11/06/08	--	703	126	2.88	--	8.85
W-5	05/06/09	--	961	124	2.61	--	1.33
W-5 (DUP)	05/06/09	--	961	123	2.69	--	--
W-5	10/21/09	--	664	59.9	1.55	--	5.39 J
W-5 (DUP)	10/21/09	--	642	68.2	1.61	--	7.42
W-5	05/12/10	--	601	164	2.08	--	5.04
W-5 (DUP)	05/12/10	--	591	159	2.08	--	5.27
W-5	05/04/11	--	445	117	1.39	--	1.51
W-5 (DUP)	05/04/11	--	432	141	1.62	--	1.53
W-5	11/03/11	--	293	130	1.41	--	12.5
W-5 (DUP)	11/03/11	--	325	153	1.74	--	17.0

See notes at end of table

Table 3 (Continued)
Summary of VOC Results for Existing Overburden Wells for the 2000-2015 Sampling Events

2015 Annual Progress Report
and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
W-5	05/17/12	--	230	139	5.37	--	39.5
W-5 (DUP)	05/17/12	--	220	136	5.19	--	37.2
W-5	11/01/12	--	195	85	13.1	--	34.8
W-5 (DUP)	11/01/12	--	191	83.9	12.9	--	34.2
W-5	05/16/13	--	218	75	10.6	--	35.3
DUP-01	05/16/13	--	228	74.6	10.3	--	33.8
W-5	11/14/13	--	182	69.5	10.2	--	36.5
DUP-01	11/14/13	--	185	69.8	9.97	--	33.8
W-5	05/08/14	--	182	49.7	7.35	--	14.9
DUP-01	05/08/14	--	177	52.1	7.71	--	15.3
W-5	10/29/14	--	141	57.9	10.9	--	39.7
DUP-01	10/29/14	--	155	55.6	10.3	--	33.9
W-5	05/13/15	--	106	40.5	6.15	--	26.1
DUP-01	05/13/15	--	109	42.5	6.11	--	27.0
W-5	10/28/15	--	116	51.5	8.51	--	34.7
DUP-01	10/28/15	--	122	50.6	8.01	--	31.5

Notes: -- = no detections
µg/L = micrograms per liter
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
DUP = duplicate
ID = identification
J = estimated value
NS = not sampled
TCE = trichloroethene
VOC = volatile organic compound

Prepared by NG on 12/02/15
Checked by KJD on 12/04/15

Table 4
Summary of VOC Results for Existing Bedrock Wells for the 2000-2015 Sampling Events

2015 Annual Progress Report
and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

Sample ID	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-01	11/17/00	--	180	550	4.3 J	--	3.5 J
BR-01	03/21/01	--	320	34	2.2 J	--	--
BR-01 (DUP)	03/21/01	--	320	35	2.4 J	--	--
BR-01	06/16/01	--	270	59	4.4 J	--	--
BR-01	09/14/01	--	31	170	16	--	--
BR-01	12/14/01	--	63.8	77.5	2	--	--
BR-01	03/09/02	--	47.3	5.5	1.6	--	--
BR-01	06/08/02	--	85.7	10.1	3.2	--	--
BR-01	09/20/02	--	107	16	4	--	--
BR-01	12/07/02	--	14.3	83	3.8	--	--
BR-01	03/21/03	--	25.8	2.1	1	--	--
BR-01	06/12/03	--	60.9	4.6	2.8	--	--
BR-01	09/19/03	--	102	11.4	1.7	--	--
BR-01	12/12/03	--	127	61.7	20.6	--	--
BR-01	06/18/04	--	551	42	6.1	--	--
BR-01	12/03/04	--	65	4.3	1.4	--	--
BR-01	06/26/05	--	199	6.5	1.0	--	--
BR-01	12/02/05	--	1.12	36.2	1.10	--	--
BR-01	07/19/06	--	--	3.09	--	--	--
BR-01	12/08/06	--	--	3.73	--	--	--
BR-01	05/02/07	--	67.5	10.6	--	--	--
BR-01	12/10/07	--	--	70.6	4.33	--	--
BR-01	05/02/08	--	4.19	10.7	1.63	--	--
BR-01	11/04/08	--	--	98.7	2.23	--	--
BR-01	05/04/09	--	3.26	11.3	1.95	--	--
BR-01	10/19/09	--	--	6.92	--	--	--
BR-01	05/11/10	--	9.23	12.8	2.02	--	--
BR-01	05/04/11	--	2.05	14.6	1.03	--	--
BR-01	11/03/11	--	--	41.6	--	--	3.61
BR-01	05/17/12	--	89.6	34.7	1.87	--	3.13
BR-01	10/31/12	--	--	29.6	--	--	7.88
BR-01	05/15/13	--	76.3	695	35.4	7.52	200
BR-01	11/14/13	--	111	1,470	34.4	6.87	406
BR-01	05/08/14	--	98.9	1,570	61.4	7.70	377
BR-01	10/29/14	--	86.9	1,590	56.6	7.62	320
BR-01	05/14/15	--	40.4	1,240	37.1	--	244
BR-01	10/29/15	--	31.8	906	39.8	4.03	244
BR-02	11/18/00	--	1,800	540	31 J	--	--
BR-02	03/21/01	--	1,200	95	--	--	--
BR-02	06/17/01	--	1,000	94	27 J	--	--
BR-02	09/15/01	--	7,000	1,500	63	31 J	--
BR-02	12/15/01	--	6,500	1,830	59.8	30.3	19.6
BR-02	03/09/02	--	588	79.6	20.8	1.2	--

See notes at end of table.

Table 4 (Continued)
Summary of VOC Results for Existing Bedrock Wells for the 2000-2015 Sampling Events

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Former Taylor Instruments Site
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Sample ID	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-02	03/09/02	--	568	122	2.2	--	--
BR-02	09/21/02	--	768	518	24.4	4.6	18.7
BR-02	12/07/02	--	694	172	29.8	--	5.6
BR-02	03/21/03	--	4,000	19,100	154	156	64.9
BR-02	06/13/03	--	710	17,900	120	122	68.1
BR-02	09/18/03	--	372	245	23.3	--	--
BR-02	12/12/03	--	324	58.2	18.2	--	--
BR-02	06/18/04	--	450	257	33.8	2.8	2.3
BR-02	12/03/04	--	647	242	23.4	1.4	1.4
BR-02	06/27/05	--	163	29	9.1	--	--
BR-02	12/03/05	--	114	23.1	9.08	--	--
BR-02	07/19/06	--	120	16.9	8.29	--	--
BR-02	12/08/06	1.32	113	31.1	11.3	--	--
BR-02	05/02/07	--	409	118	15.2	1.26	--
BR-02	12/10/07	--	134	38.6	14.1	--	--
BR-02	05/02/08	--	153	74.2	14.0	--	--
BR-02	11/04/08	--	90.9	48.1	11.4	--	1.54
BR-02	05/04/09	--	88.1	142	20.5	1.00	1.19
BR-02	10/19/09	--	254	100	13.4	1.03	1.22
BR-02	05/11/10	--	821	186	21.9	1.76	2.25
BR-02	05/04/11	--	237	56.2	8.89	--	--
BR-02	11/02/11	--	2230	483	24.6	4.35	8.25
BR-02	05/16/12	--	5070	1100	49.4	8.67	22
BR-02	11/01/12	--	44.5	23.3	4.69	--	--
BR-02	05/16/13	--	904	169	12.6	1.61	2.3
BR-02	11/13/13	--	27	24.1	3.45	--	--
BR-02	05/08/14	--	25,200	5,860	238	46.4	103
BR-02	10/29/14	--	25.3	19.7	2.52	--	--
BR-02	05/14/15	--	506	167	7.23	--	3.41
BR-02	10/29/15	--	16.6	21.7	1.54	--	--
BR-03	11/18/00	--	440	99	1.2 J	2.2 J	--
BR-03	03/22/01	--	810	12 J	--	3.2 J	--
BR-03	06/15/01	--	500	20 J	--	--	--
BR-03	09/14/01	--	330	7.8 J	--	--	--
BR-03	12/13/01	--	780	7.6	--	2.2	--
BR-03	03/08/02	--	599	9.8	--	2.1	--
BR-03	06/07/02	--	854	19.7	--	2.8	--
BR-03	09/20/02	--	370	6.5	--	--	--
BR-03	12/07/02	--	821	13.5	--	--	--
BR-03	03/21/03	--	590	7.7	--	2	--
BR-03	06/12/03	--	632	25.3	1.9	3	--
BR-03	09/18/03	--	1,150	10.4	1.5	3.1	--
BR-03	12/12/03	--	--	--	--	--	--

See notes at end of table.

Table 4 (Continued)
Summary of VOC Results for Existing Bedrock Wells for the 2000-2015 Sampling Events

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Sample ID	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-03	06/17/04	--	446	17.0	1.1	1.5	--
BR-03	12/03/04	--	60.6	27.0	--	1.0	--
BR-03	06/26/05	--	73.4	5.6	--	--	--
BR-03	12/02/05	--	5.57	21.0	--	--	--
BR-03	07/19/06	--	248	6.97	--	--	--
BR-03	12/08/06	--	29.7	27.3	--	--	--
BR-03	05/01/07	--	701	7.32	--	1.89	--
BR-03	12/11/07	--	35.4	21.8	--	--	--
BR-03	05/03/08	--	588	5.20	--	1.81	--
BR-03	11/04/08	--	61.8	4.61	--	--	--
BR-03	05/04/09	--	202	3.10	--	--	--
BR-03	10/19/09	--	365	29.3	1.02	2.05	--
BR-03	05/11/10	--	270	3.15	--	--	--
BR-03	05/03/11	--	52.5	75	--	--	--
BR-03	11/02/11	--	--	37.1	--	--	--
BR-03	05/16/12	--	573	43.4	1.18	1.89	--
BR-03	10/31/12	--	3.06	329	6.71	1.71	--
BR-03	05/16/13	--	596	23.2	4.92	1.83	--
BR-03	11/13/13	--	653	18.2	--	2.04	--
BR-03	05/08/14	--	519	15.3	1.66	1.72	--
BR-03	10/29/14	--	381	37.0	1.73	1.74	--
BR-03	05/14/15	--	353	40.6	1.12	1.40	--
BR-03	10/29/15	--	360	76.4	1.77	1.86	--
BR-04	11/19/00	--	10,000	600	140	17 J	25 J
BR-04	03/24/01	--	9,000	400	95 J	--	--
BR-04	06/19/01	--	4,300	320	61 J	--	--
BR-04	09/17/01	--	5,000	420	100 J	--	--
BR-04	12/17/01	1.2	5,700	430	79.9	9	27.4
BR-04	03/12/02	--	5,750	384	77	8.1	23.4
BR-04	06/10/02	--	4,570	338	49	--	--
BR-04	09/23/02	--	3,310	551	63.1	8.3	32.2
BR-04	12/09/02	--	5,300	535	77.6	8.3	27.1
BR-04	03/23/03	1.8	4,630	473	52	6.8	14.8
BR-04	06/13/03	--	302	1,280	19.5	3.6	1.2
BR-04	09/21/03	--	2,540	560	61	5.4	32.2
BR-04	12/14/03	--	3,650	507	51.9	6.2	14.3
BR-04	06/19/04	--	102	1,420	45.8	6.4	3.0
BR-04	12/05/04	--	4,090	2,810	90.0	15.3	8.3
BR-04	06/28/05	--	6.6	937	22.5	1.6	1.2
BR-04	12/03/05	--	16.4	127	2.21	--	--
BR-04	07/20/06	--	3,940	6,410	147	21.3	12.9
BR-04	12/09/06	--	5.32	2,030	24.1	3.17	5.21
BR-04	05/01/07	--	56.9	446	12.7	1.09	--

See notes at end of table.

Table 4 (Continued)
Summary of VOC Results for Existing Bedrock Wells for the 2000-2015 Sampling Events

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Sample ID	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-04	12/12/07	--	8.64	240	4.36	--	3.07
BR-04	05/04/08	--	332	647	17.7	2.83	1.37
BR-04	11/06/08	--	7.04	490	8.51	--	3.28
BR-04	05/06/09	--	498	163	10.9	1.59	--
BR-04	10/21/09	--	25.1	167	5.24	--	1.72
BR-04	05/12/10	--	325	321	11.7	1.37	--
BR-04	05/03/11	--	--	--	--	--	--
BR-04	11/01/11	--	4.29	5.02	--	--	--
BR-04	05/15/12	--	55.1	76.6	2.9	--	2.72
BR-04	10/31/12	--	4.9	4.77	--	--	--
BR-04	05/15/13	--	1,430	1,370	97.4	9.47	72.5
BR-04	11/12/13	--	638	1,320	66.9	9.96	77
BR-04	05/07/14	--	757	1,370	88.7	11.5	68.0
BR-04	10/29/14	--	514	955	77.4	9.33	55.1
BR-04	05/14/15	--	437	977	61.6	7.27	52.7
BR-04	10/29/15	--	331	661	64.9	7.78	46.2
BR-10	11/18/00	--	4,000	450	27 J	--	--
BR-10	03/28/01	--	4,700	980	110 J	--	--
BR-10	06/18/01	--	8,500	1,000	--	--	--
BR-10	09/17/01	--	8,700	1,700	160 J	--	--
BR-10	12/16/01	--	5,350	1,200	82.8	3.4	5.6
BR-10	03/11/02	--	3,745	1,090	78.2	3.9	5.5
BR-10	06/09/02	--	5,100	1,290	64.6	4.7	5.3
BR-10	09/22/02	--	--	120	9.8	--	--
BR-10	12/09/02	--	3,060	750	60.1	2.3	--
BR-10	03/22/03	--	2,580	886	42.2	2.5	3.1
BR-10	06/13/03	--	2,950	1,080	61.7	3.2	5.1
BR-10	09/21/03	--	2,250	400	49.4	2	16.1
BR-10	12/13/03	--	1,420	442	36.4	1.4	8.8
BR-10	06/19/04	--	1,520	507	62.9	2.9	6.8
BR-10	12/04/04	--	1,270	436	41.2	1.8	5.0
BR-10	06/27/05	1.3	558	166	17.3	--	1.3
BR-10	12/03/05	1.62	474	122	11.1	--	--
BR-10	07/20/06	--	52.3	12.2	1.53	--	--
BR-10	12/08/06	--	28.2	15.0	1.26	--	--
BR-10	05/02/07	1.01	226	57.8	5.87	--	--
BR-10	12/12/07	--	17.8	3.83	--	--	--
BR-10	05/04/08	2.94	357	94.6	10.7	--	1.40
BR-10	11/05/08	--	8.44	3.02	--	--	--
BR-10	05/05/09	1.67	235	66.1	10.3	--	1.07
BR-10	10/20/09	--	48	22	2.79	--	--
BR-10	05/11/10	1.72	277	77.3	14.0	--	--
BR-10	05/03/11	1.36	725	312	26.3	--	2.79

See notes at end of table.

Table 4 (Continued)
Summary of VOC Results for Existing Bedrock Wells for the 2000-2015 Sampling Events

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Former Taylor Instruments Site
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Sample ID	Date Sampled	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	1,1-DCE (µg/L)	Vinyl Chloride (µg/L)
BR-10	11/01/11	1.35	417	231	25.3	--	2.87
BR-10	05/15/12	1.28	532	192	24	--	1.13
BR-10	10/31/12	--	7.28	2.21	--	--	--
BR-10	05/15/13	--	517	153	26	--	--
BR-10	11/12/13	1.76	444	173	29	1.11	2.17
BR-10	05/07/14	--	329	189	32.8	--	1.02
BR-10	10/29/14	1.33	345	299	46.2	1.49	2.72
BR-10	05/14/15	--	142	260	38.5	--	--
BR-10	10/29/15	--	201	343	56.5	1.61	3.04
BR-15	11/19/00	--	2,700	54 J	--	--	--
BR-15 (DUP)	11/19/00	--	2,700	49 J	--	--	--
BR-15	03/26/01	--	2,500	33 J	--	--	--
BR-15	06/18/01	--	2,300	49 J	--	--	--
BR-15	09/16/01	--	4,800	110 J	--	--	--
BR-15	12/16/01	--	6,590	189	28.2	2	1.1
BR-15	03/11/02	--	5,500	172	36.6	2.2	--
BR-15	06/09/02	--	5,800	373	36.9	4.6	3.8
BR-15	09/22/02	--	4,390	555	40.3	7.5	5.4
BR-15	12/08/02	--	4,740	177	43.6	2.8	--
BR-15	03/22/03	--	2,500	404	21.9	4.3	1.2
BR-15	06/13/03	--	1,180	1,390	24.8	8.4	3.9
BR-15	09/21/03	--	1,230	580	35.3	6.9	8.3
BR-15	12/13/03	--	2,000	194	24.9	2.8	--
BR-15	12/12/07	--	212	380	2.81	1.48	15.7
BR-15	05/04/08	--	43.4	449	2.94	1.38	28.2
BR-15	11/06/08	--	4.08	4.04	--	--	--
BR-15	05/06/09	--	261	105	1.33	--	6.40
BR-15	10/20/09	--	38.0	19.3	--	--	--
BR-15	05/12/10	--	167	123	2.12	--	3.11
BR-15	05/04/11	--	1.74	27.2	--	--	25.9
BR-15	11/02/11	--	1.01	8.81	--	--	10.8
BR-15	05/16/12	--	--	--	--	--	--
BR-15	11/01/12	--	--	--	--	--	--
BR-15	05/14/13	--	--	1.53	--	--	7.51
BR-15	11/12/13	--	--	--	1.02	--	8.9
BR-15	05/07/14	--	1.64	8.33	2.47	--	41.1
BR-15	10/28/14	--	--	1.28	1.77	--	11.3
BR-15	05/13/15	--	--	1.94	--	--	16.9
BR-15	10/28/15	--	--	--	--	--	2.2

Notes:
-- = no detections
µg/L = micrograms per liter
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
DUP = duplicate
ID = identification
J = estimated value
TCE = trichloroethene
VOC = volatile organic compound

Prepared by NG on 12/02/15
Checked by KJD on 12/04/15

APPENDIX D

LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORMS

MAY 2015
LABORATORY REPORTS AND CHAIN-OF-CUSTODY FORMS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-78686-1
Client Project/Site: Former Taylor Instruments

For:
AMEC Foster Wheeler E & I, Inc
9725 Cogdill Road
Knoxville, Tennessee 37932

Attn: Mr. Joe Deatherage

Authorized for release by:
5/28/2015 10:28:28 AM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

Table of Contents

Sample Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-78686-1	BR-02	Water	05/14/15 14:00	05/16/15 08:30
490-78686-2	BR-03	Water	05/14/15 12:35	05/16/15 08:30
490-78686-3	BR-04	Water	05/14/15 10:50	05/16/15 08:30
490-78686-4	BR-10	Water	05/14/15 09:28	05/16/15 08:30
490-78686-5	BR-01	Water	05/14/15 08:20	05/16/15 08:30
490-78686-6	QAFB-01	Water	05/14/15 14:25	05/16/15 08:30
490-78686-7	QARB-01	Water	05/14/15 14:30	05/16/15 08:30
490-78686-8	QATB-01 Trip Blank	Water	05/14/15 00:01	05/16/15 08:30
490-78686-9	W-5	Water	05/13/15 15:55	05/16/15 08:30
490-78686-10	TW-09	Water	05/13/15 14:15	05/16/15 08:30
490-78686-11	TW-20	Water	05/13/15 13:00	05/16/15 08:30
490-78686-12	TW-17	Water	05/13/15 11:00	05/16/15 08:30
490-78686-13	BR-15	Water	05/13/15 10:25	05/16/15 08:30
490-78686-14	DUP-01	Water	05/13/15 00:01	05/16/15 08:30
490-78686-15	OB-04	Water	05/12/15 13:15	05/16/15 08:30
490-78686-16	OB-06	Water	05/12/15 14:35	05/16/15 08:30
490-78686-17	OB-08	Water	05/12/15 16:30	05/16/15 08:30
490-78686-18	TW-04	Water	05/12/15 11:15	05/16/15 08:30

Job ID: 490-78686-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-78686-1

Comments
No additional comments.

Receipt
The samples were received on 5/16/2015 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9º C.

GC/MS VOA
Method(s) 8260C: The following samples was diluted due to the nature of the sample matrix: BR-04 (490-78686-3) and BR-01 (490-78686-5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: BR-02
Date Collected: 05/14/15 14:00
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 19:12	1
cis-1,2-Dichloroethene	**167**		1.00		ug/L			05/22/15 19:12	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 19:12	1
trans-1,2-Dichloroethene	**7.23**		1.00		ug/L			05/22/15 19:12	1
Trichloroethene	**506**		10.0		ug/L			05/24/15 09:32	10
Vinyl chloride	**3.41**		1.00		ug/L			05/22/15 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*05/22/15 19:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*05/24/15 09:32*	*10*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*05/22/15 19:12*	*1*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*		*05/24/15 09:32*	*10*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*05/22/15 19:12*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*05/24/15 09:32*	*10*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/22/15 19:12*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/24/15 09:32*	*10*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: BR-03
Date Collected: 05/14/15 12:35
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**1.40**		1.00		ug/L			05/22/15 17:50	1
cis-1,2-Dichloroethene	**40.6**		1.00		ug/L			05/22/15 17:50	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 17:50	1
trans-1,2-Dichloroethene	**1.12**		1.00		ug/L			05/22/15 17:50	1
Trichloroethene	**353**		5.00		ug/L			05/22/15 23:16	5
Vinyl chloride	ND		1.00		ug/L			05/22/15 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*05/22/15 17:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*05/22/15 23:16*	*5*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*05/22/15 17:50*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*05/22/15 23:16*	*5*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*05/22/15 17:50*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*05/22/15 23:16*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/22/15 17:50*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/22/15 23:16*	*5*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: BR-04
Date Collected: 05/14/15 10:50
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	**7.27**		5.00		ug/L			05/22/15 16:25	5
cis-1,2-Dichloroethene	**977**		5.00		ug/L			05/22/15 16:25	5
Tetrachloroethene	ND		5.00		ug/L			05/22/15 16:25	5
trans-1,2-Dichloroethene	**61.6**		5.00		ug/L			05/22/15 16:25	5
Trichloroethene	**437**		5.00		ug/L			05/22/15 16:25	5
Vinyl chloride	**52.7**		5.00		ug/L			05/22/15 16:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*05/22/15 16:25*	*5*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*05/22/15 16:25*	*5*
Dibromofluoromethane (Surr)	*87*		*70 - 130*		*05/22/15 16:25*	*5*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/22/15 16:25*	*5*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: BR-10
Date Collected: 05/14/15 09:28
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 19:39	1
cis-1,2-Dichloroethene	**260**		5.00		ug/L			05/24/15 09:59	5
Tetrachloroethene	ND		1.00		ug/L			05/22/15 19:39	1
trans-1,2-Dichloroethene	**38.5**		1.00		ug/L			05/22/15 19:39	1
Trichloroethene	**142**		1.00		ug/L			05/22/15 19:39	1
Vinyl chloride	ND		1.00		ug/L			05/22/15 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*05/22/15 19:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*05/24/15 09:59*	*5*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/22/15 19:39*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/24/15 09:59*	*5*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*05/22/15 19:39*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*05/24/15 09:59*	*5*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/22/15 19:39*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/24/15 09:59*	*5*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: BR-01
Date Collected: 05/14/15 08:20
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.00		ug/L			05/22/15 16:53	5
cis-1,2-Dichloroethene	**1240**		25.0		ug/L			05/22/15 18:17	25
Tetrachloroethene	ND		5.00		ug/L			05/22/15 16:53	5
trans-1,2-Dichloroethene	**37.1**		5.00		ug/L			05/22/15 16:53	5
Trichloroethene	**40.4**		5.00		ug/L			05/22/15 16:53	5
Vinyl chloride	**244**		5.00		ug/L			05/22/15 16:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*05/22/15 16:53*	*5*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*05/22/15 18:17*	*25*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/22/15 16:53*	*5*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*05/22/15 18:17*	*25*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*05/22/15 16:53*	*5*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*05/22/15 18:17*	*25*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/22/15 16:53*	*5*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/22/15 18:17*	*25*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: QAFB-01
Date Collected: 05/14/15 14:25
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 17:20	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 17:20	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 17:20	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 17:20	1
Trichloroethene	ND		1.00		ug/L			05/22/15 17:20	1
Vinyl chloride	ND		1.00		ug/L			05/22/15 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*05/22/15 17:20*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*05/22/15 17:20*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*05/22/15 17:20*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/22/15 17:20*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: QARB-01
Date Collected: 05/14/15 14:30
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 18:44	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 18:44	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 18:44	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 18:44	1
Trichloroethene	ND		1.00		ug/L			05/22/15 18:44	1
Vinyl chloride	ND		1.00		ug/L			05/22/15 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*05/22/15 18:44*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*05/22/15 18:44*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*05/22/15 18:44*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/22/15 18:44*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: QATB-01 Trip Blank
Date Collected: 05/14/15 00:01
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 15:31	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 15:31	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 15:31	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 15:31	1
Trichloroethene	ND		1.00		ug/L			05/22/15 15:31	1
Vinyl chloride	ND		1.00		ug/L			05/22/15 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*05/22/15 15:31*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*05/22/15 15:31*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*05/22/15 15:31*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/22/15 15:31*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: W-5
Date Collected: 05/13/15 15:55
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 20:06	1
cis-1,2-Dichloroethene	**40.5**		1.00		ug/L			05/22/15 20:06	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 20:06	1
trans-1,2-Dichloroethene	**6.15**		1.00		ug/L			05/22/15 20:06	1
Trichloroethene	**106**		1.00		ug/L			05/22/15 20:06	1
Vinyl chloride	**26.1**		1.00		ug/L			05/22/15 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*05/22/15 20:06*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*05/22/15 20:06*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*05/22/15 20:06*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/22/15 20:06*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**147**		1.00		mg/L			05/21/15 09:54	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: TW-09
Date Collected: 05/13/15 14:15
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 20:33	1
cis-1,2-Dichloroethene	**18.7**		1.00		ug/L			05/22/15 20:33	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 20:33	1
trans-1,2-Dichloroethene	**11.8**		1.00		ug/L			05/22/15 20:33	1
Trichloroethene	**16.4**		1.00		ug/L			05/22/15 20:33	1
Vinyl chloride	**9.81**		1.00		ug/L			05/22/15 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*05/22/15 20:33*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*05/22/15 20:33*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*05/22/15 20:33*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/22/15 20:33*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: TW-20
Date Collected: 05/13/15 13:00
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 21:00	1
cis-1,2-Dichloroethene	**2.25**		1.00		ug/L			05/22/15 21:00	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 21:00	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 21:00	1
Trichloroethene	**30.2**		1.00		ug/L			05/22/15 21:00	1
Vinyl chloride	ND		1.00		ug/L			05/22/15 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*05/22/15 21:00*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*05/22/15 21:00*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*05/22/15 21:00*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/22/15 21:00*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: TW-17
Date Collected: 05/13/15 11:00
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 21:27	1
cis-1,2-Dichloroethene	**2.74**		1.00		ug/L			05/22/15 21:27	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 21:27	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 21:27	1
Trichloroethene	ND		1.00		ug/L			05/22/15 21:27	1
Vinyl chloride	**2.10**		1.00		ug/L			05/22/15 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*05/22/15 21:27*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/22/15 21:27*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*05/22/15 21:27*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/22/15 21:27*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**3.75**		1.00		mg/L			05/21/15 10:14	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: BR-15
Date Collected: 05/13/15 10:25
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 21:54	1
cis-1,2-Dichloroethene	**1.94**		1.00		ug/L			05/22/15 21:54	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 21:54	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 21:54	1
Trichloroethene	ND		1.00		ug/L			05/22/15 21:54	1
Vinyl chloride	**16.9**		1.00		ug/L			05/22/15 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*05/22/15 21:54*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/22/15 21:54*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*05/22/15 21:54*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/22/15 21:54*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: DUP-01
Date Collected: 05/13/15 00:01
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 23:43	1
cis-1,2-Dichloroethene	**42.5**		1.00		ug/L			05/22/15 23:43	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 23:43	1
trans-1,2-Dichloroethene	**6.11**		1.00		ug/L			05/22/15 23:43	1
Trichloroethene	**109**		1.00		ug/L			05/22/15 23:43	1
Vinyl chloride	**27.0**		1.00		ug/L			05/22/15 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*05/22/15 23:43*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/22/15 23:43*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*05/22/15 23:43*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*05/22/15 23:43*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: OB-04
Date Collected: 05/12/15 13:15
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/23/15 00:10	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			05/23/15 00:10	1
Tetrachloroethene	ND		1.00		ug/L			05/23/15 00:10	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/23/15 00:10	1
Trichloroethene	**1.82**		1.00		ug/L			05/23/15 00:10	1
Vinyl chloride	**3.70**		1.00		ug/L			05/23/15 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*05/23/15 00:10*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*05/23/15 00:10*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*05/23/15 00:10*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/23/15 00:10*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: OB-06
Date Collected: 05/12/15 14:35
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-16
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 15:58	1
cis-1,2-Dichloroethene	**5.14**		1.00		ug/L			05/22/15 15:58	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 15:58	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 15:58	1
Trichloroethene	**22.9**		1.00		ug/L			05/22/15 15:58	1
Vinyl chloride	**3.26**		1.00		ug/L			05/22/15 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/22/15 15:58*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*05/22/15 15:58*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*05/22/15 15:58*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/22/15 15:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**131**		1.00		mg/L			05/21/15 10:34	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: OB-08
Date Collected: 05/12/15 16:30
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-17
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 22:22	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 22:22	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 22:22	1
trans-1,2-Dichloroethene	**6.05**		1.00		ug/L			05/22/15 22:22	1
Trichloroethene	ND		1.00		ug/L			05/22/15 22:22	1
Vinyl chloride	**8.66**		1.00		ug/L			05/22/15 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*05/22/15 22:22*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*05/22/15 22:22*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*05/22/15 22:22*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/22/15 22:22*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: TW-04
Date Collected: 05/12/15 11:15
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-18
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 22:49	1
cis-1,2-Dichloroethene	**1.84**		1.00		ug/L			05/22/15 22:49	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 22:49	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 22:49	1
Trichloroethene	ND		1.00		ug/L			05/22/15 22:49	1
Vinyl chloride	ND		1.00		ug/L			05/22/15 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*05/22/15 22:49*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*05/22/15 22:49*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*05/22/15 22:49*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/22/15 22:49*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**223**		1.00		mg/L			05/21/15 10:54	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 490-250435/6
Matrix: Water
Analysis Batch: 250435

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/22/15 14:59	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 14:59	1
Tetrachloroethene	ND		1.00		ug/L			05/22/15 14:59	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/22/15 14:59	1
Trichloroethene	ND		1.00		ug/L			05/22/15 14:59	1
Vinyl chloride	ND		1.00		ug/L			05/22/15 14:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*05/22/15 14:59*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*05/22/15 14:59*	*1*
Dibromofluoromethane (Surr)	*88*		*70 - 130*		*05/22/15 14:59*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/22/15 14:59*	*1*

Lab Sample ID: LCS 490-250435/3
Matrix: Water
Analysis Batch: 250435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20.0	17.70		ug/L		88	79 - 124
cis-1,2-Dichloroethene	20.0	21.00		ug/L		105	76 - 125
Tetrachloroethene	20.0	18.30		ug/L		91	80 - 126
trans-1,2-Dichloroethene	20.0	19.58		ug/L		98	79 - 126
Trichloroethene	20.0	15.99		ug/L		80	80 - 123
Vinyl chloride	20.0	20.79		ug/L		104	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
Dibromofluoromethane (Surr)	*88*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-78686-13 MS
Matrix: Water
Analysis Batch: 250435

Client Sample ID: BR-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		50.0	42.39		ug/L		85	70 - 142
cis-1,2-Dichloroethene	1.94		50.0	49.98		ug/L		96	68 - 138
Tetrachloroethene	ND		50.0	44.80		ug/L		90	72 - 145
trans-1,2-Dichloroethene	ND		50.0	47.22		ug/L		93	66 - 143
Trichloroethene	ND		50.0	38.25		ug/L		76	73 - 144
Vinyl chloride	16.9		50.0	70.54		ug/L		107	56 - 129

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
Dibromofluoromethane (Surr)	*89*		*70 - 130*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 490-78686-13 MS
Matrix: Water
Analysis Batch: 250435

Client Sample ID: BR-15
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: 490-78686-13 MSD
Matrix: Water
Analysis Batch: 250435

Client Sample ID: BR-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		50.0	43.35		ug/L		87	70 - 142	2	17
cis-1,2-Dichloroethene	1.94		50.0	51.55		ug/L		99	68 - 138	3	17
Tetrachloroethene	ND		50.0	48.43		ug/L		97	72 - 145	8	16
trans-1,2-Dichloroethene	ND		50.0	48.34		ug/L		95	66 - 143	2	16
Trichloroethene	ND		50.0	39.76		ug/L		79	73 - 144	4	17
Vinyl chloride	16.9		50.0	73.07		ug/L		112	56 - 129	4	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
Dibromofluoromethane (Surr)	*88*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 490-250874/7
Matrix: Water
Analysis Batch: 250874

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.00		ug/L			05/24/15 06:22	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			05/24/15 06:22	1
Tetrachloroethene	ND		1.00		ug/L			05/24/15 06:22	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			05/24/15 06:22	1
Trichloroethene	ND		1.00		ug/L			05/24/15 06:22	1
Vinyl chloride	ND		1.00		ug/L			05/24/15 06:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*05/24/15 06:22*	*1*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*05/24/15 06:22*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*05/24/15 06:22*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*05/24/15 06:22*	*1*

Lab Sample ID: LCS 490-250874/3
Matrix: Water
Analysis Batch: 250874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20.0	18.75		ug/L		94	79 - 124
cis-1,2-Dichloroethene	20.0	23.08		ug/L		115	76 - 125
Tetrachloroethene	20.0	22.00		ug/L		110	80 - 126
trans-1,2-Dichloroethene	20.0	21.80		ug/L		109	79 - 126

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 490-250874/3
Matrix: Water
Analysis Batch: 250874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichloroethene			20.0	19.24		ug/L		96	80 - 123		
Vinyl chloride			20.0	23.66		ug/L		118	68 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
Dibromofluoromethane (Surr)	*87*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 490-250874/4
Matrix: Water
Analysis Batch: 250874

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene			20.0	19.00		ug/L		95	79 - 124	1	17
cis-1,2-Dichloroethene			20.0	22.72		ug/L		114	76 - 125	2	17
Tetrachloroethene			20.0	21.38		ug/L		107	80 - 126	3	16
trans-1,2-Dichloroethene			20.0	21.80		ug/L		109	79 - 126	0	16
Trichloroethene			20.0	19.36		ug/L		97	80 - 123	1	17
Vinyl chloride			20.0	23.44		ug/L		117	68 - 120	1	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
Dibromofluoromethane (Surr)	*85*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: 490-78770-B-28 MS
Matrix: Water
Analysis Batch: 250874

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Dichloroethene	ND		50.0	41.32		ug/L		83	70 - 142		
cis-1,2-Dichloroethene	ND		50.0	46.12		ug/L		92	68 - 138		
Tetrachloroethene	ND		50.0	49.14		ug/L		98	72 - 145		
trans-1,2-Dichloroethene	ND		50.0	46.14		ug/L		92	66 - 143		
Trichloroethene	ND		50.0	42.85		ug/L		86	73 - 144		
Vinyl chloride	ND		50.0	50.20		ug/L		100	56 - 129		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
Dibromofluoromethane (Surr)	*91*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 490-78770-C-28 MSD
Matrix: Water
Analysis Batch: 250874

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		50.0	41.10		ug/L		82	70 - 142	1	17
cis-1,2-Dichloroethene	ND		50.0	46.64		ug/L		93	68 - 138	1	17
Tetrachloroethene	ND		50.0	47.28		ug/L		95	72 - 145	4	16
trans-1,2-Dichloroethene	ND		50.0	45.92		ug/L		92	66 - 143	0	16
Trichloroethene	ND		50.0	42.53		ug/L		85	73 - 144	1	17
Vinyl chloride	ND		50.0	50.81		ug/L		102	56 - 129	1	17

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
Dibromofluoromethane (Surr)	*91*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-250078/3
Matrix: Water
Analysis Batch: 250078

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			05/21/15 03:33	1

Lab Sample ID: LCS 490-250078/4
Matrix: Water
Analysis Batch: 250078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			100	105.9		mg/L		106	90 - 110		

Lab Sample ID: LCSD 490-250078/5
Matrix: Water
Analysis Batch: 250078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			100	106.2		mg/L		106	90 - 110	0	20

Lab Sample ID: 490-78538-C-3 MS
Matrix: Water
Analysis Batch: 250078

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	1690	E	100	1487	E 4	mg/L		-207	80 - 120		

GC/MS VOA

Analysis Batch: 250435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-78686-1	BR-02	Total/NA	Water	8260C	
490-78686-2	BR-03	Total/NA	Water	8260C	
490-78686-2	BR-03	Total/NA	Water	8260C	
490-78686-3	BR-04	Total/NA	Water	8260C	
490-78686-4	BR-10	Total/NA	Water	8260C	
490-78686-5	BR-01	Total/NA	Water	8260C	
490-78686-5	BR-01	Total/NA	Water	8260C	
490-78686-6	QAFB-01	Total/NA	Water	8260C	
490-78686-7	QARB-01	Total/NA	Water	8260C	
490-78686-8	QATB-01 Trip Blank	Total/NA	Water	8260C	
490-78686-9	W-5	Total/NA	Water	8260C	
490-78686-10	TW-09	Total/NA	Water	8260C	
490-78686-11	TW-20	Total/NA	Water	8260C	
490-78686-12	TW-17	Total/NA	Water	8260C	
490-78686-13	BR-15	Total/NA	Water	8260C	
490-78686-13 MS	BR-15	Total/NA	Water	8260C	
490-78686-13 MSD	BR-15	Total/NA	Water	8260C	
490-78686-14	DUP-01	Total/NA	Water	8260C	
490-78686-15	OB-04	Total/NA	Water	8260C	
490-78686-16	OB-06	Total/NA	Water	8260C	
490-78686-17	OB-08	Total/NA	Water	8260C	
490-78686-18	TW-04	Total/NA	Water	8260C	
LCS 490-250435/3	Lab Control Sample	Total/NA	Water	8260C	
MB 490-250435/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 250874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-78686-1	BR-02	Total/NA	Water	8260C	
490-78686-4	BR-10	Total/NA	Water	8260C	
490-78770-B-28 MS	Matrix Spike	Total/NA	Water	8260C	
490-78770-C-28 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	
LCS 490-250874/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-250874/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-250874/7	Method Blank	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 250078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-78538-C-3 MS	Matrix Spike	Total/NA	Water	300.0	
490-78686-9	W-5	Total/NA	Water	300.0	
490-78686-12	TW-17	Total/NA	Water	300.0	
490-78686-16	OB-06	Total/NA	Water	300.0	
490-78686-18	TW-04	Total/NA	Water	300.0	
LCS 490-250078/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-250078/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-250078/3	Method Blank	Total/NA	Water	300.0	

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: BR-02
Date Collected: 05/14/15 14:00
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 19:12	JJR	TAL NSH
Total/NA	Analysis	8260C		10	5 mL	5 mL	250874	05/24/15 09:32	JJR	TAL NSH

Client Sample ID: BR-03
Date Collected: 05/14/15 12:35
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 17:50	JJR	TAL NSH
Total/NA	Analysis	8260C		5	5 mL	5 mL	250435	05/22/15 23:16	JJR	TAL NSH

Client Sample ID: BR-04
Date Collected: 05/14/15 10:50
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	5 mL	5 mL	250435	05/22/15 16:25	JJR	TAL NSH

Client Sample ID: BR-10
Date Collected: 05/14/15 09:28
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 19:39	JJR	TAL NSH
Total/NA	Analysis	8260C		5	5 mL	5 mL	250874	05/24/15 09:59	JJR	TAL NSH

Client Sample ID: BR-01
Date Collected: 05/14/15 08:20
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	5 mL	5 mL	250435	05/22/15 16:53	JJR	TAL NSH
Total/NA	Analysis	8260C		25	5 mL	5 mL	250435	05/22/15 18:17	JJR	TAL NSH

Client Sample ID: QAFB-01
Date Collected: 05/14/15 14:25
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 17:20	JJR	TAL NSH

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Client Sample ID: QARB-01
Date Collected: 05/14/15 14:30
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 18:44	JJR	TAL NSH

Client Sample ID: QATB-01 Trip Blank
Date Collected: 05/14/15 00:01
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 15:31	JJR	TAL NSH

Client Sample ID: W-5
Date Collected: 05/13/15 15:55
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 20:06	JJR	TAL NSH
Total/NA	Analysis	300.0		1	10 mL		250078	05/21/15 09:54	JHS	TAL NSH

Client Sample ID: TW-09
Date Collected: 05/13/15 14:15
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 20:33	JJR	TAL NSH

Client Sample ID: TW-20
Date Collected: 05/13/15 13:00
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 21:00	JJR	TAL NSH

Client Sample ID: TW-17
Date Collected: 05/13/15 11:00
Date Received: 05/16/15 08:30

Lab Sample ID: 490-78686-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 21:27	JJR	TAL NSH
Total/NA	Analysis	300.0		1	10 mL		250078	05/21/15 10:14	JHS	TAL NSH

Client Sample ID: BR-15

Lab Sample ID: 490-78686-13

Date Collected: 05/13/15 10:25

Matrix: Water

Date Received: 05/16/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 21:54	JJR	TAL NSH

Client Sample ID: DUP-01

Lab Sample ID: 490-78686-14

Date Collected: 05/13/15 00:01

Matrix: Water

Date Received: 05/16/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 23:43	JJR	TAL NSH

Client Sample ID: OB-04

Lab Sample ID: 490-78686-15

Date Collected: 05/12/15 13:15

Matrix: Water

Date Received: 05/16/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/23/15 00:10	JJR	TAL NSH

Client Sample ID: OB-06

Lab Sample ID: 490-78686-16

Date Collected: 05/12/15 14:35

Matrix: Water

Date Received: 05/16/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 15:58	JJR	TAL NSH
Total/NA	Analysis	300.0		1	10 mL		250078	05/21/15 10:34	JHS	TAL NSH

Client Sample ID: OB-08

Lab Sample ID: 490-78686-17

Date Collected: 05/12/15 16:30

Matrix: Water

Date Received: 05/16/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 22:22	JJR	TAL NSH

Client Sample ID: TW-04

Lab Sample ID: 490-78686-18

Date Collected: 05/12/15 11:15

Matrix: Water

Date Received: 05/16/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	250435	05/22/15 22:49	JJR	TAL NSH
Total/NA	Analysis	300.0		1	10 mL		250078	05/21/15 10:54	JHS	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-78686-1

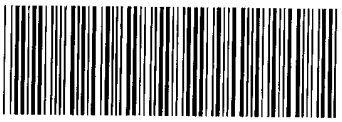
Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11342	03-31-16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM


490-78686 Chain of Custody

Cooler Received/Opened On 5/16/2015 @ 0830

1. Tracking # 2003 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 1.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? ~~Bubblewrap~~ Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) EZA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) EZA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) EZA

I certify that I attached a label with the unique LIMS number to each container (intial) EZA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

Client Information	Sampler: Noel Garland	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No. 490-513-112.2
Client Contact: Mr. Joe Deatherage	Phone: 865-207-9213	E-Mail: shali.brown@testamericainc.com		Page: 1 of 2
Company: AMEC Environment & Infrastructure, Inc.		Analysis Requested		Job #:
Address: 9725 Cogdill Road	Due Date Requested: STANDARD			Preservation Codes:
City: Knoxville	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: TN, 37932				
Phone: 865-218-1049(Tel)	PO #: C012603123			Other:
Email: joe.deatherage@amec.com	WO #:			
Project Name: Former Taylor Instruments	Project #: 30310572006			
Site: Rochester, NY	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCE PCE 1,1-DCE cis/trans 1,2 DCE vinyl chloride	Sulfate 300.0			624 VOC's standard list			RUN OB-08 on Full List Instrument					Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N			A									
BR-02	5-14-15	1400	Grab	W			X													*5 day TAT on BR-02
BR-03	"	1235	"	"			X													
BR-04	"	1050	"	"			X													
BR-10	"	0928	"	"			X													
BR-01	"	0820	"	"			X													
QAFB-01	"	1425	"	"			X													
QARB-01	"	1430	"	"			X													
QATB-01 Trip Blank	—	—	—	"			X													
W-5	5-13-15	1555	Grab	W			X	X												
TW-09	"	1415					X													
TW-20	"	1300					X													

Loc: 490 78686

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements: *TW-04 has minimal contamination

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5-16-15 830 / Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: / Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: / Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.9

*Please take precautions to eliminate any Cross Contamination with TW-04.

5/28/2015

Client Information	Sampler: Noel Garland	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 490-513-112.2
Client Contact: Mr. Joe Deatherage	Phone: 865-202-9713	E-Mail: shali.brown@testamericainc.com		Page: 2 of 2
Company: AMEC Environment & Infrastructure, Inc.		Analysis Requested		Job #:
Address: 9725 Cogdill Road	Due Date Requested: STANDARD			
City: Knoxville	TAT Requested (days):			
State, Zip: TN, 37932				
Phone: 865-218-1049(Tel)	PO #: C012603123			
Email: joe.deatherage@amec.com	WO #:			
Project Name: Former Taylor Instruments	Project #: 303105 2006			
Site: Rochester, NY	SSOW#:			

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCE PCE 1,1-DCE cis/trans 1,2 DCE vinyl chloride	Sulfate 300.0	624 VOC's standard list	RUN OB-08 on Full List Instrument	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A			
TW-17	5-13-15	1100	Grab	W			X	X				
BR-15	"	1025					X					
Dup-01	"	"					X					
OB-04	5-12-15	1315					X					
OB-06		1435					X	X				
OB-08		1630					X					
TW-04		1115					X	X				*

Loc: 490
78686

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

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

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

Special Instructions/QC Requirements: * TW-04 has minimal contamination

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				5-16-15 830	TAN

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.9

* Please take precautions to eliminate any Cross Contamination

5/28/2015

30 SEP 15
30 SEP 15

Client Information	Sampler: Noel Garland	Lab PM: Brown, Shali	Carrier Tracking No(s):	COC No: 490-513-112.2
Client Contact: Mr. Joe Deatherage	Phone: 865-307-9713	E-Mail: shali.brown@testamericainc.com		Page: 2 of 2
Company: AMEC Environment & Infrastructure, Inc.		Analysis Requested		Job #:
Address: 9725 Cogdill Road	Due Date Requested: STANDARD			Preservation Codes:
City: Knoxville	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
State, Zip: TN, 37932				Other:
Phone: 865-218-1049(Tel)	PO #: C012603123			
Email: joe.deatherage@amec.com	WO #:			
Project Name: Former Taylor Instruments	Project #: 30310S2006			
Site: Rochester, NY	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B TCE PCE 1,1-DCE cis/trans 1,2 DCE vinyl chloride	Sulfate 300.0	624 VOC's standard list	RUN OB-08 on Full List Instrument	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	N	A		X	
TW-17	5-13-15	1100	Grab	W			X	X				
BR-15	"	1025					X					
Dup-01	"	"					X					
OB-04	5-12-15	1315					X					
OB-06		1435					X	X				
OB-08		1630					X					
TW-04		1115					X	X				*
BR-15 (MS)		1025					X					Matrix Spike
BR-15 (MSD)		1025					X					Matrix Spike Duplicate

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

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

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

Special Instructions/QC Requirements: * TW-04 has minimal contamination

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

* Please take precautions to eliminate any cross contamination

Login Sample Receipt Checklist

Client: AMEC Foster Wheeler E & I, Inc

Job Number: 490-78686-1

Login Number: 78686
List Number: 1
Creator: Abernathy, Eric

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

May 29, 2015

Joe Deatherage
AMEC Environment & Infrastructure, Inc.
9725 Cogdill Road
Knoxville, TN 37923
USA

RE: **FRM. TAYLOR INSTRUMENTS**
Microseeps Workorder: 15561

Dear Joe Deatherage:

Enclosed are the analytical results for sample(s) received by the laboratory on Monday, May 18, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robbin Robl 05/29/2015
rrobl@microseeps.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 20

CERTIFICATE OF ANALYSIS

Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received
155610001	TW-04	Water	5/12/2015 11:15	5/18/2015 08:30
155610002	OB-08	Water	5/12/2015 16:30	5/18/2015 08:30
155610003	OB-06	Water	5/12/2015 14:35	5/18/2015 08:30
155610004	OB-04	Water	5/12/2015 13:15	5/18/2015 08:30
155610005	TW-17	Water	5/13/2015 11:00	5/18/2015 08:30
155610006	W-5	Water	5/13/2015 15:55	5/18/2015 08:30

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PROJECT SUMMARY

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

Batch Comments

Batch: EDON/2521 - Low Level Volatile Fatty Acids

The method blank contain a concentration above the MDL, but below the PQL. Analyte Formic acid. Results for this analyte in associated samples may be bias high.

Batch: DISG/4593 - RSK175 QC

The relative percent difference between the sample and sample duplicate exceeded laboratory control limits; reference sample 155450003. Analyte Ethene. Both results were below reporting limits.

Batch: DISG/4599 - RSK175 QC

The percent recovery for the laboratory control sample was below laboratory control limits. Analytes Propene. Results associated to the analytes in samples may be bias low.

The relative percent difference between the sample and sample duplicate exceeded laboratory control limits; reference sample 155710003. Analyte Ethene. Both results were below reporting limits.

The relative percent difference between the sample and sample duplicate exceeded laboratory control limits; reference sample 155710005. Analyte Methane, Ethane and Ethene. Both results were below reporting limits.

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ANALYTICAL RESULTS

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

Lab ID: **155610001** Date Received: 5/18/2015 08:30 Matrix: Water

Sample ID: **TW-04** Date Collected: 5/12/2015 11:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G			Analytical Method: AM23G					
Lactic Acid	**0.10 U**	mg/l	0.10	0.012	1	5/20/2015 22:05	KB	
Acetic Acid	**0.070 U**	mg/l	0.070	0.0080	1	5/20/2015 22:05	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.011	1	5/20/2015 22:05	KB	
Formic Acid	**0.059J**	mg/l	0.10	0.0070	1	5/20/2015 22:05	KB	B
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1	5/20/2015 22:05	KB	
Pyruvic Acid	**0.034J**	mg/l	0.15	0.0090	1	5/20/2015 22:05	KB	
i-Pentanoic Acid	**0.022J**	mg/l	0.15	0.0080	1	5/20/2015 22:05	KB	
Pentanoic Acid	**0.031J**	mg/l	0.070	0.014	1	5/20/2015 22:05	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.10	1	5/20/2015 22:05	KB	
Hexanoic Acid	**0.50 U**	mg/l	0.50	0.12	1	5/20/2015 22:05	KB	
RISK - MICR								
Analysis Desc: EPA RSK175			Analytical Method: EPA RSK175					
Methane	**910**	ug/l	50	4.2	100	5/26/2015 19:09	SL	d
Ethene	**0.20 U**	ug/l	0.20	0.030	1	5/26/2015 13:22	SL	D1

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

Lab ID: **155610002** Date Received: 5/18/2015 08:30 Matrix: Water

Sample ID: **OB-08** Date Collected: 5/12/2015 16:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G		Analytical Method: AM23G						
Lactic Acid	**0.038J**	mg/l	0.10	0.012	1	5/21/2015 00:31	KB	
Acetic Acid	**0.11**	mg/l	0.070	0.0080	1	5/21/2015 00:31	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.011	1	5/21/2015 00:31	KB	
Formic Acid	**0.060J**	mg/l	0.10	0.0070	1	5/21/2015 00:31	KB	B
Butyric Acid	**0.050 U**	mg/l	0.050	0.0070	1	5/21/2015 00:31	KB	
Pyruvic Acid	**0.036J**	mg/l	0.15	0.0090	1	5/21/2015 00:31	KB	
i-Pentanoic Acid	**0.023J**	mg/l	0.15	0.0080	1	5/21/2015 00:31	KB	
Pentanoic Acid	**0.070 U**	mg/l	0.070	0.014	1	5/21/2015 00:31	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.10	1	5/21/2015 00:31	KB	
Hexanoic Acid	**0.50 U**	mg/l	0.50	0.12	1	5/21/2015 00:31	KB	

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ANALYTICAL RESULTS

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

Lab ID: **155610003** Date Received: 5/18/2015 08:30 Matrix: Water

Sample ID: **OB-06** Date Collected: 5/12/2015 14:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G		Analytical Method: AM23G						
Lactic Acid	**0.10 U**	mg/l	0.10	0.012	1	5/21/2015 01:19	KB	
Acetic Acid	**11**	mg/l	0.70	0.080	10	5/21/2015 12:28	KB	d
Propionic Acid	**0.33**	mg/l	0.050	0.011	1	5/21/2015 01:19	KB	
Formic Acid	**0.18**	mg/l	0.10	0.0070	1	5/21/2015 01:19	KB	B
Butyric Acid	**0.26**	mg/l	0.050	0.0070	1	5/21/2015 01:19	KB	
Pyruvic Acid	**0.061J**	mg/l	0.15	0.0090	1	5/21/2015 01:19	KB	
i-Pentanoic Acid	**0.064J**	mg/l	0.15	0.0080	1	5/21/2015 01:19	KB	
Pentanoic Acid	**0.026J**	mg/l	0.070	0.014	1	5/21/2015 01:19	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.10	1	5/21/2015 01:19	KB	
Hexanoic Acid	**0.50 U**	mg/l	0.50	0.12	1	5/21/2015 01:19	KB	
RISK - MICR								
Analysis Desc: EPA RSK175		Analytical Method: EPA RSK175						
Methane	**18000**	ug/l	50	4.2	100	5/26/2015 19:20	SL	d
Ethene	**1.4**	ug/l	0.20	0.030	1	5/26/2015 13:34	SL	D1

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ANALYTICAL RESULTS

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

Lab ID: **155610004** Date Received: 5/18/2015 08:30 Matrix: Water

Sample ID: **OB-04** Date Collected: 5/12/2015 13:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G	Analytical Method: AM23G							
Lactic Acid	**0.016J**	mg/l	0.10	0.012	1	5/21/2015 02:08	KB	
Acetic Acid	**5.9**	mg/l	0.070	0.0080	1	5/21/2015 02:08	KB	
Propionic Acid	**0.074**	mg/l	0.050	0.011	1	5/21/2015 02:08	KB	
Formic Acid	**0.11**	mg/l	0.10	0.0070	1	5/21/2015 02:08	KB	B
Butyric Acid	**0.42**	mg/l	0.050	0.0070	1	5/21/2015 02:08	KB	
Pyruvic Acid	**0.049J**	mg/l	0.15	0.0090	1	5/21/2015 02:08	KB	
i-Pentanoic Acid	**0.038J**	mg/l	0.15	0.0080	1	5/21/2015 02:08	KB	
Pentanoic Acid	**0.022J**	mg/l	0.070	0.014	1	5/21/2015 02:08	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.10	1	5/21/2015 02:08	KB	
Hexanoic Acid	**0.50 U**	mg/l	0.50	0.12	1	5/21/2015 02:08	KB	

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ANALYTICAL RESULTS

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

Lab ID: **155610005** Date Received: 5/18/2015 08:30 Matrix: Water

Sample ID: **TW-17** Date Collected: 5/13/2015 11:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G			Analytical Method: AM23G					
Lactic Acid	**0.18J**	mg/l	1.0	0.12	10	5/21/2015 13:17	KB	d
Acetic Acid	**79**	mg/l	0.70	0.080	10	5/21/2015 13:17	KB	d
Propionic Acid	**0.83**	mg/l	0.50	0.11	10	5/21/2015 13:17	KB	d
Formic Acid	**1.4**	mg/l	0.10	0.0070	1	5/21/2015 02:56	KB	B
Butyric Acid	**6.2**	mg/l	0.050	0.0070	1	5/21/2015 02:56	KB	
Pyruvic Acid	**0.15J**	mg/l	0.15	0.0090	1	5/21/2015 02:56	KB	
i-Pentanoic Acid	**0.18**	mg/l	0.15	0.0080	1	5/21/2015 02:56	KB	
Pentanoic Acid	**0.10**	mg/l	0.070	0.014	1	5/21/2015 02:56	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.10	1	5/21/2015 02:56	KB	
Hexanoic Acid	**1.8**	mg/l	0.50	0.12	1	5/21/2015 02:56	KB	
RISK - MICR								
Analysis Desc: EPA RSK175			Analytical Method: EPA RSK175					
Methane	**17000**	ug/l	50	4.2	100	5/27/2015 10:57	SL	D1,d
Ethene	**2.5**	ug/l	0.20	0.030	1	5/26/2015 13:51	SL	D1

CERTIFICATE OF ANALYSIS

Microseeps/Pace Analytical Energy Services, LLC
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ANALYTICAL RESULTS

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

Lab ID: **155610006** Date Received: 5/18/2015 08:30 Matrix: Water

Sample ID: **W-5** Date Collected: 5/13/2015 15:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G		Analytical Method: AM23G						
Lactic Acid	**0.012J**	mg/l	0.10	0.012	1	5/21/2015 03:45	KB	
Acetic Acid	**0.070 U**	mg/l	0.070	0.0080	1	5/21/2015 03:45	KB	
Propionic Acid	**0.050 U**	mg/l	0.050	0.011	1	5/21/2015 03:45	KB	
Formic Acid	**0.082J**	mg/l	0.10	0.0070	1	5/21/2015 03:45	KB	B
Butyric Acid	**0.0093J**	mg/l	0.050	0.0070	1	5/21/2015 03:45	KB	
Pyruvic Acid	**0.15 U**	mg/l	0.15	0.0090	1	5/21/2015 03:45	KB	
i-Pentanoic Acid	**0.15 U**	mg/l	0.15	0.0080	1	5/21/2015 03:45	KB	
Pentanoic Acid	**0.025J**	mg/l	0.070	0.014	1	5/21/2015 03:45	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.10	1	5/21/2015 03:45	KB	
Hexanoic Acid	**0.50 U**	mg/l	0.50	0.12	1	5/21/2015 03:45	KB	
RISK - MICR								
Analysis Desc: EPA RSK175		Analytical Method: EPA RSK175						
Methane	**1200**	ug/l	2.5	0.21	5	5/27/2015 11:07	SL	D1,d
Ethene	**2.7**	ug/l	0.20	0.030	1	5/26/2015 14:15	SL	D1

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

DEFINITIONS/QUALIFIERS

Disclaimer : The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAx, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
B	The analyte was detected in the associated blank.
d	The analyte concentration was determined from a dilution.
D1	The duplicate relative percent difference (RPD) exceeded laboratory control limits.

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QUALITY CONTROL DATA

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

QC Batch: EDON/2521 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 155610001, 155610002, 155610003, 155610004, 155610005, 155610006

METHOD BLANK: 35027

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.10 U	0.10	
Acetic Acid	mg/l	0.070 U	0.070	
Propionic Acid	mg/l	0.050 U	0.050	
Formic Acid	mg/l	0.027J	0.10	B
Butyric Acid	mg/l	0.050 U	0.050	
Pyruvic Acid	mg/l	0.15 U	0.15	
i-Pentanoic Acid	mg/l	0.15 U	0.15	
Pentanoic Acid	mg/l	0.070 U	0.070	
i-Hexanoic Acid	mg/l	0.20 U	0.20	
Hexanoic Acid	mg/l	0.50 U	0.50	

LABORATORY CONTROL SAMPLE: 35028

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	1.8	93	70-130	
Acetic Acid	mg/l	2	1.9	96	70-130	
Propionic Acid	mg/l	2	2.0	98	70-130	
Formic Acid	mg/l	2	1.8	89	70-130	
Butyric Acid	mg/l	2	1.9	95	70-130	
Pyruvic Acid	mg/l	2	1.8	90	70-130	
i-Pentanoic Acid	mg/l	2	1.8	92	70-130	
Pentanoic Acid	mg/l	2	1.8	90	70-130	
i-Hexanoic Acid	mg/l	2	1.9	94	70-130	
Hexanoic Acid	mg/l	2	1.7	85	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 35029 35030 Original: 155610001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0.011	2	2.0	2.0	98	99	70-130	1	30	

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QUALITY CONTROL DATA

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 35029 35030 Original: 155610001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Acetic Acid	mg/l	0	2	2.1	2.1	104	105	70-130	0.96	30	
Propionic Acid	mg/l	0	2	2.1	2.1	106	107	70-130	0.94	30	
Formic Acid	mg/l	0.059	2	1.9	1.9	94	94	70-130	0	30	
Butyric Acid	mg/l	0.0023	2	2.1	2.1	105	106	70-130	0.95	30	
Pyruvic Acid	mg/l	0.034	2	1.9	1.9	93	93	70-130	0	30	
i-Pentanoic Acid	mg/l	0.022	2	2.1	2.1	102	103	70-130	0.98	30	
Pentanoic Acid	mg/l	0.031	2	2.1	2.1	104	104	70-130	0	30	
i-Hexanoic Acid	mg/l	0	2	2.2	2.2	110	108	70-130	1.8	30	
Hexanoic Acid	mg/l	0.04	2	2.2	2.2	108	108	70-130	0	30	

Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

QC Batch: EDON/2526 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 155610003, 155610005

METHOD BLANK: 35115

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.10 U	0.10	
Acetic Acid	mg/l	0.070 U	0.070	
Propionic Acid	mg/l	0.050 U	0.050	

LABORATORY CONTROL SAMPLE: 35116

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.0	98	70-130	
Acetic Acid	mg/l	2	2.0	101	70-130	
Propionic Acid	mg/l	2	2.0	102	70-130	

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Pittsburgh, PA 15238
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QUALITY CONTROL DATA

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

QC Batch: DISG/4593 Analysis Method: EPA RSK175

QC Batch Method: EPA RSK175

Associated Lab Samples: 155610001, 155610003, 155610005, 155610006

METHOD BLANK: 35150

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	
Ethene	ug/l	0.20 U	0.20	D1

LABORATORY CONTROL SAMPLE & LCSD: 35151 35152

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	44	40	40	91	90	85-115	1.1	20	
Ethene	ug/l	78	72	71	93	92	85-115	1.1	20	D1

SAMPLE DUPLICATE: 35153 Original: 155450003

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
RISK						
Methane	ug/l	0.18	0.21J	14	20	
Ethene	ug/l	0.024	0.20 U	47	20	D1

SAMPLE DUPLICATE: 35154 Original: 155450004

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
RISK						
Methane	ug/l	0.046	0.048J	4.9	20	
Ethene	ug/l	0.017	0.20 U	0.59	20	D1

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Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

QC Batch: DISG/4599 Analysis Method: EPA RSK175

QC Batch Method: EPA RSK175

Associated Lab Samples: 155610005, 155610006

METHOD BLANK: 35188

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.11J	0.50	D1

LABORATORY CONTROL SAMPLE & LCSD: 35189 35190

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	44	40	39	90	88	85-115	2.2	20	D1

SAMPLE DUPLICATE: 35191 Original: 155710003

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
RISK						
Methane	ug/l	1.6	1.6	2.6	20	D1

SAMPLE DUPLICATE: 35192 Original: 155710005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
RISK						
Methane	ug/l	0.31	0.22J	34	20	D1

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

QUALITY CONTROL PARAMETER QUALIFIERS

B	The analyte was detected in the associated blank.
D1	The duplicate relative percent difference (RPD) exceeded laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 15561 FRM. TAYLOR INSTRUMENTS

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
155610001	TW-04			AM23G	EDON/2521
155610002	OB-08			AM23G	EDON/2521
155610003	OB-06			AM23G	EDON/2521
155610004	OB-04			AM23G	EDON/2521
155610005	TW-17			AM23G	EDON/2521
155610006	W-5			AM23G	EDON/2521
155610003	OB-06			AM23G	EDON/2526
155610005	TW-17			AM23G	EDON/2526
155610001	TW-04			EPA RSK175	DISG/4593
155610003	OB-06			EPA RSK175	DISG/4593
155610005	TW-17			EPA RSK175	DISG/4593
155610006	W-5			EPA RSK175	DISG/4593
155610005	TW-17			EPA RSK175	DISG/4599
155610006	W-5			EPA RSK175	DISG/4599

Pace Analytical®
www.pacelabs.com
Microseeps

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Pittsburgh, PA 15238
412-826-5245

15561

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

006921

Section A Required Client Information:

Company:	Amec Foster Wheeler
Address:	9725 Cogdill Rd, Knoxville, TN 37932
Email To:	Joe.deatherage@amecfw.com
Phone:	865-218-4049 Fax: —
Requested Due Date/TAT:	STANDARD

Section B Required Project Information:

Report To:	Joe Deatherage
Copy To:	
Purchase Order No.:	C01260449 6
Project Name:	Former Taylor Instruments
Project Number:	303105 2006

Section C Invoice Information:

Attention:	Joe Deatherage
Company Name:	Amec Foster Wheeler
Address:	Same
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: Rochester NY

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	TSP	BAK	Zinc Acetate & NaOH	Other Na_2PO_4	Y/N	Analysis Test: VFAs	methane/ethene	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TW-04	WT	G	~~5-12-15~~	~~1115~~	5-13-15	1115		5						X		X		X	X		
2	OB-08	WT	G			5-12-15	1630		2						X				X			
3	OB-06	WT	G			5-12-15	1435		5						X		X		X	X		
4	OB-04	WT	G			5-12-15	1315		2						X				X			
5	TW-17	WT	G			5-13-15	1100		5						X		X		X	X		
6	W-5	WT	G			5-13-15	1555		5						X		X		X	X		
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Noel Gerland / Amec FW	5-15-15	0830	PACES	5.18.15	0830	4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Noel Gerland

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5-15-15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Cooler Receipt Form

Client Name: Amec Project: Frm Taylor Lab Work Order: 15561

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 8079 5291 8233

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 4°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by: LJ Date: 5.18.15

Project Manager Review: [signature] Date: 5/18/15

OCTOBER 2015
LABORATORY REPORTS AND
CHAIN-OF-CUSTODY FORMS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-90944-1
Client Project/Site: Former Taylor Instruments

For:
AMEC Foster Wheeler E & I, Inc
2030 Falling Waters Road
Ste 300
Knoxville, Tennessee 37922

Attn: Mr. Joe Deatherage

Authorized for release by:
11/13/2015 12:28:48 PM

Shali Brown, Project Manager II
(615)301-5031
shali.brown@testamericainc.com

Table of Contents

Sample Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-90944-1	TW-04	Water	10/27/15 10:40	10/30/15 10:45
490-90944-2	OB-04	Water	10/27/15 12:20	10/30/15 10:45
490-90944-3	OB-06	Water	10/27/15 15:15	10/30/15 10:45
490-90944-4	OB-08	Water	10/27/15 16:40	10/30/15 10:45
490-90944-5	BR-15	Water	10/28/15 11:55	10/30/15 10:45
490-90944-6	TW-20	Water	10/28/15 14:15	10/30/15 10:45
490-90944-7	TW-09	Water	10/28/15 15:23	10/30/15 10:45
490-90944-8	W-5	Water	10/28/15 17:00	10/30/15 10:45
490-90944-9	TW-17	Water	10/29/15 08:15	10/30/15 10:45
490-90944-10	BR-10	Water	10/29/15 09:40	10/30/15 10:45
490-90944-11	BR-04	Water	10/29/15 10:42	10/30/15 10:45
490-90944-12	BR-03	Water	10/29/15 12:20	10/30/15 10:45
490-90944-13	BR-02	Water	10/29/15 13:50	10/30/15 10:45
490-90944-14	BR-01	Water	10/29/15 15:07	10/30/15 10:45
490-90944-15	Dup-01	Water	10/28/15 01:01	10/30/15 10:45
490-90944-16	QAFB-01	Water	10/29/15 15:45	10/30/15 10:45
490-90944-17	QARB-01	Water	10/29/15 15:50	10/30/15 10:45
490-90944-18	QATB-01	Water	10/27/15 01:01	10/30/15 10:45

Job ID: 490-90944-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-90944-1

Comments
No additional comments.

Receipt
The samples were received on 10/30/2015 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA
Method(s) 8260C: The method blank for preparation batch 296120 contained 1,2,3-Trichlorobenzene above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8260C: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: BR-04 (490-90944-11).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: TW-04
Date Collected: 10/27/15 10:40
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 06:08	1
Styrene	ND		1.00		ug/L			11/06/15 06:08	1
Bromobenzene	ND		1.00		ug/L			11/06/15 06:08	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 06:08	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 06:08	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 06:08	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 06:08	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 06:08	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 06:08	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 06:08	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 06:08	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 06:08	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 06:08	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 06:08	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 06:08	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 06:08	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 06:08	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 06:08	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 06:08	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 06:08	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 06:08	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 06:08	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 06:08	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 06:08	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 06:08	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 06:08	1
2-Hexanone	ND		10.0		ug/L			11/06/15 06:08	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 06:08	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 06:08	1
Acetone	ND		25.0		ug/L			11/06/15 06:08	1
Benzene	ND		1.00		ug/L			11/06/15 06:08	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 06:08	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 06:08	1
Bromoform	ND		1.00		ug/L			11/06/15 06:08	1
Bromomethane	ND		1.00		ug/L			11/06/15 06:08	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 06:08	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 06:08	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 06:08	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 06:08	1
Chloroethane	ND		1.00		ug/L			11/06/15 06:08	1
Chloroform	ND		1.00		ug/L			11/06/15 06:08	1
Chloromethane	ND		1.00		ug/L			11/06/15 06:08	1
cis-1,2-Dichloroethene	**5.18**		1.00		ug/L			11/06/15 06:08	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 06:08	1
Dibromomethane	ND		1.00		ug/L			11/06/15 06:08	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 06:08	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 06:08	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 06:08	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 06:08	1

Client Sample ID: TW-04
Date Collected: 10/27/15 10:40
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 06:08	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 06:08	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 06:08	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 06:08	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 06:08	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 06:08	1
Toluene	ND		1.00		ug/L			11/06/15 06:08	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 06:08	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 06:08	1
Trichloroethene	ND		1.00		ug/L			11/06/15 06:08	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 06:08	1
Vinyl chloride	ND		1.00		ug/L			11/06/15 06:08	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 06:08	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 06:08	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/06/15 06:08*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/06/15 06:08*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*11/06/15 06:08*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/06/15 06:08*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**127**		1.00		mg/L			11/07/15 23:37	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: OB-04
Date Collected: 10/27/15 12:20
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 06:35	1
Styrene	ND		1.00		ug/L			11/06/15 06:35	1
Bromobenzene	ND		1.00		ug/L			11/06/15 06:35	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 06:35	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 06:35	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 06:35	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 06:35	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 06:35	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 06:35	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 06:35	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 06:35	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 06:35	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 06:35	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 06:35	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 06:35	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 06:35	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 06:35	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 06:35	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 06:35	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 06:35	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 06:35	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 06:35	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 06:35	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 06:35	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 06:35	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 06:35	1
2-Hexanone	ND		10.0		ug/L			11/06/15 06:35	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 06:35	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 06:35	1
Acetone	ND		25.0		ug/L			11/06/15 06:35	1
Benzene	ND		1.00		ug/L			11/06/15 06:35	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 06:35	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 06:35	1
Bromoform	ND		1.00		ug/L			11/06/15 06:35	1
Bromomethane	ND		1.00		ug/L			11/06/15 06:35	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 06:35	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 06:35	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 06:35	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 06:35	1
Chloroethane	**3.61**		1.00		ug/L			11/06/15 06:35	1
Chloroform	ND		1.00		ug/L			11/06/15 06:35	1
Chloromethane	ND		1.00		ug/L			11/06/15 06:35	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 06:35	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 06:35	1
Dibromomethane	ND		1.00		ug/L			11/06/15 06:35	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 06:35	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 06:35	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 06:35	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 06:35	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: OB-04
Date Collected: 10/27/15 12:20
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 06:35	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 06:35	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 06:35	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 06:35	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 06:35	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 06:35	1
Toluene	**1.28**		1.00		ug/L			11/06/15 06:35	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 06:35	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 06:35	1
Trichloroethene	**2.36**		1.00		ug/L			11/06/15 06:35	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 06:35	1
Vinyl chloride	**7.30**		1.00		ug/L			11/06/15 06:35	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 06:35	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 06:35	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/06/15 06:35*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/06/15 06:35*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*11/06/15 06:35*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/06/15 06:35*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: OB-06
Date Collected: 10/27/15 15:15
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 07:03	1
Styrene	ND		1.00		ug/L			11/06/15 07:03	1
Bromobenzene	ND		1.00		ug/L			11/06/15 07:03	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 07:03	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 07:03	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 07:03	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 07:03	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 07:03	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 07:03	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 07:03	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 07:03	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 07:03	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 07:03	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 07:03	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 07:03	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 07:03	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 07:03	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 07:03	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 07:03	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 07:03	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 07:03	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 07:03	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 07:03	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 07:03	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 07:03	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 07:03	1
2-Hexanone	ND		10.0		ug/L			11/06/15 07:03	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 07:03	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 07:03	1
Acetone	ND		25.0		ug/L			11/06/15 07:03	1
Benzene	ND		1.00		ug/L			11/06/15 07:03	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 07:03	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 07:03	1
Bromoform	ND		1.00		ug/L			11/06/15 07:03	1
Bromomethane	ND		1.00		ug/L			11/06/15 07:03	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 07:03	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 07:03	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 07:03	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 07:03	1
Chloroethane	ND		1.00		ug/L			11/06/15 07:03	1
Chloroform	ND		1.00		ug/L			11/06/15 07:03	1
Chloromethane	ND		1.00		ug/L			11/06/15 07:03	1
cis-1,2-Dichloroethene	**9.68**		1.00		ug/L			11/06/15 07:03	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 07:03	1
Dibromomethane	ND		1.00		ug/L			11/06/15 07:03	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 07:03	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 07:03	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 07:03	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 07:03	1

Client Sample ID: OB-06
Date Collected: 10/27/15 15:15
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 07:03	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 07:03	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 07:03	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 07:03	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 07:03	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 07:03	1
Toluene	ND		1.00		ug/L			11/06/15 07:03	1
trans-1,2-Dichloroethene	**1.09**		1.00		ug/L			11/06/15 07:03	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 07:03	1
Trichloroethene	**38.8**		1.00		ug/L			11/06/15 07:03	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 07:03	1
Vinyl chloride	**7.63**		1.00		ug/L			11/06/15 07:03	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 07:03	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 07:03	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 07:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*11/06/15 07:03*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/06/15 07:03*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/06/15 07:03*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/06/15 07:03*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**127**		1.00		mg/L			11/07/15 23:54	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: OB-08
Date Collected: 10/27/15 16:40
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 07:31	1
Styrene	ND		1.00		ug/L			11/06/15 07:31	1
Bromobenzene	ND		1.00		ug/L			11/06/15 07:31	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 07:31	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 07:31	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 07:31	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 07:31	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 07:31	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 07:31	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 07:31	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 07:31	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 07:31	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 07:31	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 07:31	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 07:31	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 07:31	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 07:31	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 07:31	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 07:31	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 07:31	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 07:31	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 07:31	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 07:31	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 07:31	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 07:31	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 07:31	1
2-Hexanone	ND		10.0		ug/L			11/06/15 07:31	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 07:31	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 07:31	1
Acetone	ND		25.0		ug/L			11/06/15 07:31	1
Benzene	ND		1.00		ug/L			11/06/15 07:31	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 07:31	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 07:31	1
Bromoform	ND		1.00		ug/L			11/06/15 07:31	1
Bromomethane	ND		1.00		ug/L			11/06/15 07:31	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 07:31	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 07:31	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 07:31	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 07:31	1
Chloroethane	ND		1.00		ug/L			11/06/15 07:31	1
Chloroform	ND		1.00		ug/L			11/06/15 07:31	1
Chloromethane	ND		1.00		ug/L			11/06/15 07:31	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 07:31	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 07:31	1
Dibromomethane	ND		1.00		ug/L			11/06/15 07:31	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 07:31	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 07:31	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 07:31	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 07:31	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: OB-08
Date Collected: 10/27/15 16:40
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 07:31	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 07:31	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 07:31	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 07:31	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 07:31	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 07:31	1
Toluene	ND		1.00		ug/L			11/06/15 07:31	1
trans-1,2-Dichloroethene	**5.47**		1.00		ug/L			11/06/15 07:31	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 07:31	1
Trichloroethene	ND		1.00		ug/L			11/06/15 07:31	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 07:31	1
Vinyl chloride	ND		1.00		ug/L			11/06/15 07:31	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 07:31	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 07:31	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 07:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/06/15 07:31*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/06/15 07:31*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*11/06/15 07:31*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/06/15 07:31*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: BR-15
Date Collected: 10/28/15 11:55
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 05:40	1
Styrene	ND		1.00		ug/L			11/06/15 05:40	1
Bromobenzene	ND		1.00		ug/L			11/06/15 05:40	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 05:40	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 05:40	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 05:40	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 05:40	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 05:40	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 05:40	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 05:40	1
1,2,3-Trichlorobenzene	ND	F2	1.00		ug/L			11/06/15 05:40	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 05:40	1
1,2,4-Trichlorobenzene	ND	F2	1.00		ug/L			11/06/15 05:40	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 05:40	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 05:40	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 05:40	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 05:40	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 05:40	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 05:40	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 05:40	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 05:40	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 05:40	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 05:40	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 05:40	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 05:40	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 05:40	1
2-Hexanone	ND		10.0		ug/L			11/06/15 05:40	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 05:40	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 05:40	1
Acetone	ND		25.0		ug/L			11/06/15 05:40	1
Benzene	ND		1.00		ug/L			11/06/15 05:40	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 05:40	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 05:40	1
Bromoform	ND		1.00		ug/L			11/06/15 05:40	1
Bromomethane	ND		1.00		ug/L			11/06/15 05:40	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 05:40	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 05:40	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 05:40	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 05:40	1
Chloroethane	ND		1.00		ug/L			11/06/15 05:40	1
Chloroform	ND		1.00		ug/L			11/06/15 05:40	1
Chloromethane	ND		1.00		ug/L			11/06/15 05:40	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 05:40	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 05:40	1
Dibromomethane	ND		1.00		ug/L			11/06/15 05:40	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 05:40	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 05:40	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 05:40	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 05:40	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: BR-15
Date Collected: 10/28/15 11:55
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND	F2	5.00		ug/L			11/06/15 05:40	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 05:40	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 05:40	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 05:40	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 05:40	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 05:40	1
Toluene	ND		1.00		ug/L			11/06/15 05:40	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 05:40	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 05:40	1
Trichloroethene	ND		1.00		ug/L			11/06/15 05:40	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 05:40	1
Vinyl chloride	**2.20**		1.00		ug/L			11/06/15 05:40	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 05:40	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 05:40	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 05:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/06/15 05:40*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/06/15 05:40*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/06/15 05:40*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/06/15 05:40*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: TW-20
Date Collected: 10/28/15 14:15
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 07:59	1
Styrene	ND		1.00		ug/L			11/06/15 07:59	1
Bromobenzene	ND		1.00		ug/L			11/06/15 07:59	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 07:59	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 07:59	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 07:59	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 07:59	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 07:59	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 07:59	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 07:59	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 07:59	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 07:59	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 07:59	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 07:59	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 07:59	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 07:59	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 07:59	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 07:59	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 07:59	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 07:59	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 07:59	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 07:59	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 07:59	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 07:59	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 07:59	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 07:59	1
2-Hexanone	ND		10.0		ug/L			11/06/15 07:59	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 07:59	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 07:59	1
Acetone	ND		25.0		ug/L			11/06/15 07:59	1
Benzene	ND		1.00		ug/L			11/06/15 07:59	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 07:59	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 07:59	1
Bromoform	ND		1.00		ug/L			11/06/15 07:59	1
Bromomethane	ND		1.00		ug/L			11/06/15 07:59	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 07:59	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 07:59	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 07:59	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 07:59	1
Chloroethane	ND		1.00		ug/L			11/06/15 07:59	1
Chloroform	ND		1.00		ug/L			11/06/15 07:59	1
Chloromethane	ND		1.00		ug/L			11/06/15 07:59	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 07:59	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 07:59	1
Dibromomethane	ND		1.00		ug/L			11/06/15 07:59	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 07:59	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 07:59	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 07:59	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 07:59	1

Client Sample ID: TW-20
Date Collected: 10/28/15 14:15
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 07:59	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 07:59	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 07:59	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 07:59	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 07:59	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 07:59	1
Toluene	ND		1.00		ug/L			11/06/15 07:59	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 07:59	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 07:59	1
Trichloroethene	**27.3**		1.00		ug/L			11/06/15 07:59	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 07:59	1
Vinyl chloride	ND		1.00		ug/L			11/06/15 07:59	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 07:59	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 07:59	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 07:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/06/15 07:59*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/06/15 07:59*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*11/06/15 07:59*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/06/15 07:59*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: TW-09
Date Collected: 10/28/15 15:23
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 08:27	1
Styrene	ND		1.00		ug/L			11/06/15 08:27	1
Bromobenzene	ND		1.00		ug/L			11/06/15 08:27	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 08:27	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 08:27	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 08:27	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 08:27	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 08:27	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 08:27	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 08:27	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 08:27	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 08:27	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 08:27	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 08:27	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 08:27	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 08:27	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 08:27	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 08:27	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 08:27	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 08:27	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 08:27	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 08:27	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 08:27	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 08:27	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 08:27	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 08:27	1
2-Hexanone	ND		10.0		ug/L			11/06/15 08:27	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 08:27	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 08:27	1
Acetone	ND		25.0		ug/L			11/06/15 08:27	1
Benzene	ND		1.00		ug/L			11/06/15 08:27	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 08:27	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 08:27	1
Bromoform	ND		1.00		ug/L			11/06/15 08:27	1
Bromomethane	ND		1.00		ug/L			11/06/15 08:27	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 08:27	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 08:27	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 08:27	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 08:27	1
Chloroethane	ND		1.00		ug/L			11/06/15 08:27	1
Chloroform	ND		1.00		ug/L			11/06/15 08:27	1
Chloromethane	ND		1.00		ug/L			11/06/15 08:27	1
cis-1,2-Dichloroethene	**38.9**		1.00		ug/L			11/06/15 08:27	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 08:27	1
Dibromomethane	ND		1.00		ug/L			11/06/15 08:27	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 08:27	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 08:27	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 08:27	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 08:27	1

Client Sample ID: TW-09
Date Collected: 10/28/15 15:23
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 08:27	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 08:27	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 08:27	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 08:27	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 08:27	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 08:27	1
Toluene	ND		1.00		ug/L			11/06/15 08:27	1
trans-1,2-Dichloroethene	**20.8**		1.00		ug/L			11/06/15 08:27	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 08:27	1
Trichloroethene	**8.18**		1.00		ug/L			11/06/15 08:27	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 08:27	1
Vinyl chloride	**21.0**		1.00		ug/L			11/06/15 08:27	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 08:27	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 08:27	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 08:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*11/06/15 08:27*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/06/15 08:27*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/06/15 08:27*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/06/15 08:27*	*1*

Client Sample ID: W-5
Date Collected: 10/28/15 17:00
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 08:55	1
Styrene	ND		1.00		ug/L			11/06/15 08:55	1
Bromobenzene	ND		1.00		ug/L			11/06/15 08:55	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 08:55	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 08:55	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 08:55	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 08:55	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 08:55	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 08:55	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 08:55	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 08:55	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 08:55	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 08:55	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 08:55	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 08:55	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 08:55	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 08:55	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 08:55	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 08:55	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 08:55	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 08:55	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 08:55	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 08:55	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 08:55	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 08:55	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 08:55	1
2-Hexanone	ND		10.0		ug/L			11/06/15 08:55	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 08:55	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 08:55	1
Acetone	ND		25.0		ug/L			11/06/15 08:55	1
Benzene	ND		1.00		ug/L			11/06/15 08:55	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 08:55	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 08:55	1
Bromoform	ND		1.00		ug/L			11/06/15 08:55	1
Bromomethane	ND		1.00		ug/L			11/06/15 08:55	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 08:55	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 08:55	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 08:55	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 08:55	1
Chloroethane	ND		1.00		ug/L			11/06/15 08:55	1
Chloroform	ND		1.00		ug/L			11/06/15 08:55	1
Chloromethane	ND		1.00		ug/L			11/06/15 08:55	1
cis-1,2-Dichloroethene	**51.5**		1.00		ug/L			11/06/15 08:55	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 08:55	1
Dibromomethane	ND		1.00		ug/L			11/06/15 08:55	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 08:55	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 08:55	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 08:55	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 08:55	1

Client Sample ID: W-5
Date Collected: 10/28/15 17:00
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 08:55	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 08:55	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 08:55	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 08:55	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 08:55	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 08:55	1
Toluene	ND		1.00		ug/L			11/06/15 08:55	1
trans-1,2-Dichloroethene	**8.51**		1.00		ug/L			11/06/15 08:55	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 08:55	1
Trichloroethene	**116**		1.00		ug/L			11/06/15 08:55	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 08:55	1
Vinyl chloride	**34.7**		1.00		ug/L			11/06/15 08:55	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 08:55	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 08:55	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 08:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*11/06/15 08:55*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/06/15 08:55*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*11/06/15 08:55*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/06/15 08:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**122**		1.00		mg/L			11/08/15 00:11	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: TW-17
Date Collected: 10/29/15 08:15
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 09:22	1
Styrene	ND		1.00		ug/L			11/06/15 09:22	1
Bromobenzene	ND		1.00		ug/L			11/06/15 09:22	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 09:22	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 09:22	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 09:22	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 09:22	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 09:22	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 09:22	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 09:22	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 09:22	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 09:22	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 09:22	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 09:22	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 09:22	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 09:22	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 09:22	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 09:22	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 09:22	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 09:22	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 09:22	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 09:22	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 09:22	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 09:22	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 09:22	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 09:22	1
2-Hexanone	ND		10.0		ug/L			11/06/15 09:22	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 09:22	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 09:22	1
Acetone	ND		25.0		ug/L			11/06/15 09:22	1
Benzene	ND		1.00		ug/L			11/06/15 09:22	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 09:22	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 09:22	1
Bromoform	ND		1.00		ug/L			11/06/15 09:22	1
Bromomethane	ND		1.00		ug/L			11/06/15 09:22	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 09:22	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 09:22	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 09:22	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 09:22	1
Chloroethane	ND		1.00		ug/L			11/06/15 09:22	1
Chloroform	ND		1.00		ug/L			11/06/15 09:22	1
Chloromethane	ND		1.00		ug/L			11/06/15 09:22	1
cis-1,2-Dichloroethene	**6.59**		1.00		ug/L			11/06/15 09:22	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 09:22	1
Dibromomethane	ND		1.00		ug/L			11/06/15 09:22	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 09:22	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 09:22	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 09:22	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 09:22	1

Client Sample ID: TW-17
Date Collected: 10/29/15 08:15
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 09:22	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 09:22	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 09:22	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 09:22	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 09:22	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 09:22	1
Toluene	ND		1.00		ug/L			11/06/15 09:22	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 09:22	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 09:22	1
Trichloroethene	**1.83**		1.00		ug/L			11/06/15 09:22	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 09:22	1
Vinyl chloride	**3.00**		1.00		ug/L			11/06/15 09:22	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 09:22	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 09:22	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 09:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/06/15 09:22*	*1*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/06/15 09:22*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*11/06/15 09:22*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/06/15 09:22*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**13.4**		1.00		mg/L			11/08/15 04:52	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: BR-10
Date Collected: 10/29/15 09:40
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 09:50	1
Styrene	ND		1.00		ug/L			11/06/15 09:50	1
Bromobenzene	ND		1.00		ug/L			11/06/15 09:50	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 09:50	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 09:50	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 09:50	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 09:50	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 09:50	1
1,1-Dichloroethene	**1.61**		1.00		ug/L			11/06/15 09:50	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 09:50	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 09:50	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 09:50	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 09:50	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 09:50	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 09:50	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 09:50	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 09:50	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 09:50	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 09:50	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 09:50	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 09:50	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 09:50	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 09:50	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 09:50	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 09:50	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 09:50	1
2-Hexanone	ND		10.0		ug/L			11/06/15 09:50	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 09:50	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 09:50	1
Acetone	ND		25.0		ug/L			11/06/15 09:50	1
Benzene	ND		1.00		ug/L			11/06/15 09:50	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 09:50	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 09:50	1
Bromoform	ND		1.00		ug/L			11/06/15 09:50	1
Bromomethane	ND		1.00		ug/L			11/06/15 09:50	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 09:50	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 09:50	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 09:50	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 09:50	1
Chloroethane	ND		1.00		ug/L			11/06/15 09:50	1
Chloroform	ND		1.00		ug/L			11/06/15 09:50	1
Chloromethane	ND		1.00		ug/L			11/06/15 09:50	1
cis-1,2-Dichloroethene	**343**		1.00		ug/L			11/06/15 09:50	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 09:50	1
Dibromomethane	ND		1.00		ug/L			11/06/15 09:50	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 09:50	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 09:50	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 09:50	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 09:50	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: BR-10
Date Collected: 10/29/15 09:40
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 09:50	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 09:50	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 09:50	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 09:50	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 09:50	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 09:50	1
Toluene	ND		1.00		ug/L			11/06/15 09:50	1
trans-1,2-Dichloroethene	**56.5**		1.00		ug/L			11/06/15 09:50	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 09:50	1
Trichloroethene	**201**		1.00		ug/L			11/06/15 09:50	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 09:50	1
Vinyl chloride	**3.04**		1.00		ug/L			11/06/15 09:50	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 09:50	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 09:50	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 09:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*11/06/15 09:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/06/15 09:50*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/06/15 09:50*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/06/15 09:50*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: BR-04
Date Collected: 10/29/15 10:42
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 10:18	1
Styrene	ND		1.00		ug/L			11/06/15 10:18	1
Bromobenzene	ND		1.00		ug/L			11/06/15 10:18	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 10:18	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 10:18	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 10:18	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 10:18	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 10:18	1
1,1-Dichloroethene	**7.78**		1.00		ug/L			11/06/15 10:18	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 10:18	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 10:18	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 10:18	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 10:18	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 10:18	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 10:18	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 10:18	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 10:18	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 10:18	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 10:18	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 10:18	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 10:18	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 10:18	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 10:18	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 10:18	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 10:18	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 10:18	1
2-Hexanone	ND		10.0		ug/L			11/06/15 10:18	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 10:18	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 10:18	1
Acetone	ND		25.0		ug/L			11/06/15 10:18	1
Benzene	ND		1.00		ug/L			11/06/15 10:18	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 10:18	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 10:18	1
Bromoform	ND		1.00		ug/L			11/06/15 10:18	1
Bromomethane	ND		1.00		ug/L			11/06/15 10:18	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 10:18	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 10:18	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 10:18	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 10:18	1
Chloroethane	ND		1.00		ug/L			11/06/15 10:18	1
Chloroform	ND		1.00		ug/L			11/06/15 10:18	1
Chloromethane	ND		1.00		ug/L			11/06/15 10:18	1
cis-1,2-Dichloroethene	**661**		10.0		ug/L			11/06/15 21:32	10
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 10:18	1
Dibromomethane	ND		1.00		ug/L			11/06/15 10:18	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 10:18	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 10:18	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 10:18	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 10:18	1

Client Sample ID: BR-04
Date Collected: 10/29/15 10:42
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 10:18	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 10:18	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 10:18	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 10:18	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 10:18	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 10:18	1
Toluene	ND		1.00		ug/L			11/06/15 10:18	1
trans-1,2-Dichloroethene	**64.9**		1.00		ug/L			11/06/15 10:18	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 10:18	1
Trichloroethene	**331**		10.0		ug/L			11/06/15 21:32	10
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 10:18	1
Vinyl chloride	**46.2**		1.00		ug/L			11/06/15 10:18	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 10:18	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 10:18	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 10:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*11/06/15 10:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*11/06/15 21:32*	*10*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/06/15 10:18*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/06/15 21:32*	*10*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*11/06/15 10:18*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*11/06/15 21:32*	*10*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/06/15 10:18*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/06/15 21:32*	*10*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: BR-03
Date Collected: 10/29/15 12:20
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 10:46	1
Styrene	ND		1.00		ug/L			11/06/15 10:46	1
Bromobenzene	ND		1.00		ug/L			11/06/15 10:46	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 10:46	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 10:46	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 10:46	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 10:46	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 10:46	1
1,1-Dichloroethene	**1.86**		1.00		ug/L			11/06/15 10:46	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 10:46	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 10:46	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 10:46	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 10:46	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 10:46	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 10:46	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 10:46	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 10:46	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 10:46	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 10:46	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 10:46	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 10:46	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 10:46	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 10:46	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 10:46	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 10:46	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 10:46	1
2-Hexanone	ND		10.0		ug/L			11/06/15 10:46	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 10:46	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 10:46	1
Acetone	ND		25.0		ug/L			11/06/15 10:46	1
Benzene	ND		1.00		ug/L			11/06/15 10:46	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 10:46	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 10:46	1
Bromoform	ND		1.00		ug/L			11/06/15 10:46	1
Bromomethane	ND		1.00		ug/L			11/06/15 10:46	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 10:46	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 10:46	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 10:46	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 10:46	1
Chloroethane	ND		1.00		ug/L			11/06/15 10:46	1
Chloroform	ND		1.00		ug/L			11/06/15 10:46	1
Chloromethane	ND		1.00		ug/L			11/06/15 10:46	1
cis-1,2-Dichloroethene	**76.4**		1.00		ug/L			11/06/15 10:46	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 10:46	1
Dibromomethane	ND		1.00		ug/L			11/06/15 10:46	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 10:46	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 10:46	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 10:46	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 10:46	1

Client Sample ID: BR-03
Date Collected: 10/29/15 12:20
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 10:46	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 10:46	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 10:46	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 10:46	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 10:46	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 10:46	1
Toluene	ND		1.00		ug/L			11/06/15 10:46	1
trans-1,2-Dichloroethene	**1.77**		1.00		ug/L			11/06/15 10:46	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 10:46	1
Trichloroethene	**360**		10.0		ug/L			11/06/15 22:00	10
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 10:46	1
Vinyl chloride	ND		1.00		ug/L			11/06/15 10:46	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 10:46	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 10:46	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*11/06/15 10:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*11/06/15 22:00*	*10*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/06/15 10:46*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/06/15 22:00*	*10*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*11/06/15 10:46*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*11/06/15 22:00*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/06/15 10:46*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/06/15 22:00*	*10*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: BR-02
Date Collected: 10/29/15 13:50
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 21:04	1
Styrene	ND		1.00		ug/L			11/06/15 21:04	1
Bromobenzene	ND		1.00		ug/L			11/06/15 21:04	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 21:04	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 21:04	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 21:04	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 21:04	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 21:04	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 21:04	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 21:04	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 11:14	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 21:04	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 21:04	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 21:04	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 21:04	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 21:04	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 21:04	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 21:04	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 21:04	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 21:04	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 21:04	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 21:04	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 21:04	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 21:04	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 21:04	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 21:04	1
2-Hexanone	ND		10.0		ug/L			11/06/15 21:04	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 21:04	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 21:04	1
Acetone	ND		25.0		ug/L			11/06/15 21:04	1
Benzene	ND		1.00		ug/L			11/06/15 21:04	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 21:04	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 21:04	1
Bromoform	ND		1.00		ug/L			11/06/15 21:04	1
Bromomethane	ND		1.00		ug/L			11/06/15 21:04	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 21:04	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 21:04	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 21:04	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 21:04	1
Chloroethane	ND		1.00		ug/L			11/06/15 21:04	1
Chloroform	ND		1.00		ug/L			11/06/15 21:04	1
Chloromethane	ND		1.00		ug/L			11/06/15 21:04	1
cis-1,2-Dichloroethene	**21.7**		1.00		ug/L			11/06/15 21:04	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 21:04	1
Dibromomethane	ND		1.00		ug/L			11/06/15 21:04	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 21:04	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 21:04	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 21:04	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 21:04	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: BR-02
Date Collected: 10/29/15 13:50
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 11:14	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 21:04	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 21:04	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 21:04	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 21:04	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 21:04	1
Toluene	ND		1.00		ug/L			11/06/15 21:04	1
trans-1,2-Dichloroethene	**1.54**		1.00		ug/L			11/06/15 21:04	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 21:04	1
Trichloroethene	**16.6**		1.00		ug/L			11/06/15 21:04	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 21:04	1
Vinyl chloride	ND		1.00		ug/L			11/06/15 21:04	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 21:04	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 21:04	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/06/15 21:04*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/06/15 21:04*	*1*
Dibromofluoromethane (Surr)	*89*		*70 - 130*		*11/06/15 21:04*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*11/06/15 21:04*	*1*

Client Sample ID: BR-01
Date Collected: 10/29/15 15:07
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 11:42	1
Styrene	ND		1.00		ug/L			11/06/15 11:42	1
Bromobenzene	ND		1.00		ug/L			11/06/15 11:42	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 11:42	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 11:42	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 11:42	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 11:42	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 11:42	1
1,1-Dichloroethene	**4.03**		1.00		ug/L			11/06/15 11:42	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 11:42	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 11:42	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 11:42	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 11:42	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 11:42	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 11:42	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 11:42	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 11:42	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 11:42	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 11:42	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 11:42	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 11:42	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 11:42	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 11:42	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 11:42	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 11:42	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 11:42	1
2-Hexanone	ND		10.0		ug/L			11/06/15 11:42	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 11:42	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 11:42	1
Acetone	ND		25.0		ug/L			11/06/15 11:42	1
Benzene	ND		1.00		ug/L			11/06/15 11:42	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 11:42	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 11:42	1
Bromoform	ND		1.00		ug/L			11/06/15 11:42	1
Bromomethane	ND		1.00		ug/L			11/06/15 11:42	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 11:42	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 11:42	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 11:42	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 11:42	1
Chloroethane	ND		1.00		ug/L			11/06/15 11:42	1
Chloroform	ND		1.00		ug/L			11/06/15 11:42	1
Chloromethane	ND		1.00		ug/L			11/06/15 11:42	1
cis-1,2-Dichloroethene	**906**		10.0		ug/L			11/06/15 22:28	10
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 11:42	1
Dibromomethane	ND		1.00		ug/L			11/06/15 11:42	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 11:42	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 11:42	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 11:42	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 11:42	1

Client Sample ID: BR-01
Date Collected: 10/29/15 15:07
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 11:42	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 11:42	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 11:42	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 11:42	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 11:42	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 11:42	1
Toluene	ND		1.00		ug/L			11/06/15 11:42	1
trans-1,2-Dichloroethene	**39.8**		1.00		ug/L			11/06/15 11:42	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 11:42	1
Trichloroethene	**31.8**		1.00		ug/L			11/06/15 11:42	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 11:42	1
Vinyl chloride	**244**		1.00		ug/L			11/06/15 11:42	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 11:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 11:42	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 11:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*11/06/15 11:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/06/15 22:28*	*10*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/06/15 11:42*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/06/15 22:28*	*10*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/06/15 11:42*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*11/06/15 22:28*	*10*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/06/15 11:42*	*1*
Toluene-d8 (Surr)	*104*		*70 - 130*		*11/06/15 22:28*	*10*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: Dup-01
Date Collected: 10/28/15 01:01
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 12:10	1
Styrene	ND		1.00		ug/L			11/06/15 12:10	1
Bromobenzene	ND		1.00		ug/L			11/06/15 12:10	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 12:10	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 12:10	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 12:10	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 12:10	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 12:10	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 12:10	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 12:10	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 12:10	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 12:10	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 12:10	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 12:10	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 12:10	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 12:10	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 12:10	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 12:10	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 12:10	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 12:10	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 12:10	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 12:10	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 12:10	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 12:10	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 12:10	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 12:10	1
2-Hexanone	ND		10.0		ug/L			11/06/15 12:10	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 12:10	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 12:10	1
Acetone	ND		25.0		ug/L			11/06/15 12:10	1
Benzene	ND		1.00		ug/L			11/06/15 12:10	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 12:10	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 12:10	1
Bromoform	ND		1.00		ug/L			11/06/15 12:10	1
Bromomethane	ND		1.00		ug/L			11/06/15 12:10	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 12:10	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 12:10	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 12:10	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 12:10	1
Chloroethane	ND		1.00		ug/L			11/06/15 12:10	1
Chloroform	ND		1.00		ug/L			11/06/15 12:10	1
Chloromethane	ND		1.00		ug/L			11/06/15 12:10	1
cis-1,2-Dichloroethene	**50.6**		1.00		ug/L			11/06/15 12:10	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 12:10	1
Dibromomethane	ND		1.00		ug/L			11/06/15 12:10	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 12:10	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 12:10	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 12:10	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 12:10	1

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: Dup-01
Date Collected: 10/28/15 01:01
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 12:10	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 12:10	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 12:10	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 12:10	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 12:10	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 12:10	1
Toluene	ND		1.00		ug/L			11/06/15 12:10	1
trans-1,2-Dichloroethene	**8.01**		1.00		ug/L			11/06/15 12:10	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 12:10	1
Trichloroethene	**122**		1.00		ug/L			11/06/15 12:10	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 12:10	1
Vinyl chloride	**31.5**		1.00		ug/L			11/06/15 12:10	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 12:10	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 12:10	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*11/06/15 12:10*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/06/15 12:10*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*11/06/15 12:10*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/06/15 12:10*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: QAFB-01
Date Collected: 10/29/15 15:45
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-16
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 12:38	1
Styrene	ND		1.00		ug/L			11/06/15 12:38	1
Bromobenzene	ND		1.00		ug/L			11/06/15 12:38	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 12:38	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 12:38	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 12:38	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 12:38	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 12:38	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 12:38	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 12:38	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 12:38	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 12:38	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 12:38	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 12:38	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 12:38	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 12:38	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 12:38	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 12:38	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 12:38	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 12:38	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 12:38	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 12:38	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 12:38	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 12:38	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 12:38	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 12:38	1
2-Hexanone	ND		10.0		ug/L			11/06/15 12:38	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 12:38	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 12:38	1
Acetone	ND		25.0		ug/L			11/06/15 12:38	1
Benzene	ND		1.00		ug/L			11/06/15 12:38	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 12:38	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 12:38	1
Bromoform	ND		1.00		ug/L			11/06/15 12:38	1
Bromomethane	ND		1.00		ug/L			11/06/15 12:38	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 12:38	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 12:38	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 12:38	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 12:38	1
Chloroethane	ND		1.00		ug/L			11/06/15 12:38	1
Chloroform	ND		1.00		ug/L			11/06/15 12:38	1
Chloromethane	ND		1.00		ug/L			11/06/15 12:38	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 12:38	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 12:38	1
Dibromomethane	ND		1.00		ug/L			11/06/15 12:38	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 12:38	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 12:38	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 12:38	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 12:38	1

Client Sample ID: QAFB-01
Date Collected: 10/29/15 15:45
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-16
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 12:38	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 12:38	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 12:38	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 12:38	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 12:38	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 12:38	1
Toluene	ND		1.00		ug/L			11/06/15 12:38	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 12:38	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 12:38	1
Trichloroethene	ND		1.00		ug/L			11/06/15 12:38	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 12:38	1
Vinyl chloride	ND		1.00		ug/L			11/06/15 12:38	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 12:38	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 12:38	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*11/06/15 12:38*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/06/15 12:38*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*11/06/15 12:38*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/06/15 12:38*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: QARB-01
Date Collected: 10/29/15 15:50
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-17
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 13:05	1
Styrene	ND		1.00		ug/L			11/06/15 13:05	1
Bromobenzene	ND		1.00		ug/L			11/06/15 13:05	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 13:05	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 13:05	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 13:05	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 13:05	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 13:05	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 13:05	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 13:05	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 13:05	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 13:05	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 13:05	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 13:05	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 13:05	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 13:05	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 13:05	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 13:05	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 13:05	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 13:05	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 13:05	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 13:05	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 13:05	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 13:05	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 13:05	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 13:05	1
2-Hexanone	ND		10.0		ug/L			11/06/15 13:05	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 13:05	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 13:05	1
Acetone	ND		25.0		ug/L			11/06/15 13:05	1
Benzene	ND		1.00		ug/L			11/06/15 13:05	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 13:05	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 13:05	1
Bromoform	ND		1.00		ug/L			11/06/15 13:05	1
Bromomethane	ND		1.00		ug/L			11/06/15 13:05	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 13:05	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 13:05	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 13:05	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 13:05	1
Chloroethane	ND		1.00		ug/L			11/06/15 13:05	1
Chloroform	ND		1.00		ug/L			11/06/15 13:05	1
Chloromethane	ND		1.00		ug/L			11/06/15 13:05	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 13:05	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 13:05	1
Dibromomethane	ND		1.00		ug/L			11/06/15 13:05	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 13:05	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 13:05	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 13:05	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 13:05	1

Client Sample ID: QARB-01
Date Collected: 10/29/15 15:50
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-17
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 13:05	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 13:05	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 13:05	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 13:05	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 13:05	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 13:05	1
Toluene	ND		1.00		ug/L			11/06/15 13:05	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 13:05	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 13:05	1
Trichloroethene	ND		1.00		ug/L			11/06/15 13:05	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 13:05	1
Vinyl chloride	ND		1.00		ug/L			11/06/15 13:05	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 13:05	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 13:05	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*		*11/06/15 13:05*	*1*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*11/06/15 13:05*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/06/15 13:05*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/06/15 13:05*	*1*

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: QATB-01
Date Collected: 10/27/15 01:01
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-18
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 05:12	1
Styrene	ND		1.00		ug/L			11/06/15 05:12	1
Bromobenzene	ND		1.00		ug/L			11/06/15 05:12	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 05:12	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 05:12	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 05:12	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 05:12	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 05:12	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 05:12	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 05:12	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 05:12	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 05:12	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 05:12	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 05:12	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 05:12	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 05:12	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 05:12	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 05:12	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 05:12	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 05:12	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 05:12	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 05:12	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 05:12	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 05:12	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 05:12	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 05:12	1
2-Hexanone	ND		10.0		ug/L			11/06/15 05:12	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 05:12	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 05:12	1
Acetone	ND		25.0		ug/L			11/06/15 05:12	1
Benzene	ND		1.00		ug/L			11/06/15 05:12	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 05:12	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 05:12	1
Bromoform	ND		1.00		ug/L			11/06/15 05:12	1
Bromomethane	ND		1.00		ug/L			11/06/15 05:12	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 05:12	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 05:12	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 05:12	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 05:12	1
Chloroethane	ND		1.00		ug/L			11/06/15 05:12	1
Chloroform	ND		1.00		ug/L			11/06/15 05:12	1
Chloromethane	ND		1.00		ug/L			11/06/15 05:12	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 05:12	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 05:12	1
Dibromomethane	ND		1.00		ug/L			11/06/15 05:12	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 05:12	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 05:12	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 05:12	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 05:12	1

Client Sample ID: QATB-01
Date Collected: 10/27/15 01:01
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-18
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.00		ug/L			11/06/15 05:12	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 05:12	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 05:12	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 05:12	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 05:12	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 05:12	1
Toluene	ND		1.00		ug/L			11/06/15 05:12	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 05:12	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 05:12	1
Trichloroethene	ND		1.00		ug/L			11/06/15 05:12	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 05:12	1
Vinyl chloride	ND		1.00		ug/L			11/06/15 05:12	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 05:12	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 05:12	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*11/06/15 05:12*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/06/15 05:12*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/06/15 05:12*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/06/15 05:12*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 490-296120/7
Matrix: Water
Analysis Batch: 296120

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 04:44	1
Styrene	ND		1.00		ug/L			11/06/15 04:44	1
Bromobenzene	ND		1.00		ug/L			11/06/15 04:44	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 04:44	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 04:44	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 04:44	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 04:44	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 04:44	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 04:44	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 04:44	1
1,2,3-Trichlorobenzene	1.040		1.00		ug/L			11/06/15 04:44	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 04:44	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 04:44	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 04:44	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 04:44	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 04:44	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 04:44	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 04:44	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 04:44	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 04:44	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 04:44	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 04:44	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 04:44	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 04:44	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 04:44	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 04:44	1
2-Hexanone	ND		10.0		ug/L			11/06/15 04:44	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 04:44	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 04:44	1
Acetone	ND		25.0		ug/L			11/06/15 04:44	1
Benzene	ND		1.00		ug/L			11/06/15 04:44	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 04:44	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 04:44	1
Bromoform	ND		1.00		ug/L			11/06/15 04:44	1
Bromomethane	ND		1.00		ug/L			11/06/15 04:44	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 04:44	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 04:44	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 04:44	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 04:44	1
Chloroethane	ND		1.00		ug/L			11/06/15 04:44	1
Chloroform	ND		1.00		ug/L			11/06/15 04:44	1
Chloromethane	ND		1.00		ug/L			11/06/15 04:44	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 04:44	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 04:44	1
Dibromomethane	ND		1.00		ug/L			11/06/15 04:44	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 04:44	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 04:44	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 04:44	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 490-296120/7
Matrix: Water
Analysis Batch: 296120

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.00		ug/L			11/06/15 04:44	1
Naphthalene	ND		5.00		ug/L			11/06/15 04:44	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 04:44	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 04:44	1
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 04:44	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 04:44	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 04:44	1
Toluene	ND		1.00		ug/L			11/06/15 04:44	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 04:44	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 04:44	1
Trichloroethene	ND		1.00		ug/L			11/06/15 04:44	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 04:44	1
Vinyl chloride	ND		1.00		ug/L			11/06/15 04:44	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 04:44	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 04:44	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 04:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*11/06/15 04:44*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*11/06/15 04:44*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/06/15 04:44*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/06/15 04:44*	*1*

Lab Sample ID: LCS 490-296120/3
Matrix: Water
Analysis Batch: 296120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	48.57		ug/L		97	80 - 130
Styrene	50.0	52.47		ug/L		105	80 - 127
Bromobenzene	50.0	50.17		ug/L		100	68 - 130
1,1,1,2-Tetrachloroethane	50.0	52.03		ug/L		104	74 - 135
1,1,1-Trichloroethane	50.0	51.43		ug/L		103	78 - 135
1,1,2,2-Tetrachloroethane	50.0	50.09		ug/L		100	69 - 131
1,1,2-Trichloroethane	50.0	49.62		ug/L		99	80 - 124
1,1-Dichloroethane	50.0	44.65		ug/L		89	78 - 125
1,1-Dichloroethene	50.0	46.49		ug/L		93	79 - 124
1,1-Dichloropropene	50.0	45.56		ug/L		91	80 - 122
1,2,3-Trichlorobenzene	50.0	57.54		ug/L		115	62 - 133
1,2,3-Trichloropropane	50.0	52.97		ug/L		106	70 - 131
1,2,4-Trichlorobenzene	50.0	52.68		ug/L		105	63 - 133
1,2,4-Trimethylbenzene	50.0	51.48		ug/L		103	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	48.21		ug/L		96	54 - 125
1,2-Dibromoethane (EDB)	50.0	52.49		ug/L		105	80 - 129
1,2-Dichlorobenzene	50.0	52.07		ug/L		104	80 - 121
1,2-Dichloroethane	50.0	51.29		ug/L		103	77 - 121
1,2-Dichloropropane	50.0	45.63		ug/L		91	75 - 120
1,3,5-Trimethylbenzene	50.0	52.48		ug/L		105	77 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 490-296120/3
Matrix: Water
Analysis Batch: 296120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	50.0	51.99		ug/L		104	80 - 122
1,3-Dichloropropane	50.0	49.45		ug/L		99	80 - 125
1,4-Dichlorobenzene	50.0	51.53		ug/L		103	80 - 120
2,2-Dichloropropane	50.0	40.48		ug/L		81	43 - 161
2-Butanone (MEK)	250	228.7		ug/L		91	62 - 133
2-Chlorotoluene	50.0	51.23		ug/L		102	75 - 126
2-Hexanone	250	242.6		ug/L		97	60 - 142
4-Chlorotoluene	50.0	51.54		ug/L		103	75 - 130
4-Methyl-2-pentanone (MIBK)	250	243.3		ug/L		97	60 - 137
Acetone	250	223.8		ug/L		90	54 - 145
Benzene	50.0	46.60		ug/L		93	80 - 121
Bromochloromethane	50.0	49.56		ug/L		99	78 - 129
Bromodichloromethane	50.0	50.61		ug/L		101	75 - 129
Bromoform	50.0	54.17		ug/L		108	46 - 145
Bromomethane	50.0	47.14		ug/L		94	41 - 150
Carbon disulfide	50.0	45.55		ug/L		91	77 - 126
Carbon tetrachloride	50.0	48.85		ug/L		98	64 - 147
Chlorobenzene	50.0	51.12		ug/L		102	80 - 120
Chlorodibromomethane	50.0	53.64		ug/L		107	69 - 133
Chloroethane	50.0	43.56		ug/L		87	72 - 120
Chloroform	50.0	47.68		ug/L		95	73 - 129
Chloromethane	50.0	43.53		ug/L		87	12 - 150
cis-1,2-Dichloroethene	50.0	44.16		ug/L		88	76 - 125
cis-1,3-Dichloropropene	50.0	48.73		ug/L		97	74 - 140
Dibromomethane	50.0	51.94		ug/L		104	71 - 125
Dichlorodifluoromethane	50.0	38.80		ug/L		78	37 - 127
Hexachlorobutadiene	50.0	53.10		ug/L		106	49 - 146
Isopropylbenzene	50.0	50.29		ug/L		101	80 - 141
Methylene Chloride	50.0	46.61		ug/L		93	79 - 123
Naphthalene	50.0	55.86		ug/L		112	62 - 138
N-Propylbenzene	50.0	50.79		ug/L		102	75 - 129
p-Isopropyltoluene	50.0	51.71		ug/L		103	75 - 128
sec-Butylbenzene	50.0	52.59		ug/L		105	76 - 128
tert-Butylbenzene	50.0	50.90		ug/L		102	76 - 126
Tetrachloroethene	50.0	52.10		ug/L		104	80 - 126
Toluene	50.0	45.62		ug/L		91	80 - 126
trans-1,2-Dichloroethene	50.0	43.61		ug/L		87	79 - 126
trans-1,3-Dichloropropene	50.0	48.68		ug/L		97	63 - 134
Trichloroethene	50.0	47.21		ug/L		94	80 - 123
Trichlorofluoromethane	50.0	47.44		ug/L		95	65 - 124
Vinyl chloride	50.0	44.22		ug/L		88	68 - 120
Xylenes, Total	100	101.1		ug/L		101	80 - 132
Methyl tert-butyl ether	50.0	46.16		ug/L		92	72 - 133
n-Butylbenzene	50.0	49.89		ug/L		100	68 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 490-296120/3
Matrix: Water
Analysis Batch: 296120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 490-296120/4
Matrix: Water
Analysis Batch: 296120

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			50.0	48.74		ug/L		97	80 - 130	0	15
Styrene			50.0	52.37		ug/L		105	80 - 127	0	24
Bromobenzene			50.0	49.70		ug/L		99	68 - 130	1	20
1,1,1,2-Tetrachloroethane			50.0	51.67		ug/L		103	74 - 135	1	16
1,1,1-Trichloroethane			50.0	49.75		ug/L		100	78 - 135	3	17
1,1,2,2-Tetrachloroethane			50.0	50.04		ug/L		100	69 - 131	0	20
1,1,2-Trichloroethane			50.0	49.34		ug/L		99	80 - 124	1	15
1,1-Dichloroethane			50.0	44.46		ug/L		89	78 - 125	0	17
1,1-Dichloroethene			50.0	44.69		ug/L		89	79 - 124	4	17
1,1-Dichloropropene			50.0	46.00		ug/L		92	80 - 122	1	17
1,2,3-Trichlorobenzene			50.0	65.10		ug/L		130	62 - 133	12	25
1,2,3-Trichloropropane			50.0	54.03		ug/L		108	70 - 131	2	19
1,2,4-Trichlorobenzene			50.0	57.95		ug/L		116	63 - 133	10	19
1,2,4-Trimethylbenzene			50.0	51.33		ug/L		103	77 - 126	0	16
1,2-Dibromo-3-Chloropropane			50.0	49.38		ug/L		99	54 - 125	2	24
1,2-Dibromoethane (EDB)			50.0	52.92		ug/L		106	80 - 129	1	15
1,2-Dichlorobenzene			50.0	53.05		ug/L		106	80 - 121	2	15
1,2-Dichloroethane			50.0	52.15		ug/L		104	77 - 121	2	17
1,2-Dichloropropane			50.0	44.94		ug/L		90	75 - 120	2	17
1,3,5-Trimethylbenzene			50.0	51.60		ug/L		103	77 - 127	2	17
1,3-Dichlorobenzene			50.0	51.99		ug/L		104	80 - 122	0	15
1,3-Dichloropropane			50.0	49.40		ug/L		99	80 - 125	0	14
1,4-Dichlorobenzene			50.0	52.10		ug/L		104	80 - 120	1	15
2,2-Dichloropropane			50.0	39.56		ug/L		79	43 - 161	2	18
2-Butanone (MEK)			250	234.4		ug/L		94	62 - 133	2	19
2-Chlorotoluene			50.0	50.92		ug/L		102	75 - 126	1	17
2-Hexanone			250	246.9		ug/L		99	60 - 142	2	15
4-Chlorotoluene			50.0	50.95		ug/L		102	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)			250	249.6		ug/L		100	60 - 137	3	17
Acetone			250	227.4		ug/L		91	54 - 145	2	21
Benzene			50.0	47.48		ug/L		95	80 - 121	2	17
Bromochloromethane			50.0	50.06		ug/L		100	78 - 129	1	17
Bromodichloromethane			50.0	48.11		ug/L		96	75 - 129	5	18
Bromoform			50.0	54.55		ug/L		109	46 - 145	1	16
Bromomethane			50.0	48.95		ug/L		98	41 - 150	4	50
Carbon disulfide			50.0	44.79		ug/L		90	77 - 126	2	21
Carbon tetrachloride			50.0	48.11		ug/L		96	64 - 147	2	19
Chlorobenzene			50.0	50.93		ug/L		102	80 - 120	0	14
Chlorodibromomethane			50.0	52.77		ug/L		106	69 - 133	2	15
Chloroethane			50.0	43.22		ug/L		86	72 - 120	1	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 490-296120/4
Matrix: Water
Analysis Batch: 296120

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform			50.0	47.85		ug/L		96	73 - 129	0	18
Chloromethane			50.0	42.73		ug/L		85	12 - 150	2	31
cis-1,2-Dichloroethene			50.0	44.04		ug/L		88	76 - 125	0	17
cis-1,3-Dichloropropene			50.0	47.89		ug/L		96	74 - 140	2	15
Dibromomethane			50.0	51.00		ug/L		102	71 - 125	2	16
Dichlorodifluoromethane			50.0	37.95		ug/L		76	37 - 127	2	18
Hexachlorobutadiene			50.0	56.45		ug/L		113	49 - 146	6	23
Isopropylbenzene			50.0	50.02		ug/L		100	80 - 141	1	16
Methylene Chloride			50.0	46.52		ug/L		93	79 - 123	0	17
Naphthalene			50.0	63.07		ug/L		126	62 - 138	12	26
N-Propylbenzene			50.0	50.25		ug/L		100	75 - 129	1	17
p-Isopropyltoluene			50.0	51.46		ug/L		103	75 - 128	0	16
sec-Butylbenzene			50.0	51.77		ug/L		104	76 - 128	2	16
tert-Butylbenzene			50.0	50.36		ug/L		101	76 - 126	1	16
Tetrachloroethene			50.0	51.29		ug/L		103	80 - 126	2	16
Toluene			50.0	45.04		ug/L		90	80 - 126	1	15
trans-1,2-Dichloroethene			50.0	43.03		ug/L		86	79 - 126	1	16
trans-1,3-Dichloropropene			50.0	48.81		ug/L		98	63 - 134	0	14
Trichloroethene			50.0	44.41		ug/L		89	80 - 123	6	17
Trichlorofluoromethane			50.0	46.12		ug/L		92	65 - 124	3	18
Vinyl chloride			50.0	43.51		ug/L		87	68 - 120	2	17
Xylenes, Total			100	101.2		ug/L		101	80 - 132	0	15
Methyl tert-butyl ether			50.0	46.62		ug/L		93	72 - 133	1	16
n-Butylbenzene			50.0	50.09		ug/L		100	68 - 132	0	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: 490-90944-5 MS
Matrix: Water
Analysis Batch: 296120

Client Sample ID: BR-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		50.0	51.21		ug/L		102	79 - 139
Styrene	ND		50.0	54.18		ug/L		108	61 - 148
Bromobenzene	ND		50.0	51.09		ug/L		102	60 - 138
1,1,1,2-Tetrachloroethane	ND		50.0	54.02		ug/L		108	73 - 141
1,1,1-Trichloroethane	ND		50.0	55.78		ug/L		112	76 - 149
1,1,2,2-Tetrachloroethane	ND		50.0	50.58		ug/L		101	56 - 143
1,1,2-Trichloroethane	ND		50.0	50.31		ug/L		101	74 - 134
1,1-Dichloroethane	ND		50.0	48.43		ug/L		97	71 - 139
1,1-Dichloroethene	ND		50.0	51.27		ug/L		103	70 - 142
1,1-Dichloropropene	ND		50.0	51.22		ug/L		102	76 - 139
1,2,3-Trichlorobenzene	ND	F2	50.0	33.07		ug/L		66	55 - 138
1,2,3-Trichloropropane	ND		50.0	52.20		ug/L		104	53 - 144

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 490-90944-5 MS
Matrix: Water
Analysis Batch: 296120

Client Sample ID: BR-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND	F2	50.0	40.93		ug/L		82	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	53.58		ug/L		107	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	44.06		ug/L		88	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	52.85		ug/L		106	75 - 137
1,2-Dichlorobenzene	ND		50.0	52.52		ug/L		105	79 - 128
1,2-Dichloroethane	ND		50.0	53.14		ug/L		106	64 - 136
1,2-Dichloropropane	ND		50.0	49.73		ug/L		99	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	54.99		ug/L		110	69 - 139
1,3-Dichlorobenzene	ND		50.0	53.49		ug/L		107	77 - 131
1,3-Dichloropropane	ND		50.0	49.65		ug/L		99	72 - 134
1,4-Dichlorobenzene	ND		50.0	52.74		ug/L		105	78 - 126
2,2-Dichloropropane	ND		50.0	43.11		ug/L		86	37 - 175
2-Butanone (MEK)	ND		250	220.4		ug/L		88	50 - 138
2-Chlorotoluene	ND		50.0	54.00		ug/L		108	67 - 138
2-Hexanone	ND		250	252.8		ug/L		101	50 - 150
4-Chlorotoluene	ND		50.0	53.17		ug/L		106	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	253.4		ug/L		101	50 - 147
Acetone	ND		250	215.2		ug/L		86	45 - 141
Benzene	ND		50.0	50.18		ug/L		100	75 - 133
Bromochloromethane	ND		50.0	51.25		ug/L		103	67 - 139
Bromodichloromethane	ND		50.0	53.33		ug/L		107	70 - 140
Bromoform	ND		50.0	54.46		ug/L		109	42 - 147
Bromomethane	ND		50.0	47.66		ug/L		95	16 - 163
Carbon disulfide	ND		50.0	49.72		ug/L		99	48 - 152
Carbon tetrachloride	ND		50.0	56.53		ug/L		113	62 - 164
Chlorobenzene	ND		50.0	52.67		ug/L		105	80 - 129
Chlorodibromomethane	ND		50.0	54.53		ug/L		109	66 - 140
Chloroethane	ND		50.0	47.50		ug/L		95	58 - 137
Chloroform	ND		50.0	50.01		ug/L		100	66 - 138
Chloromethane	ND		50.0	47.70		ug/L		95	10 - 169
cis-1,2-Dichloroethene	ND		50.0	45.69		ug/L		91	68 - 138
cis-1,3-Dichloropropene	ND		50.0	50.60		ug/L		101	71 - 141
Dibromomethane	ND		50.0	53.04		ug/L		106	58 - 140
Dichlorodifluoromethane	ND		50.0	42.47		ug/L		85	40 - 127
Hexachlorobutadiene	ND		50.0	48.01		ug/L		96	45 - 155
Isopropylbenzene	ND		50.0	52.94		ug/L		106	80 - 153
Methylene Chloride	ND		50.0	48.51		ug/L		97	64 - 139
Naphthalene	ND	F2	50.0	36.95		ug/L		74	55 - 140
N-Propylbenzene	ND		50.0	54.37		ug/L		109	69 - 142
p-Isopropyltoluene	ND		50.0	54.25		ug/L		109	71 - 137
sec-Butylbenzene	ND		50.0	55.49		ug/L		111	73 - 138
tert-Butylbenzene	ND		50.0	54.11		ug/L		108	70 - 138
Tetrachloroethene	ND		50.0	56.69		ug/L		113	72 - 145
Toluene	ND		50.0	48.33		ug/L		97	75 - 136
trans-1,2-Dichloroethene	ND		50.0	47.67		ug/L		95	66 - 143
trans-1,3-Dichloropropene	ND		50.0	49.99		ug/L		100	59 - 135
Trichloroethene	ND		50.0	52.11		ug/L		104	73 - 144
Trichlorofluoromethane	ND		50.0	54.00		ug/L		108	58 - 139

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 490-90944-5 MS
Matrix: Water
Analysis Batch: 296120

Client Sample ID: BR-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	2.20		50.0	50.40		ug/L		96	56 - 129
Xylenes, Total	ND		100	105.7		ug/L		106	74 - 141
Methyl tert-butyl ether	ND		50.0	47.58		ug/L		95	66 - 141
n-Butylbenzene	ND		50.0	52.85		ug/L		106	66 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-90944-5 MSD
Matrix: Water
Analysis Batch: 296120

Client Sample ID: BR-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	ND		50.0	52.51		ug/L		105	79 - 139	2	15
Styrene	ND		50.0	54.36		ug/L		109	61 - 148	0	24
Bromobenzene	ND		50.0	53.13		ug/L		106	60 - 138	4	20
1,1,1,2-Tetrachloroethane	ND		50.0	54.19		ug/L		108	73 - 141	0	16
1,1,1-Trichloroethane	ND		50.0	59.10		ug/L		118	76 - 149	6	17
1,1,2,2-Tetrachloroethane	ND		50.0	50.39		ug/L		101	56 - 143	0	20
1,1,2-Trichloroethane	ND		50.0	50.27		ug/L		101	74 - 134	0	15
1,1-Dichloroethane	ND		50.0	46.98		ug/L		94	71 - 139	3	17
1,1-Dichloroethene	ND		50.0	52.47		ug/L		105	70 - 142	2	17
1,1-Dichloropropene	ND		50.0	53.32		ug/L		107	76 - 139	4	17
1,2,3-Trichlorobenzene	ND	F2	50.0	58.52	F2	ug/L		117	55 - 138	56	25
1,2,3-Trichloropropane	ND		50.0	52.54		ug/L		105	53 - 144	1	19
1,2,4-Trichlorobenzene	ND	F2	50.0	54.51	F2	ug/L		109	60 - 136	28	19
1,2,4-Trimethylbenzene	ND		50.0	55.74		ug/L		111	69 - 136	4	16
1,2-Dibromo-3-Chloropropane	ND		50.0	46.68		ug/L		93	52 - 126	6	24
1,2-Dibromoethane (EDB)	ND		50.0	52.43		ug/L		105	75 - 137	1	15
1,2-Dichlorobenzene	ND		50.0	53.94		ug/L		108	79 - 128	3	15
1,2-Dichloroethane	ND		50.0	52.32		ug/L		105	64 - 136	2	17
1,2-Dichloropropane	ND		50.0	49.47		ug/L		99	67 - 131	1	17
1,3,5-Trimethylbenzene	ND		50.0	57.88		ug/L		116	69 - 139	5	17
1,3-Dichlorobenzene	ND		50.0	55.42		ug/L		111	77 - 131	4	15
1,3-Dichloropropane	ND		50.0	50.26		ug/L		101	72 - 134	1	14
1,4-Dichlorobenzene	ND		50.0	54.91		ug/L		110	78 - 126	4	15
2,2-Dichloropropane	ND		50.0	45.44		ug/L		91	37 - 175	5	18
2-Butanone (MEK)	ND		250	209.9		ug/L		84	50 - 138	5	19
2-Chlorotoluene	ND		50.0	56.53		ug/L		113	67 - 138	5	17
2-Hexanone	ND		250	235.4		ug/L		94	50 - 150	7	15
4-Chlorotoluene	ND		50.0	55.86		ug/L		112	69 - 138	5	18
4-Methyl-2-pentanone (MIBK)	ND		250	238.4		ug/L		95	50 - 147	6	17
Acetone	ND		250	212.4		ug/L		85	45 - 141	1	21
Benzene	ND		50.0	51.30		ug/L		103	75 - 133	2	17
Bromochloromethane	ND		50.0	50.82		ug/L		102	67 - 139	1	17

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 490-90944-5 MSD
Matrix: Water
Analysis Batch: 296120

Client Sample ID: BR-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	ND		50.0	53.61		ug/L		107	70 - 140	1	18
Bromoform	ND		50.0	53.29		ug/L		107	42 - 147	2	16
Bromomethane	ND		50.0	50.80		ug/L		102	16 - 163	6	50
Carbon disulfide	ND		50.0	50.43		ug/L		101	48 - 152	1	21
Carbon tetrachloride	ND		50.0	58.17		ug/L		116	62 - 164	3	19
Chlorobenzene	ND		50.0	54.01		ug/L		108	80 - 129	3	14
Chlorodibromomethane	ND		50.0	54.87		ug/L		110	66 - 140	1	15
Chloroethane	ND		50.0	48.14		ug/L		96	58 - 137	1	20
Chloroform	ND		50.0	50.20		ug/L		100	66 - 138	0	18
Chloromethane	ND		50.0	48.80		ug/L		98	10 - 169	2	31
cis-1,2-Dichloroethene	ND		50.0	46.23		ug/L		92	68 - 138	1	17
cis-1,3-Dichloropropene	ND		50.0	52.10		ug/L		104	71 - 141	3	15
Dibromomethane	ND		50.0	51.50		ug/L		103	58 - 140	3	16
Dichlorodifluoromethane	ND		50.0	42.50		ug/L		85	40 - 127	0	18
Hexachlorobutadiene	ND		50.0	58.34		ug/L		117	45 - 155	19	23
Isopropylbenzene	ND		50.0	54.05		ug/L		108	80 - 153	2	16
Methylene Chloride	ND		50.0	49.50		ug/L		99	64 - 139	2	17
Naphthalene	ND	F2	50.0	56.80	F2	ug/L		114	55 - 140	42	26
N-Propylbenzene	ND		50.0	57.22		ug/L		114	69 - 142	5	17
p-Isopropyltoluene	ND		50.0	57.93		ug/L		116	71 - 137	7	16
sec-Butylbenzene	ND		50.0	58.78		ug/L		118	73 - 138	6	16
tert-Butylbenzene	ND		50.0	57.20		ug/L		114	70 - 138	6	16
Tetrachloroethene	ND		50.0	59.62		ug/L		119	72 - 145	5	16
Toluene	ND		50.0	49.61		ug/L		99	75 - 136	3	15
trans-1,2-Dichloroethene	ND		50.0	48.60		ug/L		96	66 - 143	2	16
trans-1,3-Dichloropropene	ND		50.0	50.49		ug/L		101	59 - 135	1	14
Trichloroethene	ND		50.0	53.73		ug/L		107	73 - 144	3	17
Trichlorofluoromethane	ND		50.0	54.45		ug/L		109	58 - 139	1	18
Vinyl chloride	2.20		50.0	50.95		ug/L		97	56 - 129	1	17
Xylenes, Total	ND		100	107.4		ug/L		107	74 - 141	2	15
Methyl tert-butyl ether	ND		50.0	46.10		ug/L		92	66 - 141	3	16
n-Butylbenzene	ND		50.0	56.00		ug/L		112	66 - 141	6	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 490-296312/9
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.00		ug/L			11/06/15 17:49	1
Styrene	ND		1.00		ug/L			11/06/15 17:49	1
Bromobenzene	ND		1.00		ug/L			11/06/15 17:49	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 17:49	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 490-296312/9
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00		ug/L			11/06/15 17:49	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/06/15 17:49	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/06/15 17:49	1
1,1-Dichloroethane	ND		1.00		ug/L			11/06/15 17:49	1
1,1-Dichloroethene	ND		1.00		ug/L			11/06/15 17:49	1
1,1-Dichloropropene	ND		1.00		ug/L			11/06/15 17:49	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/06/15 17:49	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/06/15 17:49	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/06/15 17:49	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/06/15 17:49	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/06/15 17:49	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/06/15 17:49	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/06/15 17:49	1
1,2-Dichloroethane	ND		1.00		ug/L			11/06/15 17:49	1
1,2-Dichloropropane	ND		1.00		ug/L			11/06/15 17:49	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/06/15 17:49	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/06/15 17:49	1
1,3-Dichloropropane	ND		1.00		ug/L			11/06/15 17:49	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/06/15 17:49	1
2,2-Dichloropropane	ND		1.00		ug/L			11/06/15 17:49	1
2-Butanone (MEK)	ND		50.0		ug/L			11/06/15 17:49	1
2-Chlorotoluene	ND		1.00		ug/L			11/06/15 17:49	1
2-Hexanone	ND		10.0		ug/L			11/06/15 17:49	1
4-Chlorotoluene	ND		1.00		ug/L			11/06/15 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/06/15 17:49	1
Acetone	ND		25.0		ug/L			11/06/15 17:49	1
Benzene	ND		1.00		ug/L			11/06/15 17:49	1
Bromochloromethane	ND		1.00		ug/L			11/06/15 17:49	1
Bromodichloromethane	ND		1.00		ug/L			11/06/15 17:49	1
Bromoform	ND		1.00		ug/L			11/06/15 17:49	1
Bromomethane	ND		1.00		ug/L			11/06/15 17:49	1
Carbon disulfide	ND		1.00		ug/L			11/06/15 17:49	1
Carbon tetrachloride	ND		1.00		ug/L			11/06/15 17:49	1
Chlorobenzene	ND		1.00		ug/L			11/06/15 17:49	1
Chlorodibromomethane	ND		1.00		ug/L			11/06/15 17:49	1
Chloroethane	ND		1.00		ug/L			11/06/15 17:49	1
Chloroform	ND		1.00		ug/L			11/06/15 17:49	1
Chloromethane	ND		1.00		ug/L			11/06/15 17:49	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 17:49	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 17:49	1
Dibromomethane	ND		1.00		ug/L			11/06/15 17:49	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/06/15 17:49	1
Hexachlorobutadiene	ND		2.00		ug/L			11/06/15 17:49	1
Isopropylbenzene	ND		1.00		ug/L			11/06/15 17:49	1
Methylene Chloride	ND		5.00		ug/L			11/06/15 17:49	1
Naphthalene	ND		5.00		ug/L			11/06/15 17:49	1
N-Propylbenzene	ND		1.00		ug/L			11/06/15 17:49	1
p-Isopropyltoluene	ND		1.00		ug/L			11/06/15 17:49	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 490-296312/9
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.00		ug/L			11/06/15 17:49	1
tert-Butylbenzene	ND		1.00		ug/L			11/06/15 17:49	1
Tetrachloroethene	ND		1.00		ug/L			11/06/15 17:49	1
Toluene	ND		1.00		ug/L			11/06/15 17:49	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/06/15 17:49	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/06/15 17:49	1
Trichloroethene	ND		1.00		ug/L			11/06/15 17:49	1
Trichlorofluoromethane	ND		1.00		ug/L			11/06/15 17:49	1
Vinyl chloride	ND		1.00		ug/L			11/06/15 17:49	1
Xylenes, Total	ND		3.00		ug/L			11/06/15 17:49	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/06/15 17:49	1
n-Butylbenzene	ND		1.00		ug/L			11/06/15 17:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*11/06/15 17:49*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*11/06/15 17:49*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*11/06/15 17:49*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/06/15 17:49*	*1*

Lab Sample ID: LCS 490-296312/3
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	50.0	52.83		ug/L		106	80 - 130
Styrene	50.0	56.05		ug/L		112	80 - 127
Bromobenzene	50.0	52.83		ug/L		106	68 - 130
1,1,1,2-Tetrachloroethane	50.0	56.27		ug/L		113	74 - 135
1,1,1-Trichloroethane	50.0	56.59		ug/L		113	78 - 135
1,1,2,2-Tetrachloroethane	50.0	52.86		ug/L		106	69 - 131
1,1,2-Trichloroethane	50.0	52.91		ug/L		106	80 - 124
1,1-Dichloroethane	50.0	49.98		ug/L		100	78 - 125
1,1-Dichloroethene	50.0	50.46		ug/L		101	79 - 124
1,1-Dichloropropene	50.0	52.21		ug/L		104	80 - 122
1,2,3-Trichlorobenzene	50.0	60.87		ug/L		122	62 - 133
1,2,3-Trichloropropane	50.0	56.02		ug/L		112	70 - 131
1,2,4-Trichlorobenzene	50.0	56.60		ug/L		113	63 - 133
1,2,4-Trimethylbenzene	50.0	53.93		ug/L		108	77 - 126
1,2-Dibromo-3-Chloropropane	50.0	50.57		ug/L		101	54 - 125
1,2-Dibromoethane (EDB)	50.0	57.16		ug/L		114	80 - 129
1,2-Dichlorobenzene	50.0	54.42		ug/L		109	80 - 121
1,2-Dichloroethane	50.0	57.51		ug/L		115	77 - 121
1,2-Dichloropropane	50.0	50.50		ug/L		101	75 - 120
1,3,5-Trimethylbenzene	50.0	54.46		ug/L		109	77 - 127
1,3-Dichlorobenzene	50.0	54.83		ug/L		110	80 - 122
1,3-Dichloropropane	50.0	52.49		ug/L		105	80 - 125
1,4-Dichlorobenzene	50.0	54.86		ug/L		110	80 - 120
2,2-Dichloropropane	50.0	49.28		ug/L		99	43 - 161

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 490-296312/3
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	250	265.2		ug/L		106	62 - 133
2-Chlorotoluene	50.0	52.90		ug/L		106	75 - 126
2-Hexanone	250	265.0		ug/L		106	60 - 142
4-Chlorotoluene	50.0	53.35		ug/L		107	75 - 130
4-Methyl-2-pentanone (MIBK)	250	267.0		ug/L		107	60 - 137
Acetone	250	261.3		ug/L		105	54 - 145
Benzene	50.0	54.10		ug/L		108	80 - 121
Bromochloromethane	50.0	54.99		ug/L		110	78 - 129
Bromodichloromethane	50.0	54.53		ug/L		109	75 - 129
Bromoform	50.0	59.68		ug/L		119	46 - 145
Bromomethane	50.0	51.26		ug/L		103	41 - 150
Carbon disulfide	50.0	50.30		ug/L		101	77 - 126
Carbon tetrachloride	50.0	55.49		ug/L		111	64 - 147
Chlorobenzene	50.0	55.47		ug/L		111	80 - 120
Chlorodibromomethane	50.0	57.16		ug/L		114	69 - 133
Chloroethane	50.0	50.71		ug/L		101	72 - 120
Chloroform	50.0	52.61		ug/L		105	73 - 129
Chloromethane	50.0	46.46		ug/L		93	12 - 150
cis-1,2-Dichloroethene	50.0	49.40		ug/L		99	76 - 125
cis-1,3-Dichloropropene	50.0	52.11		ug/L		104	74 - 140
Dibromomethane	50.0	56.15		ug/L		112	71 - 125
Dichlorodifluoromethane	50.0	47.12		ug/L		94	37 - 127
Hexachlorobutadiene	50.0	55.78		ug/L		112	49 - 146
Isopropylbenzene	50.0	54.68		ug/L		109	80 - 141
Methylene Chloride	50.0	52.15		ug/L		104	79 - 123
Naphthalene	50.0	59.59		ug/L		119	62 - 138
N-Propylbenzene	50.0	53.57		ug/L		107	75 - 129
p-Isopropyltoluene	50.0	54.73		ug/L		109	75 - 128
sec-Butylbenzene	50.0	55.14		ug/L		110	76 - 128
tert-Butylbenzene	50.0	53.97		ug/L		108	76 - 126
Tetrachloroethene	50.0	56.95		ug/L		114	80 - 126
Toluene	50.0	48.64		ug/L		97	80 - 126
trans-1,2-Dichloroethene	50.0	48.30		ug/L		97	79 - 126
trans-1,3-Dichloropropene	50.0	52.52		ug/L		105	63 - 134
Trichloroethene	50.0	52.35		ug/L		105	80 - 123
Trichlorofluoromethane	50.0	54.11		ug/L		108	65 - 124
Vinyl chloride	50.0	50.37		ug/L		101	68 - 120
Xylenes, Total	100	108.6		ug/L		109	80 - 132
Methyl tert-butyl ether	50.0	51.65		ug/L		103	72 - 133
n-Butylbenzene	50.0	53.62		ug/L		107	68 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 130*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 490-296312/4
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	50.0	50.67		ug/L		101	80 - 130	4	15
Styrene	50.0	54.24		ug/L		108	80 - 127	3	24
Bromobenzene	50.0	51.65		ug/L		103	68 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	53.50		ug/L		107	74 - 135	5	16
1,1,1-Trichloroethane	50.0	53.24		ug/L		106	78 - 135	6	17
1,1,2,2-Tetrachloroethane	50.0	53.09		ug/L		106	69 - 131	0	20
1,1,2-Trichloroethane	50.0	51.28		ug/L		103	80 - 124	3	15
1,1-Dichloroethane	50.0	47.62		ug/L		95	78 - 125	5	17
1,1-Dichloroethene	50.0	48.23		ug/L		96	79 - 124	5	17
1,1-Dichloropropene	50.0	50.59		ug/L		101	80 - 122	3	17
1,2,3-Trichlorobenzene	50.0	63.77		ug/L		128	62 - 133	5	25
1,2,3-Trichloropropane	50.0	54.26		ug/L		109	70 - 131	3	19
1,2,4-Trichlorobenzene	50.0	58.09		ug/L		116	63 - 133	3	19
1,2,4-Trimethylbenzene	50.0	53.83		ug/L		108	77 - 126	0	16
1,2-Dibromo-3-Chloropropane	50.0	51.02		ug/L		102	54 - 125	1	24
1,2-Dibromoethane (EDB)	50.0	53.99		ug/L		108	80 - 129	6	15
1,2-Dichlorobenzene	50.0	54.12		ug/L		108	80 - 121	1	15
1,2-Dichloroethane	50.0	53.28		ug/L		107	77 - 121	8	17
1,2-Dichloropropane	50.0	47.73		ug/L		95	75 - 120	6	17
1,3,5-Trimethylbenzene	50.0	54.42		ug/L		109	77 - 127	0	17
1,3-Dichlorobenzene	50.0	53.97		ug/L		108	80 - 122	2	15
1,3-Dichloropropane	50.0	51.65		ug/L		103	80 - 125	2	14
1,4-Dichlorobenzene	50.0	53.87		ug/L		108	80 - 120	2	15
2,2-Dichloropropane	50.0	45.85		ug/L		92	43 - 161	7	18
2-Butanone (MEK)	250	251.4		ug/L		101	62 - 133	5	19
2-Chlorotoluene	50.0	53.56		ug/L		107	75 - 126	1	17
2-Hexanone	250	254.9		ug/L		102	60 - 142	4	15
4-Chlorotoluene	50.0	52.95		ug/L		106	75 - 130	1	18
4-Methyl-2-pentanone (MIBK)	250	256.4		ug/L		103	60 - 137	4	17
Acetone	250	230.2		ug/L		92	54 - 145	13	21
Benzene	50.0	48.55		ug/L		97	80 - 121	11	17
Bromochloromethane	50.0	51.65		ug/L		103	78 - 129	6	17
Bromodichloromethane	50.0	52.13		ug/L		104	75 - 129	5	18
Bromoform	50.0	57.75		ug/L		115	46 - 145	3	16
Bromomethane	50.0	50.31		ug/L		101	41 - 150	2	50
Carbon disulfide	50.0	47.72		ug/L		95	77 - 126	5	21
Carbon tetrachloride	50.0	52.13		ug/L		104	64 - 147	6	19
Chlorobenzene	50.0	53.41		ug/L		107	80 - 120	4	14
Chlorodibromomethane	50.0	54.46		ug/L		109	69 - 133	5	15
Chloroethane	50.0	46.88		ug/L		94	72 - 120	8	20
Chloroform	50.0	49.56		ug/L		99	73 - 129	6	18
Chloromethane	50.0	44.63		ug/L		89	12 - 150	4	31
cis-1,2-Dichloroethene	50.0	46.30		ug/L		93	76 - 125	6	17
cis-1,3-Dichloropropene	50.0	51.40		ug/L		103	74 - 140	1	15
Dibromomethane	50.0	53.53		ug/L		107	71 - 125	5	16
Dichlorodifluoromethane	50.0	41.62		ug/L		83	37 - 127	12	18
Hexachlorobutadiene	50.0	58.50		ug/L		117	49 - 146	5	23
Isopropylbenzene	50.0	52.53		ug/L		105	80 - 141	4	16

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 490-296312/4
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			50.0	49.15		ug/L		98	79 - 123	6	17
Naphthalene			50.0	61.19		ug/L		122	62 - 138	3	26
N-Propylbenzene			50.0	53.49		ug/L		107	75 - 129	0	17
p-Isopropyltoluene			50.0	54.39		ug/L		109	75 - 128	1	16
sec-Butylbenzene			50.0	54.84		ug/L		110	76 - 128	1	16
tert-Butylbenzene			50.0	53.22		ug/L		106	76 - 126	1	16
Tetrachloroethene			50.0	55.64		ug/L		111	80 - 126	2	16
Toluene			50.0	47.23		ug/L		94	80 - 126	3	15
trans-1,2-Dichloroethene			50.0	46.16		ug/L		92	79 - 126	5	16
trans-1,3-Dichloropropene			50.0	51.51		ug/L		103	63 - 134	2	14
Trichloroethene			50.0	49.88		ug/L		100	80 - 123	5	17
Trichlorofluoromethane			50.0	51.69		ug/L		103	65 - 124	5	18
Vinyl chloride			50.0	46.80		ug/L		94	68 - 120	7	17
Xylenes, Total			100	105.4		ug/L		105	80 - 132	3	15
Methyl tert-butyl ether			50.0	48.10		ug/L		96	72 - 133	7	16
n-Butylbenzene			50.0	53.42		ug/L		107	68 - 132	0	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: 490-91289-B-1 MS
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		50.0	47.17		ug/L		94	79 - 139
Styrene	ND		50.0	49.09		ug/L		98	61 - 148
Bromobenzene	ND		50.0	46.33		ug/L		93	60 - 138
1,1,1,2-Tetrachloroethane	ND		50.0	48.58		ug/L		97	73 - 141
1,1,1-Trichloroethane	ND		50.0	51.18		ug/L		102	76 - 149
1,1,2,2-Tetrachloroethane	ND		50.0	42.60		ug/L		85	56 - 143
1,1,2-Trichloroethane	ND		50.0	44.16		ug/L		88	74 - 134
1,1-Dichloroethane	ND		50.0	45.42		ug/L		91	71 - 139
1,1-Dichloroethene	ND		50.0	48.92		ug/L		98	70 - 142
1,1-Dichloropropene	ND		50.0	48.55		ug/L		97	76 - 139
1,2,3-Trichlorobenzene	ND	F1 F2	50.0	27.04	F1	ug/L		54	55 - 138
1,2,3-Trichloropropane	ND		50.0	46.13		ug/L		92	53 - 144
1,2,4-Trichlorobenzene	ND	F2	50.0	35.16		ug/L		70	60 - 136
1,2,4-Trimethylbenzene	ND		50.0	48.76		ug/L		98	69 - 136
1,2-Dibromo-3-Chloropropane	ND		50.0	36.25		ug/L		72	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	46.71		ug/L		93	75 - 137
1,2-Dichlorobenzene	ND		50.0	46.50		ug/L		93	79 - 128
1,2-Dichloroethane	ND		50.0	47.73		ug/L		95	64 - 136
1,2-Dichloropropane	ND		50.0	44.98		ug/L		90	67 - 131
1,3,5-Trimethylbenzene	ND		50.0	48.86		ug/L		98	69 - 139

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 490-91289-B-1 MS
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	ND		50.0	48.16		ug/L		96	77 - 131
1,3-Dichloropropane	ND		50.0	44.67		ug/L		89	72 - 134
1,4-Dichlorobenzene	ND		50.0	48.08		ug/L		96	78 - 126
2,2-Dichloropropane	ND		50.0	44.41		ug/L		89	37 - 175
2-Butanone (MEK)	ND	F2	250	180.8		ug/L		72	50 - 138
2-Chlorotoluene	ND		50.0	48.80		ug/L		98	67 - 138
2-Hexanone	ND		250	199.1		ug/L		80	50 - 150
4-Chlorotoluene	ND		50.0	48.40		ug/L		97	69 - 138
4-Methyl-2-pentanone (MIBK)	ND		250	204.8		ug/L		82	50 - 147
Acetone	ND		250	194.5		ug/L		78	45 - 141
Benzene	ND		50.0	46.71		ug/L		93	75 - 133
Bromochloromethane	ND		50.0	46.58		ug/L		93	67 - 139
Bromodichloromethane	ND		50.0	47.47		ug/L		95	70 - 140
Bromoform	ND		50.0	47.58		ug/L		95	42 - 147
Bromomethane	ND		50.0	45.14		ug/L		90	16 - 163
Carbon disulfide	ND		50.0	49.86		ug/L		100	48 - 152
Carbon tetrachloride	ND		50.0	52.78		ug/L		106	62 - 164
Chlorobenzene	ND		50.0	48.71		ug/L		97	80 - 129
Chlorodibromomethane	ND		50.0	47.38		ug/L		95	66 - 140
Chloroethane	ND		50.0	45.25		ug/L		91	58 - 137
Chloroform	ND		50.0	46.15		ug/L		92	66 - 138
Chloromethane	ND		50.0	45.19		ug/L		90	10 - 169
cis-1,2-Dichloroethene	ND		50.0	43.05		ug/L		86	68 - 138
cis-1,3-Dichloropropene	ND		50.0	47.13		ug/L		94	71 - 141
Dibromomethane	ND		50.0	46.85		ug/L		94	58 - 140
Dichlorodifluoromethane	ND		50.0	47.22		ug/L		94	40 - 127
Hexachlorobutadiene	ND		50.0	47.19		ug/L		94	45 - 155
Isopropylbenzene	ND		50.0	47.42		ug/L		95	80 - 153
Methylene Chloride	ND		50.0	44.65		ug/L		89	64 - 139
Naphthalene	ND	F2	50.0	29.42		ug/L		59	55 - 140
N-Propylbenzene	ND		50.0	48.51		ug/L		97	69 - 142
p-Isopropyltoluene	ND		50.0	49.26		ug/L		99	71 - 137
sec-Butylbenzene	ND		50.0	49.39		ug/L		99	73 - 138
tert-Butylbenzene	ND		50.0	47.76		ug/L		96	70 - 138
Tetrachloroethene	ND		50.0	53.03		ug/L		106	72 - 145
Toluene	ND		50.0	44.73		ug/L		89	75 - 136
trans-1,2-Dichloroethene	ND		50.0	45.15		ug/L		90	66 - 143
trans-1,3-Dichloropropene	ND		50.0	44.97		ug/L		90	59 - 135
Trichloroethene	ND		50.0	51.11		ug/L		102	73 - 144
Trichlorofluoromethane	ND		50.0	51.62		ug/L		103	58 - 139
Vinyl chloride	ND		50.0	48.26		ug/L		97	56 - 129
Xylenes, Total	ND		100	96.51		ug/L		97	74 - 141
Methyl tert-butyl ether	ND		50.0	39.95		ug/L		80	66 - 141
n-Butylbenzene	ND		50.0	48.84		ug/L		98	66 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 490-91289-B-1 MS
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-91289-C-1 MSD
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	ND		50.0	51.51		ug/L		103	79 - 139	9	15
Styrene	ND		50.0	53.67		ug/L		107	61 - 148	9	24
Bromobenzene	ND		50.0	50.14		ug/L		100	60 - 138	8	20
1,1,1,2-Tetrachloroethane	ND		50.0	53.20		ug/L		106	73 - 141	9	16
1,1,1-Trichloroethane	ND		50.0	55.43		ug/L		111	76 - 149	8	17
1,1,2,2-Tetrachloroethane	ND		50.0	49.36		ug/L		99	56 - 143	15	20
1,1,2-Trichloroethane	ND		50.0	48.96		ug/L		98	74 - 134	10	15
1,1-Dichloroethane	ND		50.0	49.80		ug/L		100	71 - 139	9	17
1,1-Dichloroethene	ND		50.0	53.50		ug/L		107	70 - 142	9	17
1,1-Dichloropropene	ND		50.0	51.27		ug/L		103	76 - 139	5	17
1,2,3-Trichlorobenzene	ND	F1 F2	50.0	55.80	F2	ug/L		112	55 - 138	69	25
1,2,3-Trichloropropane	ND		50.0	50.74		ug/L		101	53 - 144	10	19
1,2,4-Trichlorobenzene	ND	F2	50.0	52.64	F2	ug/L		105	60 - 136	40	19
1,2,4-Trimethylbenzene	ND		50.0	52.47		ug/L		105	69 - 136	7	16
1,2-Dibromo-3-Chloropropane	ND		50.0	44.41		ug/L		89	52 - 126	20	24
1,2-Dibromoethane (EDB)	ND		50.0	51.40		ug/L		103	75 - 137	10	15
1,2-Dichlorobenzene	ND		50.0	51.22		ug/L		102	79 - 128	10	15
1,2-Dichloroethane	ND		50.0	53.15		ug/L		106	64 - 136	11	17
1,2-Dichloropropane	ND		50.0	48.51		ug/L		97	67 - 131	8	17
1,3,5-Trimethylbenzene	ND		50.0	53.48		ug/L		107	69 - 139	9	17
1,3-Dichlorobenzene	ND		50.0	52.12		ug/L		104	77 - 131	8	15
1,3-Dichloropropane	ND		50.0	49.05		ug/L		98	72 - 134	9	14
1,4-Dichlorobenzene	ND		50.0	51.94		ug/L		104	78 - 126	8	15
2,2-Dichloropropane	ND		50.0	51.30		ug/L		103	37 - 175	14	18
2-Butanone (MEK)	ND	F2	250	222.7	F2	ug/L		89	50 - 138	21	19
2-Chlorotoluene	ND		50.0	52.01		ug/L		104	67 - 138	6	17
2-Hexanone	ND		250	230.8		ug/L		92	50 - 150	15	15
4-Chlorotoluene	ND		50.0	51.83		ug/L		104	69 - 138	7	18
4-Methyl-2-pentanone (MIBK)	ND		250	230.9		ug/L		92	50 - 147	12	17
Acetone	ND		250	208.5		ug/L		83	45 - 141	7	21
Benzene	ND		50.0	50.60		ug/L		101	75 - 133	8	17
Bromochloromethane	ND		50.0	51.70		ug/L		103	67 - 139	10	17
Bromodichloromethane	ND		50.0	52.17		ug/L		104	70 - 140	9	18
Bromoform	ND		50.0	53.69		ug/L		107	42 - 147	12	16
Bromomethane	ND		50.0	53.26		ug/L		107	16 - 163	17	50
Carbon disulfide	ND		50.0	53.41		ug/L		107	48 - 152	7	21
Carbon tetrachloride	ND		50.0	55.97		ug/L		112	62 - 164	6	19
Chlorobenzene	ND		50.0	52.64		ug/L		105	80 - 129	8	14
Chlorodibromomethane	ND		50.0	53.52		ug/L		107	66 - 140	12	15
Chloroethane	ND		50.0	50.27		ug/L		101	58 - 137	11	20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 490-91289-C-1 MSD
Matrix: Water
Analysis Batch: 296312

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		50.0	51.28		ug/L		103	66 - 138	11	18
Chloromethane	ND		50.0	51.44		ug/L		103	10 - 169	13	31
cis-1,2-Dichloroethene	ND		50.0	48.71		ug/L		97	68 - 138	12	17
cis-1,3-Dichloropropene	ND		50.0	51.25		ug/L		102	71 - 141	8	15
Dibromomethane	ND		50.0	53.02		ug/L		106	58 - 140	12	16
Dichlorodifluoromethane	ND		50.0	48.61		ug/L		97	40 - 127	3	18
Hexachlorobutadiene	ND		50.0	59.70		ug/L		119	45 - 155	23	23
Isopropylbenzene	ND		50.0	52.15		ug/L		104	80 - 153	9	16
Methylene Chloride	ND		50.0	49.43		ug/L		99	64 - 139	10	17
Naphthalene	ND	F2	50.0	53.11	F2	ug/L		106	55 - 140	57	26
N-Propylbenzene	ND		50.0	52.66		ug/L		105	69 - 142	8	17
p-Isopropyltoluene	ND		50.0	53.91		ug/L		108	71 - 137	9	16
sec-Butylbenzene	ND		50.0	54.29		ug/L		109	73 - 138	9	16
tert-Butylbenzene	ND		50.0	52.50		ug/L		105	70 - 138	9	16
Tetrachloroethene	ND		50.0	57.26		ug/L		115	72 - 145	8	16
Toluene	ND		50.0	48.57		ug/L		97	75 - 136	8	15
trans-1,2-Dichloroethene	ND		50.0	49.09		ug/L		98	66 - 143	8	16
trans-1,3-Dichloropropene	ND		50.0	50.59		ug/L		101	59 - 135	12	14
Trichloroethene	ND		50.0	52.84		ug/L		106	73 - 144	3	17
Trichlorofluoromethane	ND		50.0	56.62		ug/L		113	58 - 139	9	18
Vinyl chloride	ND		50.0	51.91		ug/L		104	56 - 129	7	17
Xylenes, Total	ND		100	105.2		ug/L		105	74 - 141	9	15
Methyl tert-butyl ether	ND		50.0	46.75		ug/L		93	66 - 141	16	16
n-Butylbenzene	ND		50.0	53.55		ug/L		107	66 - 141	9	18

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 490-296794/6
Matrix: Water
Analysis Batch: 296794

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			11/07/15 17:05	1

Lab Sample ID: LCS 490-296794/7
Matrix: Water
Analysis Batch: 296794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			100	93.91		mg/L		94	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 490-296794/8
Matrix: Water
Analysis Batch: 296794

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			100	93.76		mg/L		94	90 - 110	0	20

Lab Sample ID: 490-90786-N-1 MS
Matrix: Water
Analysis Batch: 296794

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	101	F1	100	178.8	F1	mg/L		77	80 - 120		

Lab Sample ID: MB 490-297035/3
Matrix: Water
Analysis Batch: 297035

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			11/08/15 02:01	1

Lab Sample ID: LCS 490-297035/4
Matrix: Water
Analysis Batch: 297035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate			100	91.26		mg/L		91	90 - 110		

Lab Sample ID: LCSD 490-297035/5
Matrix: Water
Analysis Batch: 297035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			100	91.52		mg/L		92	90 - 110	0	20

Lab Sample ID: 490-90940-E-2 MS
Matrix: Water
Analysis Batch: 297035

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	195	F1	100	252.9	E F1	mg/L		58	80 - 120		

GC/MS VOA

Analysis Batch: 296120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90944-1	TW-04	Total/NA	Water	8260C	
490-90944-2	OB-04	Total/NA	Water	8260C	
490-90944-3	OB-06	Total/NA	Water	8260C	
490-90944-4	OB-08	Total/NA	Water	8260C	
490-90944-5	BR-15	Total/NA	Water	8260C	
490-90944-5 MS	BR-15	Total/NA	Water	8260C	
490-90944-5 MSD	BR-15	Total/NA	Water	8260C	
490-90944-6	TW-20	Total/NA	Water	8260C	
490-90944-7	TW-09	Total/NA	Water	8260C	
490-90944-8	W-5	Total/NA	Water	8260C	
490-90944-9	TW-17	Total/NA	Water	8260C	
490-90944-10	BR-10	Total/NA	Water	8260C	
490-90944-11	BR-04	Total/NA	Water	8260C	
490-90944-12	BR-03	Total/NA	Water	8260C	
490-90944-13	BR-02	Total/NA	Water	8260C	
490-90944-14	BR-01	Total/NA	Water	8260C	
490-90944-15	Dup-01	Total/NA	Water	8260C	
490-90944-16	QAFB-01	Total/NA	Water	8260C	
490-90944-17	QARB-01	Total/NA	Water	8260C	
490-90944-18	QATB-01	Total/NA	Water	8260C	
LCS 490-296120/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-296120/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-296120/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 296312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90944-11	BR-04	Total/NA	Water	8260C	
490-90944-12	BR-03	Total/NA	Water	8260C	
490-90944-13	BR-02	Total/NA	Water	8260C	
490-90944-14	BR-01	Total/NA	Water	8260C	
490-91289-B-1 MS	Matrix Spike	Total/NA	Water	8260C	
490-91289-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	
LCS 490-296312/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-296312/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-296312/9	Method Blank	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 296794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90786-N-1 MS	Matrix Spike	Total/NA	Water	300.0	
490-90944-1	TW-04	Total/NA	Water	300.0	
490-90944-3	OB-06	Total/NA	Water	300.0	
490-90944-8	W-5	Total/NA	Water	300.0	
LCS 490-296794/7	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-296794/8	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-296794/6	Method Blank	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 297035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90940-E-2 MS	Matrix Spike	Total/NA	Water	300.0	
490-90944-9	TW-17	Total/NA	Water	300.0	
LCS 490-297035/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 490-297035/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 490-297035/3	Method Blank	Total/NA	Water	300.0	

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: TW-04
Date Collected: 10/27/15 10:40
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 06:08	AK1	TAL NSH
Total/NA	Analysis	300.0		1	10 mL		296794	11/07/15 23:37	JHS	TAL NSH

Client Sample ID: OB-04
Date Collected: 10/27/15 12:20
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 06:35	AK1	TAL NSH

Client Sample ID: OB-06
Date Collected: 10/27/15 15:15
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 07:03	AK1	TAL NSH
Total/NA	Analysis	300.0		1	10 mL		296794	11/07/15 23:54	JHS	TAL NSH

Client Sample ID: OB-08
Date Collected: 10/27/15 16:40
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 07:31	AK1	TAL NSH

Client Sample ID: BR-15
Date Collected: 10/28/15 11:55
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 05:40	AK1	TAL NSH

Client Sample ID: TW-20
Date Collected: 10/28/15 14:15
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 07:59	AK1	TAL NSH

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: TW-09
Date Collected: 10/28/15 15:23
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 08:27	AK1	TAL NSH

Client Sample ID: W-5
Date Collected: 10/28/15 17:00
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 08:55	AK1	TAL NSH
Total/NA	Analysis	300.0		1	10 mL		296794	11/08/15 00:11	JHS	TAL NSH

Client Sample ID: TW-17
Date Collected: 10/29/15 08:15
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 09:22	AK1	TAL NSH
Total/NA	Analysis	300.0		1	10 mL		297035	11/08/15 04:52	JHS	TAL NSH

Client Sample ID: BR-10
Date Collected: 10/29/15 09:40
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 09:50	AK1	TAL NSH

Client Sample ID: BR-04
Date Collected: 10/29/15 10:42
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 10:18	AK1	TAL NSH
Total/NA	Analysis	8260C		10	10 mL	10 mL	296312	11/06/15 21:32	KS	TAL NSH

Client Sample ID: BR-03
Date Collected: 10/29/15 12:20
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 10:46	AK1	TAL NSH
Total/NA	Analysis	8260C		10	10 mL	10 mL	296312	11/06/15 22:00	KS	TAL NSH

Lab Chronicle

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Client Sample ID: BR-02
Date Collected: 10/29/15 13:50
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 11:14	AK1	TAL NSH
Total/NA	Analysis	8260C		1	10 mL	10 mL	296312	11/06/15 21:04	KS	TAL NSH

Client Sample ID: BR-01
Date Collected: 10/29/15 15:07
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 11:42	AK1	TAL NSH
Total/NA	Analysis	8260C		10	10 mL	10 mL	296312	11/06/15 22:28	KS	TAL NSH

Client Sample ID: Dup-01
Date Collected: 10/28/15 01:01
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 12:10	AK1	TAL NSH

Client Sample ID: QAFB-01
Date Collected: 10/29/15 15:45
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 12:38	AK1	TAL NSH

Client Sample ID: QARB-01
Date Collected: 10/29/15 15:50
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 13:05	AK1	TAL NSH

Client Sample ID: QATB-01
Date Collected: 10/27/15 01:01
Date Received: 10/30/15 10:45

Lab Sample ID: 490-90944-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	10 mL	10 mL	296120	11/06/15 05:12	AK1	TAL NSH

Laboratory References:
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH
300.0	Anions, Ion Chromatography	MCAWW	TAL NSH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: AMEC Foster Wheeler E & I, Inc
Project/Site: Former Taylor Instruments

TestAmerica Job ID: 490-90944-1

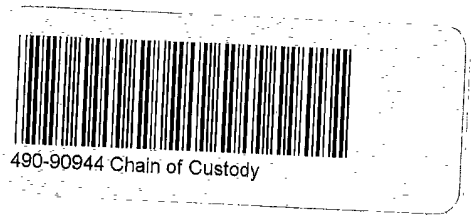
Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11342	03-31-16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM



Cooler Received/Opened On 10/30/2015 @ ~~0945~~ 1045 MDM 11-2-15

1. Tracking # 9690 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 2.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO..(NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) MDM

7. Were custody seals on containers: YES (NO) and Intact YES...NO..(NA)

Were these signed and dated correctly? YES...NO..(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)..NO...NA

12. Did all container labels and tags agree with custody papers? (YES)..NO...NA

13a. Were VOA vials received? (YES)..NO...NA

b. Was there any observable headspace present in any VOA vial? YES..(NO)..NA

14. Was there a Trip Blank in this cooler? (YES)..NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) MDM

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)..NO...NA

16. Was residual chlorine present? YES...NO..(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) MDM

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) MDM

I certify that I attached a label with the unique LIMS number to each container (intial) MDM

21. Were there Non-Conformance issues at login? YES..(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Chain of Custody Record

Loc: 490
90944
#1
D

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/13/2015

Client Information	Sampler: Noel Garland	Lab PM: Brown, Shali	Carrier Trac	COC No: 490-513-112.2
Client Contact: Mr. Joe Deatherage	Phone: 865-202-9713	E-Mail: shali.brown@testamericainc.com		Page: 1 of 2
Company: AMEC Environment & Infrastructure, Inc.		Analysis Requested		Job #
Address: 9725 Cogdill Road	Due Date Requested: STANDARD			Preservation Codes:
City: Knoxville	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: TN, 37932				
Phone: 865-218-1049(Tel)	PO #: C012604497			Other:
Email: joe.deatherage@amec.com	WO #:			
Project Name: Former Taylor Instruments	Project #: 30310520006			
Site: Rochester, Ny	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B VOC's Standard List	Sulfate 300.0	624 VOC's standard list	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A		
TW-04	10/27/15	1040	G	W			X	X			1
OB-04	"	1220	"	"			X				2
OB-06	"	1515	"	"			X	X			3
OB-08	"	1640	"	"			X				4
BR-15	10/28/15	1155	"	"			X				5
TW-20	"	1415	"	"			X				6
TW-09	"	1523	"	"			X				7
W-5	"	1700	"	"			X	X			8
TW-17	10/29/15	0815	"	"			X	X			9
BR-10	"	0940	"	"			X				10
BR-04	"	1042	"	"			X				11

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: [signature]	10/29/15 1745	AMEC FW	[signature]	10.30.15 @ 1045	TAN
Relinquished by:	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.9c

Chain of Custody Record

Loc: 490
90944
#2
A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

COC No: 490-513-112.2
Page: 2 of 2
Job #:

Client Information

Client Contact	Mr. Joe Deatherage
Company	AMEC Environment & Infrastructure, Inc.
Address	9725 Cogdill Road
City	Knoxville
State, Zip	TN, 37932
Phone	865-218-1049(Tel)
Email	joe.deatherage@amec.com
Project Name	Former Taylor Instruments
Site	Rochester, NY

Sampler	Noel Gorland
Phone:	865-202-9213
Lab PM.	Brown, Shali
E-Mail	shali.brown@testamericainc.com
Carrier	
Due Date Requested:	STANDARD
TAT Requested (days):	
PO #	C012604497
WO #:	
Project #	30310520006
SSOW#:	

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B VOC's Standard List	Sulfate 300.0	624 VOC's standard list	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A		
BR-03	10/29/15	1220	G	W			X				-12
BR-02	"	1350	"	"			X				13
BR-01	"	1507	"	"			X				14
Dup-01	10/28/15	—	"	"			X				15
QAFB-01	10/29/15	1545	"	"			X				16
QARB-01	"	1550	"	"			X				17
Trip Blank	—	—	—	W			X				18
											Lab provided

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment	
Relinquished by	Date/Time: 10/29/15 1745	Company: AMEC FW	Received by:	Date/Time: 10-30-15 @ 1045	Company: TAN
Relinquished by	Date/Time:	Company	Received by:	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∧ Yes ∧ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.9c

11/13/2015

Login Sample Receipt Checklist

Client: AMEC Foster Wheeler E & I, Inc

Job Number: 490-90944-1

Login Number: 90944
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

November 11, 2015

Joe Deatherage
AMEC Environment & Infrastructure, Inc.
9725 Cogdill Road
Knoxville, TN 37923
USA

RE: **FRM TAYLOR INSTRUMENTS**

Pace Workorder: *17217*

Dear Joe Deatherage:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, October 30, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ruth Welsh 11/11/2015

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 21

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
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SAMPLE SUMMARY

Workorder: 17217 FRM TAYLOR INSTRUMENTS

Lab ID	Sample ID	Matrix	Date Collected	Date Received
172170001	TW-04	Water	10/27/2015 10:40	10/30/2015 11:00
172170002	OB-04	Water	10/27/2015 12:20	10/30/2015 11:00
172170003	OB-06	Water	10/27/2015 15:15	10/30/2015 11:00
172170004	OB-08	Water	10/27/2015 16:40	10/30/2015 11:00
172170005	W-5	Water	10/28/2015 17:00	10/30/2015 11:00
172170006	TW-17	Water	10/29/2015 08:15	10/30/2015 11:00

Pace Analytical Energy Services, LLC
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PROJECT SUMMARY

Workorder: 17217 FRM TAYLOR INSTRUMENTS

Batch Comments

Batch: DISG/4964 - RSK175 QC

The relative percent difference between the sample and sample duplicate exceeded laboratory control limits; reference sample 171940002 and 171940003. Analyte Ethene and/or Ethane. Both concentrations were below reporting limits.

The relative percent difference between the sample and sample duplicate exceeded laboratory control limits; reference sample 171940003. Analyte Methane.

Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
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ANALYTICAL RESULTS

Workorder: 17217 FRM TAYLOR INSTRUMENTS

Lab ID: **172170001** Date Received: 10/30/2015 11:00 Matrix: Water

Sample ID: **TW-04** Date Collected: 10/27/2015 10:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G		Analytical Method: AM23G						
Lactic Acid	**0.014J**	mg/l	0.20	0.0030	1	11/8/2015 01:03	KB	
Acetic Acid	**0.033J**	mg/l	0.10	0.0060	1	11/8/2015 01:03	KB	B
Propionic Acid	**0.0030J**	mg/l	0.10	0.0010	1	11/8/2015 01:03	KB	
Formic Acid	**0.023J**	mg/l	0.10	0.0040	1	11/8/2015 01:03	KB	B
Butyric Acid	**0.0074J**	mg/l	0.10	0.0050	1	11/8/2015 01:03	KB	B
Pyruvic Acid	**0.10 U**	mg/l	0.10	0.012	1	11/8/2015 01:03	KB	
i-Pentanoic Acid	**0.10 U**	mg/l	0.10	0.012	1	11/8/2015 01:03	KB	
Pentanoic Acid	**0.10 U**	mg/l	0.10	0.0060	1	11/8/2015 01:03	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.010	1	11/8/2015 01:03	KB	
Hexanoic Acid	**0.20 U**	mg/l	0.20	0.010	1	11/8/2015 01:03	KB	
RISK - MICR								
Analysis Desc: EPA RSK175		Analytical Method: EPA RSK175						
Methane	**3900**	ug/l	50	4.2	100	11/4/2015 13:03	SL	d,B
Ethene	**0.20 U**	ug/l	0.20	0.030	1	11/3/2015 16:16	SL	D1

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Pittsburgh, PA 15238
Phone: (412) 826-5245
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ANALYTICAL RESULTS

Workorder: 17217 FRM TAYLOR INSTRUMENTS

Lab ID: **172170002** Date Received: 10/30/2015 11:00 Matrix: Water

Sample ID: **OB-04** Date Collected: 10/27/2015 12:20

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G			Analytical Method: AM23G					
Lactic Acid	**0.20 U**	mg/l	0.20	0.0030	1	11/8/2015 03:44	KB	
Acetic Acid	**2.6**	mg/l	0.10	0.0060	1	11/8/2015 03:44	KB	B
Propionic Acid	**0.029J**	mg/l	0.10	0.0010	1	11/8/2015 03:44	KB	
Formic Acid	**0.050J**	mg/l	0.10	0.0040	1	11/8/2015 03:44	KB	B
Butyric Acid	**0.076J**	mg/l	0.10	0.0050	1	11/8/2015 03:44	KB	B
Pyruvic Acid	**0.10 U**	mg/l	0.10	0.012	1	11/8/2015 03:44	KB	
i-Pentanoic Acid	**0.10 U**	mg/l	0.10	0.012	1	11/8/2015 03:44	KB	
Pentanoic Acid	**0.10 U**	mg/l	0.10	0.0060	1	11/8/2015 03:44	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.010	1	11/8/2015 03:44	KB	
Hexanoic Acid	**0.021J**	mg/l	0.20	0.010	1	11/8/2015 03:44	KB	

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS

Workorder: 17217 FRM TAYLOR INSTRUMENTS

Lab ID: **172170003** Date Received: 10/30/2015 11:00 Matrix: Water

Sample ID: **OB-06** Date Collected: 10/27/2015 15:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G			Analytical Method: AM23G					
Lactic Acid	**0.20 U**	mg/l	0.20	0.0030	1	11/8/2015 04:37	KB	
Acetic Acid	**4.8**	mg/l	0.10	0.0060	1	11/8/2015 04:37	KB	B
Propionic Acid	**0.094J**	mg/l	0.10	0.0010	1	11/8/2015 04:37	KB	
Formic Acid	**0.026J**	mg/l	0.10	0.0040	1	11/8/2015 04:37	KB	B
Butyric Acid	**0.044J**	mg/l	0.10	0.0050	1	11/8/2015 04:37	KB	B
Pyruvic Acid	**0.10 U**	mg/l	0.10	0.012	1	11/8/2015 04:37	KB	
i-Pentanoic Acid	**0.017J**	mg/l	0.10	0.012	1	11/8/2015 04:37	KB	
Pentanoic Acid	**0.10 U**	mg/l	0.10	0.0060	1	11/8/2015 04:37	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.010	1	11/8/2015 04:37	KB	
Hexanoic Acid	**0.20 U**	mg/l	0.20	0.010	1	11/8/2015 04:37	KB	
RISK - MICR								
Analysis Desc: EPA RSK175			Analytical Method: EPA RSK175					
Methane	**17000**	ug/l	50	4.2	100	11/4/2015 13:13	SL	d,B
Ethene	**1.7**	ug/l	0.20	0.030	1	11/3/2015 16:27	SL	D1

CERTIFICATE OF ANALYSIS

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Pittsburgh, PA 15238
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Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 17217 FRM TAYLOR INSTRUMENTS

Lab ID: **172170004** Date Received: 10/30/2015 11:00 Matrix: Water

Sample ID: **OB-08** Date Collected: 10/27/2015 16:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G			Analytical Method: AM23G					
Lactic Acid	**0.20 U**	mg/l	0.20	0.0030	1	11/8/2015 05:30	KB	
Acetic Acid	**0.085J**	mg/l	0.10	0.0060	1	11/8/2015 05:30	KB	B
Propionic Acid	**0.0020J**	mg/l	0.10	0.0010	1	11/8/2015 05:30	KB	
Formic Acid	**0.025J**	mg/l	0.10	0.0040	1	11/8/2015 05:30	KB	B
Butyric Acid	**0.0062J**	mg/l	0.10	0.0050	1	11/8/2015 05:30	KB	B
Pyruvic Acid	**0.10 U**	mg/l	0.10	0.012	1	11/8/2015 05:30	KB	
i-Pentanoic Acid	**0.10 U**	mg/l	0.10	0.012	1	11/8/2015 05:30	KB	
Pentanoic Acid	**0.10 U**	mg/l	0.10	0.0060	1	11/8/2015 05:30	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.010	1	11/8/2015 05:30	KB	
Hexanoic Acid	**0.20 U**	mg/l	0.20	0.010	1	11/8/2015 05:30	KB	

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services, LLC
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Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 17217 FRM TAYLOR INSTRUMENTS

Lab ID: **172170005** Date Received: 10/30/2015 11:00 Matrix: Water

Sample ID: **W-5** Date Collected: 10/28/2015 17:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G		Analytical Method: AM23G						
Lactic Acid	**0.20 U**	mg/l	0.20	0.0030	1	11/8/2015 06:24	KB	
Acetic Acid	**0.026J**	mg/l	0.10	0.0060	1	11/8/2015 06:24	KB	B
Propionic Acid	**0.0023J**	mg/l	0.10	0.0010	1	11/8/2015 06:24	KB	
Formic Acid	**0.033J**	mg/l	0.10	0.0040	1	11/8/2015 06:24	KB	B
Butyric Acid	**0.0059J**	mg/l	0.10	0.0050	1	11/8/2015 06:24	KB	B
Pyruvic Acid	**0.10 U**	mg/l	0.10	0.012	1	11/8/2015 06:24	KB	
i-Pentanoic Acid	**0.10 U**	mg/l	0.10	0.012	1	11/8/2015 06:24	KB	
Pentanoic Acid	**0.10 U**	mg/l	0.10	0.0060	1	11/8/2015 06:24	KB	
i-Hexanoic Acid	**0.20 U**	mg/l	0.20	0.010	1	11/8/2015 06:24	KB	
Hexanoic Acid	**0.20 U**	mg/l	0.20	0.010	1	11/8/2015 06:24	KB	
RISK - MICR								
Analysis Desc: EPA RSK175		Analytical Method: EPA RSK175						
Methane	**2100**	ug/l	50	4.2	100	11/4/2015 13:29	SL	d,B
Ethene	**6.1**	ug/l	0.20	0.030	1	11/3/2015 16:46	SL	D1

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ANALYTICAL RESULTS

Workorder: 17217 FRM TAYLOR INSTRUMENTS

Lab ID: **172170006** Date Received: 10/30/2015 11:00 Matrix: Water

Sample ID: **TW-17** Date Collected: 10/29/2015 08:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
EDonors - MICR								
Analysis Desc: AM23G			Analytical Method: AM23G					
Lactic Acid	**0.060J**	mg/l	2.0	0.030	10	11/10/2015 09:36	KB	d
Acetic Acid	**43**	mg/l	1.0	0.060	10	11/10/2015 09:36	KB	d,B
Propionic Acid	**0.27J**	mg/l	1.0	0.010	10	11/10/2015 09:36	KB	d,B
Formic Acid	**1.0 U**	mg/l	1.0	0.040	10	11/10/2015 09:36	KB	d,B
Butyric Acid	**1.6**	mg/l	1.0	0.050	10	11/10/2015 09:36	KB	d,B
Pyruvic Acid	**0.061J**	mg/l	0.10	0.012	1	11/8/2015 07:17	KB	
i-Pentanoic Acid	**0.11**	mg/l	0.10	0.012	1	11/8/2015 07:17	KB	
Pentanoic Acid	**0.033J**	mg/l	0.10	0.0060	1	11/8/2015 07:17	KB	
i-Hexanoic Acid	**0.034J**	mg/l	0.20	0.010	1	11/8/2015 07:17	KB	
Hexanoic Acid	**0.59**	mg/l	0.20	0.010	1	11/8/2015 07:17	KB	
RISK - MICR								
Analysis Desc: EPA RSK175			Analytical Method: EPA RSK175					
Methane	**15000**	ug/l	50	4.2	100	11/4/2015 13:45	SL	d,B
Ethene	**0.94**	ug/l	0.20	0.030	1	11/3/2015 17:18	SL	D1

CERTIFICATE OF ANALYSIS

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 17217 FRM TAYLOR INSTRUMENTS

DEFINITIONS/QUALIFIERS

Disclaimer : The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAx, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
B	The analyte was detected in the associated blank.
d	The analyte concentration was determined from a dilution.
D1	The duplicate relative percent difference (RPD) exceeded laboratory control limits.

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QUALITY CONTROL DATA

Workorder: 17217 FRM TAYLOR INSTRUMENTS

QC Batch: DISG/4964 Analysis Method: EPA RSK175

QC Batch Method: EPA RSK175

Associated Lab Samples: 172170001, 172170003, 172170005, 172170006

METHOD BLANK: 38343

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Ethene	ug/l	0.20 U	0.20	D1

LABORATORY CONTROL SAMPLE & LCSD: 38344 38345

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Ethene	ug/l	78	75	77	96	99	85-115	3.1	20	D1

SAMPLE DUPLICATE: 38346 Original: 171940002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
RISK						
Ethene	ug/l	0.0039	0.20 U	33	20	D1

SAMPLE DUPLICATE: 38347 Original: 171940003

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
RISK						
Ethene	ug/l	0	0.20 U	0	20	D1

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QUALITY CONTROL DATA

Workorder: 17217 FRM TAYLOR INSTRUMENTS

QC Batch: DISG/4969 Analysis Method: EPA RSK175

QC Batch Method: EPA RSK175

Associated Lab Samples: 172170001, 172170003, 172170005, 172170006

METHOD BLANK: 38393

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.051J	0.50	B

LABORATORY CONTROL SAMPLE & LCSD: 38394 38395

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	44	44	43	98	96	85-115	2.1	20	B

SAMPLE DUPLICATE: 38397 Original: 172170006

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
RISK						
Methane	ug/l	15000	15000	2	20	d,B

SAMPLE DUPLICATE: 38416 Original: 172170001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	Qualifiers
RISK						
Methane	ug/l	3900	3500	11	20	d,B

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QUALITY CONTROL DATA

Workorder: 17217 FRM TAYLOR INSTRUMENTS

QC Batch: EDON/2707 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 172170001, 172170002, 172170003, 172170004, 172170005, 172170006

METHOD BLANK: 38432

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.20 U	0.20	
Acetic Acid	mg/l	0.023J	0.10	B
Propionic Acid	mg/l	0.10 U	0.10	
Formic Acid	mg/l	0.0069J	0.10	B
Butyric Acid	mg/l	0.0079J	0.10	B
Pyruvic Acid	mg/l	0.10 U	0.10	
i-Pentanoic Acid	mg/l	0.10 U	0.10	
Pentanoic Acid	mg/l	0.10 U	0.10	
i-Hexanoic Acid	mg/l	0.20 U	0.20	
Hexanoic Acid	mg/l	0.20 U	0.20	

LABORATORY CONTROL SAMPLE: 38433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.1	106	70-130	
Acetic Acid	mg/l	2	2.1	104	70-130	B
Propionic Acid	mg/l	2	2.1	105	70-130	
Formic Acid	mg/l	2	1.9	96	70-130	B
Butyric Acid	mg/l	2	2.1	104	70-130	B
Pyruvic Acid	mg/l	2	2.2	109	70-130	
i-Pentanoic Acid	mg/l	2	2.1	103	70-130	
Pentanoic Acid	mg/l	2	2.0	102	70-130	
i-Hexanoic Acid	mg/l	2	2.0	100	70-130	
Hexanoic Acid	mg/l	2	1.9	96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 38434 38435 Original: 172170001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
EDonors											
Lactic Acid	mg/l	0.014	2	2.0	2.0	101	101	70-130	0	30	

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QUALITY CONTROL DATA

Workorder: 17217 FRM TAYLOR INSTRUMENTS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 38434 38435 Original: 172170001

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Acetic Acid	mg/l	0.033	2	2.0	2.2	101	106	70-130	4.8	30	B
Propionic Acid	mg/l	0.003	2	2.1	2.2	103	110	70-130	6.6	30	
Formic Acid	mg/l	0.023	2	1.9	2.0	93	97	70-130	4.2	30	B
Butyric Acid	mg/l	0.0074	2	2.0	2.3	102	113	70-130	10	30	B
Pyruvic Acid	mg/l	0	2	2.1	2.1	104	105	70-130	0.96	30	
i-Pentanoic Acid	mg/l	0	2	2.0	2.2	101	111	70-130	9.4	30	
Pentanoic Acid	mg/l	0	2	2.0	2.3	102	115	70-130	12	30	
i-Hexanoic Acid	mg/l	0	2	2.0	2.3	101	115	70-130	13	30	
Hexanoic Acid	mg/l	0.003	2	2.0	2.3	99	116	70-130	16	30	

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QUALITY CONTROL DATA

Workorder: 17217 FRM TAYLOR INSTRUMENTS

QC Batch: EDON/2712 Analysis Method: AM23G

QC Batch Method: AM23G

Associated Lab Samples: 172170006

METHOD BLANK: 38550

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
EDonors				
Lactic Acid	mg/l	0.20 U	0.20	
Acetic Acid	mg/l	0.028J	0.10	B
Propionic Acid	mg/l	0.0030J	0.10	B
Formic Acid	mg/l	0.011J	0.10	B
Butyric Acid	mg/l	0.0097J	0.10	B

LABORATORY CONTROL SAMPLE: 38551

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
EDonors						
Lactic Acid	mg/l	2	2.1	104	70-130	
Acetic Acid	mg/l	2	2.0	101	70-130	B
Propionic Acid	mg/l	2	2.0	103	70-130	B
Formic Acid	mg/l	2	1.9	96	70-130	B
Butyric Acid	mg/l	2	2.0	101	70-130	B

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 17217 FRM TAYLOR INSTRUMENTS

QUALITY CONTROL PARAMETER QUALIFIERS

B	The analyte was detected in the associated blank.
D1	The duplicate relative percent difference (RPD) exceeded laboratory control limits.
d	The analyte concentration was determined from a dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 17217 FRM TAYLOR INSTRUMENTS

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
172170001	TW-04			EPA RSK175	DISG/4964
172170003	OB-06			EPA RSK175	DISG/4964
172170005	W-5			EPA RSK175	DISG/4964
172170006	TW-17			EPA RSK175	DISG/4964
172170001	TW-04			EPA RSK175	DISG/4969
172170003	OB-06			EPA RSK175	DISG/4969
172170005	W-5			EPA RSK175	DISG/4969
172170006	TW-17			EPA RSK175	DISG/4969
172170001	TW-04			AM23G	EDON/2707
172170002	OB-04			AM23G	EDON/2707
172170003	OB-06			AM23G	EDON/2707
172170004	OB-08			AM23G	EDON/2707
172170005	W-5			AM23G	EDON/2707
172170006	TW-17			AM23G	EDON/2707
172170006	TW-17			AM23G	EDON/2712

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

17217

Page: of

005559

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Amec Foster Wheeler	Report To: Joe Deatherage	Attention:
Address:	Copy To:	Company Name:
		Address:
Email To: joe.deatherage@amecfw.com	Purchase Order No.: C01260.4496	Pace Quote Reference:
Phone: 867-218-1049 Fax: —	Project Name: Former Taylor Instruments	Pace Project Manager:
Requested Due Date/TAT: STANDARD	Project Number: 30310520006	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Matrix Codes (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE ~~START~~ End/Grab DATE	TIME	COMPOSITE ~~END/GRAB~~ DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	TSP	BAK	Zinc Acetate & NaOH	Other Na_2PO_4	Y/N	Analysis Test: VISA's	methane/ethane													Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	Tw-04	WT	G	10/27	1040										X		X		X	X												
2	OB-04			10/27	1220										X				X													
3	OB-06			10/27	1515										X		X		X	X												
4	OB-08			10/27	1640										X				X													
5	W-5			10/28	1700										X		X		X	X												
6	Tw-17			10/29	0815										X		X		X	X												
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Mark Garland / Amec FW	10/29/15	1745	[illegible] PACE	10/30/15	1100	2	Y	Y	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Garland

SIGNATURE of SAMPLER: Mark Garland

DATE Signed (MM/DD/YY): 10/29/15

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

NON-CONFORMANCE FORM

PAES Work Order #: 17217

Date: 10.30.15 Time of Receipt: 11:00 Receiver: GY

Client: Amec

REASON FOR NON-CONFORMANCE:

OB-08: 2nd vial of BAK vials ID was OB-04.

ACTION TAKEN:

Client name: _____ Date: _____ Time: _____

OK to proceed

Customer Service Initials: RW Date: 10-30-15

Cooler Receipt Form

Client Name: Amec Project: Frm. Taylor Instruments Lab Work Order: 17217

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 8086 3098 2338

Custody Seal on Cooler/Box Present: (Yes) No Seals Intact: (Yes) No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam Other:_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 2°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected		✓		
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by: LY Date: 10.30.15

Project Manager Review: RW Date: 10-30-15

APPENDIX E

FIELD DATA RECORDS

MAY 2015
FIELD DATA RECORDS

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 5-12-15

SITE ID: OB-04

SITE TYPE: Monitor Well

SITE ACTIVITY — START: 1140 END:

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): — FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.3 FT

INITIAL DEPTH TO WATER	3.18 FT	WELL DEPTH	16.45 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.40 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	N/A PPM		
DRAWDOWN	4.12 FT	DRAWDOWN VOLUME	0.6592 GAL	PRODUCT THICKNESS	N/A FT		

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR			—

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
0.151 L/MIN	1144	1313	3.50 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
1147	FC	6.69	0.967	19.6	0.81	14.82	-87.4	4.28	light gray - strong odor
1152	1	6.51	0.939	19.4	0.68	14.30	-113.1	5.33	" "
1158	1	6.48	0.935	20.3	0.27	14.14	-129.0	5.90	slowed pump
1211	2	6.54	1.003	17.5	0.25	14.62	-135.1	6.93	lt. gray - solvent odor black flakes
1224	2	6.55	1.006	10.6	0.28	14.46	-138.9	6.91	
1237	2	6.54	1.005	12.6	0.30	14.34	-139.5	7.22	lt gray - slight odor
1250	2	6.53	1.018	12.1	0.34	14.27	-145.1	7.44	gray tint - odor
1255	0.75	6.53	1.031	13.3	0.36	14.17	-143.6	7.51	" "
1301	0.75	6.53	1.044	10.4	0.38	14.39	-147.7	7.48	" "
1307	0.75	6.52	1.060	11.6	0.40	14.35	-148.7	7.44	" "
1313	0.75	6.53	1.070	11.4	0.41	14.32	-148.6	7.41	" "
1315	—	—	—	Collect Sample		—	—		

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ 14 ft btoc

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1315
[X]	VFAs		1315
[ ]	Sulfate		
[ ]	Methane/ethene		

SIGNATURE:

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 5-12-15

SITE ID: OB - 06

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1330 END

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): — FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.4 FT

INITIAL DEPTH TO WATER	3.94 FT	WELL DEPTH	16.45 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	6.28 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	N/A PPM	WELL INTEGRITY: CAP	YES ✓ NO — N/A —
DRAWDOWN	2.34 FT	DRAWDOWN VOLUME	0.3744 GAL	PRODUCT THICKNESS	N/A FT	CASING	YES ✓ NO — N/A —
						LOCKED	YES — NO — N/A —
						COLLAR	YES — NO — N/A ✓

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
0.165 L/MIN	1334	1428	2.31 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
1337	PC	6.83	1.112	3.9	2.69	14.03	-28.7	4.65	clear - no odor
1343	1.1	6.68	1.091	2.3	0.49	17.60	-51.2	5.43	clear - no odor
1355	2	6.68	1.027	3.4	0.42	13.44	-57.0	6.11	" "
1407	2	6.65	1.038	3.4	0.45	13.28	-70.2	6.37	" " switched to grundfos pump
1414	1.1	6.63	1.047	3.0	0.44	13.44	-77.9	6.36	clear - no odor
1421	1.1	6.62	1.056	2.6	0.43	13.33	-80.6	6.31	clear - no odor
1428	1.1	6.62	1.060	2.9	0.42	13.26	-87.0	6.29	" "
1435			Collect Sample						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ 11.5 ft btoc

SIGNATURE:

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1435
[X]	VFAs		1435
[X]	Sulfate		1435
[X]	Methane/ethene		1435

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments, 2015 Semi-Annual Sampling Event
DATE: 5-12-15
SITE ID: OB-08
SITE TYPE: Monitor Well
SITE ACTIVITY: START 1455 END
JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER; [ ] TOP OF PROTECTIVE CASING; [ ] OTHER
PROTECTIVE CASING STICKUP (FROM GROUND): — FT
PROTECTIVE CASING / WELL DIFFERENCE: 0.35 FT

INITIAL DEPTH TO WATER	5.80 FT	WELL DEPTH	25.3 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.78 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	N/A PPM		
DRAWDOWN	1.98 FT	DRAWDOWN VOLUME	0.3168 GAL	PRODUCT THICKNESS	N/A FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.146 L/MIN
BEGIN PURGING: 1459
END PURGING: 1628
TOTAL VOL. PURGED: 3.43 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
1503	FC	7.66	0.271	8.5	3.44	14.92	70.6	6.56	clear - no odor
1514	2	7.35	0.177	8.5	0.69	14.07	5.3	7.53	slowed pump
1527	2	7.13	0.247	11.8	0.57	13.91	-57.5	7.72	clear - no odor
1534	1	7.13	0.295	8.0	0.52	13.84	-73.8	7.76	" "
1541	1	7.11	0.336	6.2	0.42	13.95	-70.0	7.79	" "
1548	1	7.12	0.379	5.3	0.35	13.89	-62.6	7.82	" "
1555	1	7.12	0.396	4.4	0.33	13.84	-80.8	7.84	" "
1602	1	7.13	0.423	4.2	0.31	13.75	-88.1	7.86	" "
1609	1	7.11	0.458	3.3	0.29	13.78	-90.9	7.88	" "
1616	1	7.11	0.482	3.0	0.27	13.72	-95.4	7.89	slowed pump
1622	0.80	7.10	0.494	3.0	0.25	13.73	-93.1	7.85	clear - no odor
1628	0.80	7.11	0.504	2.6	0.25	13.82	-96.7	7.81	" "
1630	—	—	Collect	Sample	—	—	—	—	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER	[ ] OTHER	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Intake @ 20 ft btoc

SIGNATURE:

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1630
[X]	VFAs		1630
[ ]	Sulfate		
[ ]	Methane/ethene		

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 5-12-15

SITE ID: TW-04

SITE TYPE: Monitor Well

SITE ACTIVITY: START 0945 END

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)	2.6 FT	PROTECTIVE CASING / WELL DIFFERENCE	0.25 FT				
INITIAL DEPTH TO WATER	10.27 FT	WELL DEPTH	17.3 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	14.34 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	N/A PPM	WELL INTEGRITY: CAP	YES X, NO, N/A
DRAWDOWN	4.07 FT	DRAWDOWN VOLUME	0.6512 GAL	PRODUCT THICKNESS	N/A FT	CASING	YES X, NO, N/A
						LOCKED	YES X, NO, N/A
						COLLAR	YES X, NO, N/A

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
0.157 L/MIN	1001	1115	3.02 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
1006	PC	6.65	0.972	3.5	1.81	13.23	-7.1	11.15	clear - no odor
1012	1	6.79	0.980	1.7	1.09	12.03	-45.7	12.10	" "
1023	2	6.90	0.979	1.6	0.11	11.70	-49.3	13.35	slowed pump
1030	1.1	6.95	0.999	2.0	0.12	12.32	-55.0	13.45	clear - no odor
1036	1	6.97	1.012	1.1	0.05	12.17	-55.4	13.65	" "
1043	1	6.97	1.016	0.7	0.04	12.19	-54.1	13.81	" " slowed pump
1050	1	6.97	1.024	0.6	0.06	12.21	-53.3	13.95	clear - no odor
1057	1	6.99	1.022	0.7	0.05	12.48	-53.2	14.06	" "
1102	0.75	7.00	1.022	0.8	0.05	12.21	-52.8	14.15	clear - no odor
1107	0.75	7.00	1.021	0.6	0.04	12.03	-51.7	14.25	
1112	0.75	7.01	1.017	0.9	0.04	12.00	-51.3	14.30	
1115			Collect	Sample					

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER	[ ] OTHER	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Intake @ 14.8 ft btoc

SIGNATURE:

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1115
[X]	VFAs		1115
[X]	Sulfate		1115
[X]	Methane/ethene		1115

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments, 2015 Semi-Annual Sampling Event
DATE: 5-13-15
SITE ID: TW-09
SITE TYPE: Monitor Well
SITE ACTIVITY: START 1307 END 1422
JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER; [ ] TOP OF PROTECTIVE CASING; [ ] OTHER
PROTECTIVE CASING STICKUP (FROM GROUND): — FT
PROTECTIVE CASING / WELL DIFFERENCE: 0.3 FT

INITIAL DEPTH TO WATER	11.90 FT	WELL DEPTH	17.70 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	IN
FINAL DEPTH TO WATER	12.26 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	N/A PPM		
DRAWDOWN	0.36 FT	DRAWDOWN VOLUME	0.0576 GAL	PRODUCT THICKNESS	N/A FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.128 L/MIN
BEGIN PURGING: 1314
END PURGING: 1411
TOTAL VOL. PURGED: 1.90 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
1318	FC	7.13	0.631	12.2	2.88	11.30	116.6	12.07	clear-
1325	1	7.06	0.626	9.3	1.50	11.11	85.0	12.13	slowed pump
1338	@1.5	7.07	0.624	6.9	0.73	11.28	-18.2	12.18	clear- No odor
1346	1	7.06	0.626	4.7	0.53	10.98	-43.0	12.22	" "
1353	1	7.06	0.625	4.8	0.45	11.18	-41.7	12.26	" "
1359	0.8	7.07	0.626	3.4	0.44	11.12	-43.3	12.26	clear - No odor
1405	0.75	7.07	0.624	2.9	0.45	11.17	-44.0	12.26	" "
1411	0.75	7.07	0.624	1.9	0.45	11.25	-48.7	12.26	clear - No odor
1415	collect sample								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER	[ ] OTHER	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Intake @ 15 Ft btoc

SIGNATURE:

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1415
[ ]	VFAs		
[ ]	Sulfate		
[ ]	Methane/ethene		

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments, 2015 Semi-Annual Sampling Event
DATE: 5-12-15, 5-13-15
SITE ID: TW-17
SITE TYPE: Monitor Well
SITE ACTIVITY: START 1642 END 1128
JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER; [ ] TOP OF PROTECTIVE CASING; [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)	2 FT	PROTECTIVE CASING / WELL DIFFERENCE	0.25 FT				
INITIAL DEPTH TO WATER	8.86 FT	WELL DEPTH	17.04 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	12.44 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	N/A PPM		
DRAWDOWN	3.58 FT	DRAWDOWN VOLUME	0.573 GAL	PRODUCT THICKNESS	N/A FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR			

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.157 L/MIN
BEGIN PURGING: 1646 / 1050
END PURGING: 1728 / 1124
TOTAL VOL. PURGED: 3.10 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
1649	FC	6.85	0.824	6.5	4.23	11.49	-18.7	9.85	clear-slight odor
1659	2	6.62	0.780	6.7	0.27	10.76	-51.5	11.38	black FI flakes
1710	2	6.69	0.785	7.2	0.24	10.68	-58.9	12.45	clear - sl. odor
1716	1	6.70	0.791	9.3	0.25	10.98	-65.8	13.25	" "
1722	1	6.71	0.798	10.8	0.31	10.92	-68.5	14.07	" "
1728	0.9	6.70	0.806	13.9	0.42	10.95	-64.3	14.80	Dry - Cloudy
5-13 1040	collect Samples First then parameters							8.72	
1050	FC	6.85	0.950	19.9		9.96	-59.1	9.55	clear - no odor
1100	— collect Sample								
1110	1	6.77	0.958	17.4	0.67	9.69	-78.2	11.51	cloudy - no odor
1117	1	6.78	0.947	13.2	0.36	9.58	-77.1	11.98	" "
1124	1	6.76	0.935	8.1	0.39	9.99	-80.9	12.44	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (If applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER	[ ] OTHER	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Intake @ 14.75 ft btoc

SIGNATURE:

NOTES

	Preservation	Time Collected
[X] VOC (modified list)	HCL	1100
[X] VFAs		1100
[X] Sulfate		1100
[X] Methane/ethene		1100

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments, 2015 Semi-Annual Sampling Event
DATE: 5-13-15
SITE ID: TW-20
SITE TYPE: Monitor Well
SITE ACTIVITY: START 1132 END 1305
JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND)	2.3 FT	PROTECTIVE CASING / WELL DIFFERENCE	0.27 FT				
INITIAL DEPTH TO WATER	12.85 FT	WELL DEPTH	17.22 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	13.33 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	N/A PPM	WELL INTEGRITY: CAP / CASING / LOCKED / COLLAR	YES: X X X X; NO: — — — —; N/A: — — — —
DRAWDOWN	0.48 FT	DRAWDOWN VOLUME	0.0768 GAL	PRODUCT THICKNESS	N/A FT		

((Initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.134 L/MIN
BEGIN PURGING: 1144
END PURGING: 1259
TOTAL VOL. PURGED: 2.61 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
1150	FC	7.17	0.544	0.26	2.75	10.51	171.5	13.02	clear - no odor
1200	1.5	7.18	0.510	0.19	3.85	9.61	171.8	13.15	" "
1207	1	7.20	0.508	0.11	3.74	9.56	163.8	13.20	slowed pump
1214	1	7.20	0.505	Q.Q	3.45	9.49	162.5	13.23	clear - no odor
1221	1	7.21	0.507	Q.8	3.47	9.45	157.9	13.26	" "
1229	1	7.21	0.507	Q.Q	3.23	9.50	152.8	13.27	slowed pump
1235	0.75	7.21	0.509	Q.Q	3.49	9.47	152.8	13.28	clear - no odor
1241	0.75	7.20	0.507	Q.Q	3.23	9.50	151.7	13.29	
1247	0.75	7.21	0.507	Q.Q	3.21	9.47	151.5	13.31	
1253	0.75	7.21	0.507	Q.Q	3.25	9.42	150.8	13.31	
1259	0.75	7.21	0.507	Q.Q	3.24	9.44	149.4	13.32	
1300			collect Sample						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER _____	[ ] OTHER _____	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Intake @ 14.75

SIGNATURE: _____

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1300
[ ]	VFAs		
[ ]	Sulfate		
[ ]	Methane/ethene		

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments, 2015 Semi-Annual Sampling Event
DATE: 5-13-15
SITE ID: W-5
SITE TYPE: Monitor Well
SITE ACTIVITY: START 1425 END 1610
JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER; [ ] TOP OF PROTECTIVE CASING; [ ] OTHER
PROTECTIVE CASING STICKUP (FROM GROUND): — FT
PROTECTIVE CASING / WELL DIFFERENCE: 0.25 FT

INITIAL DEPTH TO WATER	5.68 FT	WELL DEPTH	21.8 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	9.15 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	N/A PPM	WELL INTEGRITY: CAP	YES X
DRAWDOWN	3.47 FT	DRAWDOWN VOLUME	0.5552 GAL	PRODUCT THICKNESS	N/A FT	CASING	YES X
						LOCKED	YES X
						COLLAR	N/A X

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.125 L/MIN
BEGIN PURGING: 1431
END PURGING: 1551
TOTAL VOL. PURGED: 2.59 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
1434	FC	6.75	1.023	7.9	3.64	12.06	-58.9	6.34	clear - no odor
1441	1	6.74	1.035	73.0	0.69	11.91	-55.3	7.40	cloudy - no odor
1449	1	6.73	1.038	49.7	0.47	11.70	-54.5	8.02	orange fines
1456	1	6.73	1.038	13.0	0.35	12.03	-52.0	8.38	clear - no odor
1504	1	6.72	1.046	12.5	0.30	11.99	-51.7	8.60	slowed pump as low as possible
1513	1	6.72	1.055	9.54	0.31	12.05	-50.6	8.77	clear - no odor
1521	1	6.72	1.055	6.23	0.25	11.69	-51.7	8.95	sped pump up
1537	2	6.72	1.060	6.10	0.23	11.71	-49.4	9.30	clear - no odor
1544	0.8	6.72	1.060	3.87	0.23	11.74	-48.4	9.22	slowed pump
1551	0.8	6.72	1.065	4.31	0.22	11.79	-49.0	9.18	clear - no odor
1555	collect Sample								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER	[ ] OTHER	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Intake @ 19.3 ft btoc

SIGNATURE:

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1555
[X]	VFAs		1555
[X]	Sulfate		1555
[X]	Methane/ethene		1555

Dup-01 → 1555
VOC's only

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: ~~5-13-15~~ 5-14-15

SITE ID: BR-01

SITE TYPE: Monitor Well

SITE ACTIVITY — START: 710 END: 0827

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND)	2.3 FT	PROTECTIVE CASING / WELL DIFFERENCE	NA FT				
INITIAL DEPTH TO WATER	13.48 FT	WELL DEPTH	38.6 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	13.72 FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	N/A PPM	WELL INTEGRITY:	YES / NO / N/A
DRAWDOWN	0.24 FT	DRAWDOWN VOLUME	0.0384 GAL	PRODUCT THICKNESS	N/A FT	CAP	✓ / — / —
						CASING	✓ / — / —
						LOCKED	✓ / — / —
						COLLAR	✓ / — / —

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
0.131 L/MIN	0724 ~~1507~~	0818	1.84 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
~~0728~~	FC	7.12	0.787	22.7	2.56	10.64	60.2	13.56	cloudy - no odor
0735	1	7.09	0.892	12.02	0.88	10.84	-71.4	13.59	clear - no odor
0743	1	6.99	0.944	~~11.05~~ 9.52	0.99	11.05	-75.6	13.64	" "
0757	2	6.96	0.983	6.76	0.51	11.36	-73.4	13.74	" "
0804	0.85	6.95	0.992	3.85	0.47	11.35	-67.9	13.74	clear - no odor
0811	0.85	6.95	1.007	1.85	0.45	11.44	-63.1	13.73	" "
0818	0.85	6.94	1.017	2.12	0.44	11.50	-63.3	13.72	" "
0820	collect Sample								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER _____	[ ] OTHER _____	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Intake @ 23.5 ft btoc

Pre		After
1.205	Cond	1.413
7.12	pH	7.00
3.60	pH	4.00
9.92	pH	9.99
213.9	ORP	240.0

SIGNATURE: _____

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	0820
[ ]	VFAs		
[ ]	Sulfate		
[ ]	Methane/ethene		

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments, 2015 Semi-Annual Sampling Event
DATE: 5-14-15
SITE ID: BR-02
SITE TYPE: Monitor Well
SITE ACTIVITY: START 1240 END 1410
JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND)	— FT	PROTECTIVE CASING / WELL DIFFERENCE	0.45 FT				
INITIAL DEPTH TO WATER	22.66 FT	WELL DEPTH	44 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	23.03 FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	N/A PPM	WELL INTEGRITY: CAP / CASING / LOCKED / COLLAR	YES: X / X / X / — NO: — / — / — / — N/A: — / — / — / X
DRAWDOWN	0.37 FT	DRAWDOWN VOLUME	0.2405 GAL	PRODUCT THICKNESS	N/A FT		

((Initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
0.098 L/MIN	1248	1355	1.71 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
1253	FC	7.69	0.602	16.7	2.85	15.70	-47.0	22.77	Clear- no odor
1304	1.2	7.63	0.598	9.82	0.58	14.82	-60.9	22.90	" "
1316	1.2	7.63	0.597	8.91	0.45	15.03	-61.9	22.94	" "
1328	1.2	7.62	0.596	9.05	0.43	15.23	-69.2	23.00	slowed pump
1339	1.0	7.63	0.596	8.63	0.41	15.57	-71.1	23.03	
1347	0.75	7.63	0.597	8.27	0.40	15.56	-66.2	23.03	
1355	0.75	7.62	0.596	8.46	0.39	15.57	-70.4	23.03	
1400	—	—	— collect		Sample	—	—	—	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER	[ ] OTHER	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Intake @ 25.4 BGS

SIGNATURE:

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1400
[ ]	VFAs		
[ ]	Sulfate		
[ ]	Methane/ethene		

SPLIT Sample, BR-02 on seperate chain with 5 day TAT.
BR-02-S → 1400

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 5-14-15

SITE ID: BR-03

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1100 END 1238

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): 2.2 FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER: 10.28 FT

WELL DEPTH: 40.1 FT

PID AMBIENT AIR: N/A PPM

WELL DIAMETER: 4 IN

FINAL DEPTH TO WATER: 11.65 FT

SCREEN LENGTH: NA FT

PID WELL MOUTH: N/A PPM

DRAWDOWN: 1.37 FT

DRAWDOWN VOLUME: 0.8905 GAL

PRODUCT THICKNESS: N/A FT

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.132 L/MIN

BEGIN PURGING: 1113

END PURGING: 1232

TOTAL VOL. PURGED: 2.7 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
1117	PC	7.89	0.789	77.8	2.53	11.85	-196.3	10.55	slight orange tint - odor
1125	1.2	7.89	0.771	46.2	0.68	11.66	-192.5	10.87	
1133	1.2	7.87	0.770	19.6	0.42	11.62	-176.1	11.15	slowed pump
1141	1	7.83	0.770	12.0	0.36	11.77	-170.9	11.30	clear - no odor
1150	1	7.80	0.771	11.2	0.31	11.88	-155.6	11.35	
1159	1	7.83	0.769	7.63	0.43	12.05	-183.8	11.42	sped pump up
1206	1.1	7.83	0.771	10.15	0.43	11.91	-191.2	11.56	clear - no odor
1213	1.1	7.82	0.769	5.96	0.44	12.18	-183.1	11.67	slowed pump
1219	0.75	7.82	0.768	6.26	0.40	12.60	-192.3	11.66	clear - no odor
1225	0.75	7.81	0.771	4.95	0.39	12.84	-191.3	11.66	
1232	0.80	7.80	0.771	5.54	0.38	12.92	-188.7	11.65	clear - no odor
1235	—	—	collect sample			—	—	—	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] HIGH DENSITY POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [X] OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ 23.5 BGS

SIGNATURE:

NOTES

	Preservation	Time Collected
[X] VOC (modified list)	HCL	1235
[ ] VFAs		
[ ] Sulfate		
[ ] Methane/ethene		

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments, 2015 Semi-Annual Sampling Event
DATE: 5-14-15
SITE ID: BR-04
SITE TYPE: Monitor Well
SITE ACTIVITY: START 0940 END 1056
JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER; [ ] TOP OF PROTECTIVE CASING; [ ] OTHER
PROTECTIVE CASING STICKUP (FROM GROUND): — FT
PROTECTIVE CASING / WELL DIFFERENCE: 0.25 FT

INITIAL DEPTH TO WATER	17.68 FT	WELL DEPTH	44.2 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	17.69 FT	SCREEN LENGTH	nA FT	PID WELL MOUTH	N/A PPM	WELL INTEGRITY: CAP	YES X / NO — / N/A —
DRAWDOWN	0.01 FT	DRAWDOWN VOLUME	0.0065 GAL	PRODUCT THICKNESS	N/A FT	CASING	YES X / NO — / N/A —
						LOCKED	YES X / NO — / N/A —
						COLLAR	YES — / NO — / N/A X

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.139 L/MIN
BEGIN PURGING: 0954
END PURGING: 1047
TOTAL VOL. PURGED: 1.91 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
0956	FC	8.01	0.423	43.7	2.81	14.01	-121.9	17.68	orange tint - no odor
1007	1.2	7.49	0.686	18.4	0.45	13.85	-103.4	17.69	clear - no odor
1016	1.2	7.13	@1.317	11.8	0.33	13.88	-78.6	17.69	" "
1025	1.2	7.11	1.493	12.17	0.31	14.06	-79.0	17.69	
1033	1.2	7.11	1.455	4.93	0.24	14.00	-76.5	17.69	clear - no odor
1040	1	7.11	1.473	5.22	0.22	14.11	-76.7	17.69	" "
1047	1	7.10	1.487	8.26	0.23	14.22	-77.0	17.69	" "
1050			Collect Sample						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC; [ ] SUBMERSIBLE; [ ] OTHER
TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED; [X] HIGH DENSITY POLYETHYLENE; [ ] OTHER
TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE; [ ] STAINLESS STEEL; [X] OTHER NA
TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON; [X] OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ 26.5 BGS

SIGNATURE:

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1050
[ ]	VFAs		
[ ]	Sulfate		
[ ]	Methane/ethene		

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event
DATE: 5-14-15
SITE ID: BR-10
SITE TYPE: Monitor Well
SITE ACTIVITY: START 0830 END 0935
JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND)	— FT	PROTECTIVE CASING / WELL DIFFERENCE	0.3 FT				
INITIAL DEPTH TO WATER	17.28 FT	WELL DEPTH	47 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	17.28 FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	N/A PPM	WELL INTEGRITY: CAP / CASING / LOCKED / COLLAR	YES / NO / N/A
DRAWDOWN	0.0 FT	DRAWDOWN VOLUME	0 GAL	PRODUCT THICKNESS	N/A FT		

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
0.143 L/MIN	0839	0925	1.71 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
0843	PC	7.82	0.622	77.9	3.38	13.23	-53.4	17.28	orange tint - no odor
0850	1	7.81	0.611	17.6	0.79	13.09	-65.9	17.29	clear - no odor
0857	1	7.81	0.608	15.0	0.70	13.27	-71.2	17.28	" "
0904	1	7.82	0.608	11.7	0.56	13.35	-72.2	17.28	" "
0911	1	7.83	0.608	11.0	0.55	13.40	-74.2	17.28	
0918	1	7.84	0.609	7.71	0.57	13.32	-65.3	17.28	
0925	1	7.85	0.608	7.31	0.56	13.27	-66.6	17.28	clear - no odor
0928	—	—	collect Sample						

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER _____	[ ] OTHER _____	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Intake @ 25.5ft btoc

SIGNATURE: _____

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	0928
[ ]	VFAs		
[ ]	Sulfate		
[ ]	Methane/ethene		

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments, 2015 Semi-Annual Sampling Event
DATE: 5-13-15
SITE ID: BR-15
SITE TYPE: Monitor Well
SITE ACTIVITY: START 0745 END 1035
JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER; [ ] TOP OF PROTECTIVE CASING; [ ] OTHER
PROTECTIVE CASING STICKUP (FROM GROUND): — FT
PROTECTIVE CASING / WELL DIFFERENCE: 0.35 FT

INITIAL DEPTH TO WATER	16.94 FT	WELL DEPTH	72 FT	PID AMBIENT AIR	N/A PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	21.51 FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	N/A PPM		
DRAWDOWN	2.57 FT	DRAWDOWN VOLUME	3.855 GAL	PRODUCT THICKNESS	N/A FT		

WELL INTEGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.138 L/MIN
BEGIN PURGING: 0795
END PURGING: 1021
TOTAL VOL. PURGED: 5.25 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
0800	FC	6.82	0.667	3.1	3.81	12.92	92.3	19.06	clear - black clear
0817	2	7.34	0.648	~~2.20.52~~	0.52	12.54	-118.0	1937	clear - no odor
0832	2	7.51	0.645	1.9	0.32	12.51	-128.2	1969	" "
0846	2	7.53	0.645	1.9	0.34	12.53	-132.6	20.01	" "
0858	2	7.54	0.645	8.4	0.31	12.64	-137.3	20.31	spool pump up
0910	2	7.53	0.644	2.0	0.21	12.72	-141.9	20.62	clear - no odor
0921	2	7.55	0.644	2.1	0.22	12.84	-144.1	20.93	" "
0933	2	7.52	0.644	2.2	0.21	12.80	-144.5	21.15	slowed pump
0949	2	7.51	0.643	2.1	0.24	12.55	-145.0	21.33	clear - no odor
0957	1	7.52	0.643	2.1	0.22	12.73	-146.2	21.41	slowed pump
1007	1	7.51	0.643	2.1	0.21	12.60	-142.7	21.47	clear - no odor
1014	0.75	7.50	0.643	2.1	0.20	12.61	-143.8	21.50	
1021	0.75	7.50	0.643	2.1	0.21	12.56	-144.0	21.51	clear - no odor
1025	—	—	collect	sample	—	—	—	—	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC; [ ] SUBMERSIBLE; [ ] OTHER
TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED; [X] HIGH DENSITY POLYETHYLENE; [ ] OTHER
TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE; [ ] STAINLESS STEEL; [X] OTHER NA
TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON; [X] OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ 29.5 ftbtoc

Pre		After
1.1	ORP	0.0
128.4	Turb	126.0
1,361	Cond	1,413
7.01	pH	7.00
4.03	pH	4.01
9.88	pH	9.99
249.3	ORP	240.0

SIGNATURE:

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1025
[ ]	VFAs		
[ ]	Sulfate		
[ ]	Methane/ethene		

MS and MSD → 1025

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 5-14-15

SITE ID: QAFB-01

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1420 END 1426

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): NA FT

PROTECTIVE CASING / WELL DIFFERENCE: NA FT

INITIAL DEPTH TO WATER: NA FT

WELL DEPTH: NA FT

PID AMBIENT AIR: NA PPM

WELL DIAMETER: NA IN

FINAL DEPTH TO WATER: NA FT

SCREEN LENGTH: NA FT

PID WELL MOUTH: NA PPM

DRAWDOWN: NA FT

DRAWDOWN VOLUME: NA GAL

PRODUCT THICKNESS: NA FT

WELL INTEGRITY:	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: NA L/MIN

BEGIN PURGING: NA

END PURGING: NA

TOTAL VOL. PURGED: NA GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
	~~Used Peristaltic pump and clean tubing to collect sample from DI water~~								
	Collected from DI water								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ _____

SIGNATURE: _____

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1425
[ ]			
[ ]			
[ ]			

Q

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 5-14-15

SITE ID: QARB-01

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1427 END 1432

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): NA FT

PROTECTIVE CASING / WELL DIFFERENCE: NA FT

INITIAL DEPTH TO WATER	NA FT	WELL DEPTH	NA FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	NA IN
FINAL DEPTH TO WATER	NA FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	NA FT	DRAWDOWN VOLUME	NA GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
NA L/MIN	NA	NA	NA GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
	~~Used Peristaltic pump and clean tubing to collect sample from DI water.~~								
	Poured DI water through Clean tubing								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ _____

SIGNATURE: _____

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1430
[ ]			
[ ]			
[ ]			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING VIA BAILER

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: [illegible]

SITE ID: QATB-01

SITE TYPE: Monitor Well

SITE ACTIVITY: START [illegible] END [illegible]

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- ☐ TOP OF WELL RISER
- ☐ TOP OF PROTECTIVE CASING
- ☐ OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): NA FT

PROTECTIVE CASING / WELL DIFFERENCE: NA FT

INITIAL DEPTH TO WATER	NA FT	WELL DEPTH	NA FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	NA IN
FINAL DEPTH TO WATER	NA FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	NA FT	DRAWDOWN VOLUME	NA GAL	PRODUCT THICKNESS	NA FT		

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

WELL INTEGRITY:	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

PURGE RATE: NA L/MIN

BEGIN PURGING: NA

END PURGING: NA

TOTAL VOL. PURGED: NA GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
LAB PROVIDED									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ☐ OTHER _____

TYPE OF TUBING
- ☐ TEFLON OR TEFLON LINED
- ☐ HIGH DENSITY POLYETHYLENE
- ☐ OTHER _____

TYPE OF PUMP MATERIAL
- ☐ POLYVINYL CHLORIDE
- ☐ STAINLESS STEEL
- ☐ OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- ☐ TEFLON
- ☐ OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ [illegible]

SIGNATURE: [signature]

NOTES

		Preservation	Time Collected
X	VOC (modified list)	HCL	[illegible]

Q

OCTOBER 2015
FIELD DATA RECORDS

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/27/15

SITE ID: OB-04

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1100 END 1230

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): ____ FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.3 FT

INITIAL DEPTH TO WATER	4.20 FT	WELL DEPTH	16.45 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.12 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	2.92 FT	DRAWDOWN VOLUME	0.467 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR			✓

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.149 L/MIN

BEGIN PURGING: 1102

END PURGING: 1217

TOTAL VOL. PURGED: 2.88 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
1106	FC	6.53	0.901	7.87	7.89	16.25	-85.3	5.20	light gray - strong odor
1112	1	6.51	0.892	8.38	3.24	17.00	-95.3	5.98	clear - solvent odor
1122	2	6.56	0.918	29.8	1.90	17.41	-116.5	6.94	cloudy - odor - slowed pump
1135	2	6.62	0.960	15.2	0.94	17.18	-132.4	6.98	clear - slight odor
1142	1	6.62	0.960	15.8	0.78	17.28	-134.7	7.02	
1149	1	6.61	0.962	14.9	0.68	17.27	-128.4	7.10	
1157	1	6.60	0.979	13.2	0.54	17.14	-133.4	7.10	
1205	1	6.59	1.014	13.4	0.49	17.21	-111.9	7.10	
1211	0.75	6.58	1.037	13.4	0.48	17.29	-119.3	7.11	
1217	0.75	6.57	1.057	14.2	0.47	17.35	-123.7	7.11	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

tubing ~~Pump~~ Intake @ 14 ft btoc

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	OB-04	1220
[X]	VFA's		OB-04	1220
[ ]	Sulfate			
[ ]	Methane/Ethene			
[ ]	Duplicate			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/27/15

SITE ID: OB-06

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1350 END 1520

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): — FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.4 FT

INITIAL DEPTH TO WATER	4.05 FT	WELL DEPTH	16.45 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	5.76 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	1.71 FT	DRAWDOWN VOLUME	0.274 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR			✓

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.141 L/MIN

BEGIN PURGING: 1404

END PURGING: 1511

TOTAL VOL. PURGED: 2.45 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
1407	FC	6.80	1.114	5.18	4.84	18.32	-102.8	4.62	clear - Slight odor
1413	1	6.68	1.095	4.12	3.07	18.60	-81.4	5.30	" "
1419	1	6.67	1.028	4.42	1.63	18.47	-79.1	5.70	" "
1425	1	6.66	1.020	4.56	0.93	18.43	-74.7	5.76	slowed pump
1435	1	6.66	1.038	3.50	0.70	18.27	-96.8	5.63	clear - slight odor
1442	1	6.66	1.028	4.97	0.55	18.57	-94.1	5.71	
1449	1	6.66	1.037	4.50	0.42	18.56	-100.9	5.75	
1456	1	6.66	1.033	4.22	0.41	18.48	-103.4	5.77	
1503	1	6.67	1.033	4.65	0.39	18.51	-109.6	5.75	
1511	1	6.68	1.031	4.35	0.38	18.52	-105.4	5.75	clear - Slight odor

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER _____	[ ] OTHER _____	[X] OTHER NA	

PURGE OBSERVATIONS

tubing ~~Pump~~ Intake @ 11.5 Ft btoc

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	OB-06	1515
[X]	VFA's		OB-06	1515
[X]	Sulfate		OB-06	1515
[X]	Methane/Ethene		OB-06	1515
[ ]	Duplicate			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/27/15

SITE ID: OB-08

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1522 END

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): — FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.35 FT

INITIAL DEPTH TO WATER	6.21 FT	WELL DEPTH	25.3 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	8.41 FT	SCREEN LENGTH	10 FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	2.20 FT	DRAWDOWN VOLUME	0.352 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR			✓

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE	BEGIN PURGING	END PURGING	TOTAL VOL. PURGED
0.131 L/MIN	15.31	1636	2.22 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
1535	FC	6.94	0.962	4.43	2.25	17.57	-110.6	6.72	Clear - slight odor
1543	1	6.96	1.000	2.81	2.29	17.58	-103.0	7.61	
1550	1	6.96	1.001	3.30	1.42	17.55	-96.3	8.25	Slowed pump -
1557	1	6.96	1.000	4.46	0.88	17.52	-103.9	8.35	clear - slight odor
1604	1	6.96	1.000	6.04	0.64	17.52	-107.5	8.50	" "
1612	1	6.97	1.000	7.20	0.55	17.48	-103.1	8.48	" "
1620	1	6.97	1.001	6.07	0.48	17.40	-103.5	8.44	clear - no odor
1628	1	6.98	1.002	5.64	0.41	17.33	-102.4	8.43	" "
1636	1	6.98	1.003	5.46	0.38	17.27	-104.1	8.42	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER _____	[ ] OTHER _____	[X] OTHER NA	

PURGE OBSERVATIONS

tubing intake @ 2 oft btoc

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	OB-08	1640
[X]	VFA's		OB-08	1640
[ ]	Sulfate			
[ ]	Methane/Ethene			
[ ]	Duplicate			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/27/15

SITE ID: TW-04

SITE TYPE: Monitor Well

SITE ACTIVITY: START 0900 END 1057

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): 2.6 FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.25 FT

INITIAL DEPTH TO WATER	10.56 FT	WELL DEPTH	17.3 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	13.64 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	3.08 FT	DRAWDOWN VOLUME	0.493 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.12 L/MIN

BEGIN PURGING: 0924

END PURGING: 1034

TOTAL VOL. PURGED: 2.21 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
0928	FC	6.88	0.908	1.10	8.55	14.00	-59.4	11.62	clear- no odor
0935	1	6.94	0.911	1.42	6.27	14.76	-81.8	12.42	" "
0943	1	6.94	0.910	0.98	3.35	14.80	-87.6	13.02	" "
0952	1	6.94	0.905	0.77	2.84	14.54	-89.7	13.13	" "
1002	1	6.96	0.900	0.85	2.60	14.63	-87.8	13.21	clear- no odor
1009	1	6.98	0.894	0.40	2.49	15.09	-85.1	13.58	
1016	1	6.98	0.887	0.46	2.14	15.33	-83.9	13.79	
1025	1	6.99	0.876	0.46	1.86	15.08	-87.7	13.75	
1034	1	6.99	0.871	0.96	1.55	15.03	-90.2	13.65	clear- no odor

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER _____	[ ] OTHER _____	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing ~~Pump~~ Intake @ 14.8Ft btoc

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	TW-04	1040
[X]	VFA's		TW-04	1040
[X]	Sulfate		TW-04	1040
[X]	Methane/Ethene		TW-04	1040
[X]	~~Duplicate~~			

pumping as low as possible.

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/28/15

SITE ID: TW-09

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1420 END 1530

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): — FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.3 FT

INITIAL DEPTH TO WATER	11.18 FT	WELL DEPTH	17.70 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	11.19 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	.01 FT	DRAWDOWN VOLUME	0.002 GAL	PRODUCT THICKNESS	NA FT		

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

PURGE RATE: 0.102 L/MIN

BEGIN PURGING: 1426

END PURGING: 1520

TOTAL VOL. PURGED: 1.43 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
1431	FC	7.06	0.744	1.64	1.97	16.96	-63.4	11.20	clear-no odor
1440	1	7.04	0.743	1.57	0.90	17.16	-75.3	11.22	
1449	1	7.05	0.747	0.81	0.66	17.31	-82.3	11.23	
1458	1	7.05	0.763	0.81	0.53	17.18	-85.5	11.23	slowed pump
1509	1	7.04	0.766	0.97	0.45	17.07	-94.1	11.20	clear-no odor
1520	1	7.04	0.767	0.52	0.44	17.03	-94.6	11.19	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

Tubing Pump Intake @ 15 ft btoc

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	TW-09	1523
[ ]	VFA's			
[ ]	Sulfate			
[ ]	Methane/Ethene			
[ ]	Duplicate			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/28/15 10/29/15

SITE ID: TW-17

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1202 END 1315

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): 2 FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.25 FT

INITIAL DEPTH TO WATER	8.02 FT	WELL DEPTH	17.04 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	10.10 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	2.08 FT	DRAWDOWN VOLUME	0.333 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.196 / 0.133 L/MIN

BEGIN PURGING: 1208 / 0802

END PURGING: 1308 / 844

TOTAL VOL. PURGED: 3.06 / 1.47 / 4.53 GAL

(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
1211	FC	6.78	0.924	7.70	5.05	14.73	-60.2	8.60	clear - slight odor
1221	2	6.75	0.939	7.72	2.73	15.10	-69.9	10.28	
1231	2	6.74	0.943	6.75	1.06	15.12	-85.2	11.15	
1242	2	6.74	0.944	6.46	0.62	15.22	-97.7	12.00	
1252	2	6.74	0.953	8.91	0.53	15.35	-99.7	12.85	
1302	2	6.71	0.974	12.9	0.62	15.37	-98.4	14.30	
1308	1.2	6.71	0.979	14.2	0.92	15.43	-100.5	14.80	Dry - cloudy slight odor
0800	~~FC~~	~~6.61~~	~~1.000~~					7.35	
0807	FC	6.65	1.000	14.4	3.02	14.59	-75.9	8.07	
0815	—	collect	sample	—	—	—	—	—	—
0829	FC	6.77	0.997	15.7	3.05	14.11	-79.4	9.45	clear - slight odor
0836	1	6.75	0.998	14.2	2.70	14.05	-87.9	9.80	
0844	1	6.75	0.993	14.0	1.35	14.17	-84.4	10.10	

10/28

10/29

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (If applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER	[ ] OTHER	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Pump Intake @ 14.75 ft btoc

SIGNATURE:

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	TW-17	0815
[X]	VFA's		TW-17	0815
[X]	Sulfate		TW-17	0815
[X]	Methane/Ethene		TW-17	0815
[ ]	Duplicate			

10/29/15

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/28/15

SITE ID: TW-20

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1315 END 1418

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): 2.3 FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.27 FT

INITIAL DEPTH TO WATER	12.61 FT	WELL DEPTH	17.22 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	13.04 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	0.43 FT	DRAWDOWN VOLUME	0.069 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.165 L/MIN

BEGIN PURGING: 1321

END PURGING: 1413

TOTAL VOL. PURGED: 1.55 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
1325	FC	7.13	0.903	1.38	2.59	14.73	-28.2	12.79	clear - No odor
1335	1	7.08	0.871	1.16	1.12	14.94	-27.6	12.90	
1344	1	7.08	0.842	0.77	0.80	15.03	-23.4	12.97	
1353	1	7.07	0.836	0.72	0.65	15.09	-20.2	13.01	
1401	1	7.07	0.833	0.62	0.63	15.20	-14.3	13.03	
1407	0.75	7.07	0.832	0.46	0.58	15.27	-11.9	13.03	
1413	0.75	7.07	0.830	0.56	0.55	15.27	-9.3	13.03	clear - No odor

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER _____	[ ] OTHER _____	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Pump Intake @ 14.75 ft btoc

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
			TW-20	
[X]	VOC (modified list)	HCL	~~TW-15~~	1415
[ ]	VFA's			
[ ]	Sulfate			
[ ]	Methane/Ethene			
[ ]	Duplicate			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/28/15

SITE ID: W-5

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1532 END 1710

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): ~~ FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.25 FT

INITIAL DEPTH TO WATER	5.10 FT	WELL DEPTH	21.8 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	2 IN
FINAL DEPTH TO WATER	7.43 FT	SCREEN LENGTH	5 FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	2.33 FT	DRAWDOWN VOLUME	0.373 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.104 L/MIN

BEGIN PURGING: 1536

END PURGING: 1651

TOTAL VOL. PURGED: 2.02 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
1541	FC	6.71	1.199	2.70	2.60	15.92	-65.7	5.83	clear - slight odor
1558	2	6.70	1.198	9.62	0.81	15.82	-59.8	7.10	
1613	2	6.70	1.204	4.94	0.57	15.86	-56.8	7.75	slowed pump
1630	1	6.68	1.216	2.12	0.50	15.93	-58.3	7.52	clear - no odor
1637	0.75	6.69	1.221	2.19	0.41	15.90	-54.6	7.48	
1644	0.75	6.68	1.223	3.40	0.37	15.82	-51.4	7.45	
1651	0.75	6.68	1.221	4.66	0.35	15.81	-49.7	7.43	clear - no odor

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

Tubing ~~Pump~~ Intake @ 19.3 Ft btoc

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	W-5	1700
[X]	VFA's		W-5	1700
[X]	Sulfate		W-5	1700
[X]	Methane/Ethene		W-5	1700
[X]	Duplicate		Dup-01	1700

Dup-01 → VOC's only

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/29/15

SITE ID: BR-01

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1500 END 1512

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): 2.3 FT

PROTECTIVE CASING / WELL DIFFERENCE: NA FT

INITIAL DEPTH TO WATER	12.15 FT	WELL DEPTH	38.6 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	12.31 FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	0.16 FT	DRAWDOWN VOLUME	0.104 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR	✓		

((Initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.127 L/MIN

BEGIN PURGING: 1407

END PURGING: 1504

TOTAL VOL. PURGED: 1.88 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
1410	FC	7.25	0.994	8.23	3.98	13.79	-108.0	12.27	clear - slight odor
1420	1.2	7.13	0.961	5.28	1.05	13.67	-105.8	12.38	
1430	1.2	7.09	0.984	3.78	0.96	13.66	-98.8	12.41	clear - no odor
1440	1.2	7.04	1.003	2.93	0.66	13.66	-89.8	12.43	slowed pump
1448	0.75	7.01	1.009	2.87	0.65	13.47	-90.0	12.40	
1456	0.75	7.01	1.008	2.17	0.61	13.43	-89.8	12.35	clear - no odor
1504	0.75	7.01	1.010	2.77	0.59	13.30	-89.5	12.33	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (If applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

Tubing ~~Pump~~ Intake @ 23.5 ft btoc

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	BR-01	1507
[ ]	VFA's			
[ ]	Sulfate			
[ ]	Methane/Ethene			
[ ]	Duplicate			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/29/15

SITE ID: BR-02

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1225 END 1356

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): ____ FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.45 FT

INITIAL DEPTH TO WATER	22.27 FT	WELL DEPTH	44 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	22.61 FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	0.34 FT	DRAWDOWN VOLUME	0.221 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.089 L/MIN

BEGIN PURGING: 1234

END PURGING: 1345

TOTAL VOL. PURGED: 1.65 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
1239	FC	7.68	0.556	15.5	1.84	14.24	-164.2	22.38	cloudy - some fines/ no odor
1252	1.2	7.66	0.552	9.31	0.51	14.12	-157.4	22.46	clear - no odor
1303	1.2	7.66	0.546	9.10	0.38	14.27	-175.2	22.52	slowed pump
1314	1	7.68	0.546	7.34	0.37	14.29	-188.9	22.55	clear - no odor
1325	1	7.68	0.550	5.33	0.33	14.27	-186.6	22.60	slowed pump
1335	0.75	7.68	0.554	5.54	0.35	14.03	-190.6	22.60	
1345	0.75	7.67	0.555	4.65	0.34	14.03	-189.0	22.60	clear - no odor

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER _____	[ ] OTHER _____	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Pump Intake @ 25.4 ft BGS

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	BR-02	1350
[ ]	VFA's			
[ ]	Sulfate			
[ ]	Methane/Ethene			
[ ]	Duplicate			

collect SPLIT sample BR-025 — 1350

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/29/15

SITE ID: BR-03

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1052 END 1223

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): 2.2 FT

PROTECTIVE CASING / WELL DIFFERENCE: — FT

INITIAL DEPTH TO WATER	9.52 FT	WELL DEPTH	40.1 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	~~10.43~~ ~~9.52~~ FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	0.91 FT	DRAWDOWN VOLUME	0.592 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.104 L/MIN

BEGIN PURGING: 1057

END PURGING: 1216

TOTAL VOL. PURGED: 2.14 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
1101	FC	7.81	0.688	33.3	2.23	14.12	-173.0	9.77	Orange tint - no odor
1110	1.2	7.81	0.691	21.1	0.72	13.91	-198.4	10.08	
1120	1.2	7.61	0.689	9.85	0.49	14.16	-189.4	10.31	clear - no odor
1130	1.2	7.80	0.684	8.98	0.38	13.99	-177.3	10.48	
1140	1.2	7.77	0.693	8.21	0.35	14.00	-193.7	10.61	slowed Pump
1152	1	7.65	0.748	5.63	0.35	13.26	-173.9	10.55	clear - no odor
1204	1	7.61	0.757	6.02	0.35	13.53	-167.4	10.49	
1216	1	7.60	0.767	6.86	0.35	13.78	-165.8	10.45	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

Tubing Pump Intake @ 23.5 Ft BGS

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	BR-03	1220
[ ]	VFA's			
[ ]	Sulfate			
[ ]	Methane/Ethene			
[ ]	Duplicate			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/29/15

SITE ID: BR-04

SITE TYPE: Monitor Well

SITE ACTIVITY: START 0947 END 1046

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): — FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.25 FT

INITIAL DEPTH TO WATER	17.81 FT	WELL DEPTH	44.2 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	4 IN
FINAL DEPTH TO WATER	17.82 FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	0.01 FT	DRAWDOWN VOLUME	0.007 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR			X

((Initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.145 L/MIN

BEGIN PURGING: 0951

END PURGING: 1039

TOTAL VOL. PURGED: 1.82 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
0955	FC	7.37	0.891	27.3	2.38	14.50	-131.0	17.81	Orange tint - no odor
1003	1.2	7.16	1.223	13.2	0.72	14.26	-120.2	17.81	
1011	1.2	7.12	1.293	9.30	0.65	14.05	-109.1	17.82	clear - no odor
1018	1	7.11	1.326	7.53	0.69	13.98	-97.1	17.82	
1025	1	7.10	1.373	8.18	0.67	13.93	-87.7	17.82	
1032	1	7.10	1.392	5.74	0.66	13.83	-88.7	17.82	
1039	1	7.10	1.409	4.09	0.65	13.78	-89.5	17.82	clear - no odor

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER _____	[ ] OTHER _____	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Pump Intake @ 26.5 Ft BGS

SIGNATURE: _____

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	BR-04	1042
[ ]	VFA's			
[ ]	Sulfate			
[ ]	Methane/Ethene			
[ ]	Duplicate			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/29/15

SITE ID: BR-10

SITE TYPE: Monitor Well

SITE ACTIVITY: START 0850 END

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): — FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.3 FT

INITIAL DEPTH TO WATER	17.42 FT	WELL DEPTH	47 FT	PID AMBIENT AIR	NA PPM	WELL DIAMETER	6 IN
FINAL DEPTH TO WATER	17.42 FT	SCREEN LENGTH	NA FT	PID WELL MOUTH	NA PPM		
DRAWDOWN	0 FT	DRAWDOWN VOLUME	0 GAL	PRODUCT THICKNESS	NA FT		

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR			✓

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.158 L/MIN

BEGIN PURGING: 0854

END PURGING: 0937

TOTAL VOL. PURGED: 1.77 GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
0859	FC	7.68	0.541	33.5	2.51	14.09	-153.4	17.42	Orange tint - NO odor
0906	1	7.72	0.536	15.6	0.98	14.25	-165.7	17.42	" "
0913	1	7.72	0.534	8.77	0.67	14.55	-189.3	17.42	clear - no odor
0919	1	7.78	0.535	10.6	0.57	14.66	-209.5	17.42	
0925	1	7.81	0.537	6.99	0.49	14.72	-224.9	17.42	
0931	1	7.82	0.538	4.42	0.47	14.67	-227.0	17.42	
0937	1	7.83	0.538	6.60	0.45	14.81	-223.4	17.42	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL (if applicable)
[X] PERISTALTIC	[ ] TEFLON OR TEFLON LINED	[ ] POLYVINYL CHLORIDE	[ ] TEFLON
[ ] SUBMERSIBLE	[X] HIGH DENSITY POLYETHYLENE	[ ] STAINLESS STEEL	[X] OTHER NA
[ ] OTHER	[ ] OTHER	[X] OTHER NA	

PURGE OBSERVATIONS

Tubing Intake @ 25.5 Ft btoc

SIGNATURE:

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL	BR-10	0940
[ ]	VFA's			
[ ]	Sulfate			
[ ]	Methane/Ethene			
[ ]	Duplicate			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/28/15

SITE ID: BR-15

SITE TYPE: Monitor Well

SITE ACTIVITY: START 0850 END 1200

JOB NUMBER: 3031052006.37

WATER LEVEL

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING [ ] OTHER

PROTECTIVE CASING STICKUP (FROM GROUND): — FT

PROTECTIVE CASING / WELL DIFFERENCE: 0.35 FT

INITIAL DEPTH TO WATER: 19.65 FT

WELL DEPTH: 72 FT

PID AMBIENT AIR: NA PPM

WELL DIAMETER: 6 IN

FINAL DEPTH TO WATER: 21.39 FT

SCREEN LENGTH: NA FT

PID WELL MOUTH: NA PPM

DRAWDOWN: 1.74 FT

DRAWDOWN VOLUME: 0.278 GAL

PRODUCT THICKNESS: NA FT

WELL INTEGRITY:	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR			✓

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-inch})

PURGE RATE: 0.121 L/MIN

BEGIN PURGING: 908

END PURGING: 1150

TOTAL VOL. PURGED: 5.10 GAL (purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOL Purged (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DO (mg/L)	TEMPERATURE (°C)	ORP (mV)	WATER LEVEL	Comments
0913	FC	7.25	0.502	12.1	4.71	12.41	-31.8	19.73	clear – Slight odor
0930	2	7.47	0.527	3.92	0.96	12.83	-112.0	19.82	Strong odor
0945	2	7.53	0.528	2.29	0.59	13.14	-146.8	19.91	"
1002	2	7.60	0.439	2.54	0.54	13.07	-156.0	20.11	"
1019	2	7.71	0.336	2.43	0.44	13.18	-163.9	20.35	Clear – Slight odor
1027	2	7.95	0.261	2.01	0.41	14.33	-221.7	20.64	Increased pump speed
1035	2	8.13	0.204	1.91	0.30	14.00	-229.6	20.90	Slowed pump
1053	2	8.05	0.204	1.93	0.31	13.57	-152.8	21.11	Clear – Slight odor
1110	2	7.87	0.237	1.96	0.34	13.67	-157.8	21.34	Slowed pump
1120	0.75	7.84	0.275	1.83	0.31	13.22	-162.9	21.35	clear – Slight odor
1130	0.75	7.71	0.359	1.81	0.35	13.03	-180.8	21.37	
1140	0.75	7.68	0.364	1.78	0.36	12.82	-177.4	21.37	
1150	0.75	7.66	0.368	1.64	0.36	12.75	-174.7	21.38	Clear – Slight odor

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] PERISTALTIC [ ] SUBMERSIBLE [ ] OTHER

TYPE OF TUBING: [ ] TEFLON OR TEFLON LINED [X] HIGH DENSITY POLYETHYLENE [ ] OTHER

TYPE OF PUMP MATERIAL: [ ] POLYVINYL CHLORIDE [ ] STAINLESS STEEL [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable): [ ] TEFLON [X] OTHER NA

PURGE OBSERVATIONS

Tubing ~~Pump~~ Intake @ 29.5Ft btoc

SIGNATURE:

NOTES

		Preservation	Sample Name	Time Collected
[X]	VOC (modified list)	HCL		1155
[ ]	VFA's			
[ ]	Sulfate			
[ ]	Methane/Ethene			
[ ]	Duplicate			

MS/MSD 1155

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/29/15

SITE ID: QAFB-01

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1542 END 1547

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): NA FT

PROTECTIVE CASING / WELL DIFFERENCE: NA FT

INITIAL DEPTH TO WATER: NA FT

WELL DEPTH: NA FT

PID AMBIENT AIR: NA PPM

WELL DIAMETER: NA IN

FINAL DEPTH TO WATER: NA FT

SCREEN LENGTH: NA FT

PID WELL MOUTH: NA PPM

DRAWDOWN: NA FT

DRAWDOWN VOLUME: NA GAL

PRODUCT THICKNESS: NA FT

((Initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-Inch})

WELL INTEGRITY:	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

PURGE RATE: NA L/MIN

BEGIN PURGING: NA

END PURGING: NA

TOTAL VOL. PURGED: NA GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
~~Used Peristaltic pump and clean tubing to collect sample from DI water~~									
	Collected from DI water								

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ _____

SIGNATURE: _____

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1545
[ ]			
[ ]			
[ ]			

Q

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: 10/29/15

SITE ID: QARB-01

SITE TYPE: Monitor Well

SITE ACTIVITY: START 1547 END 1553

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [ ] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING
- [ ] OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): NA FT

PROTECTIVE CASING / WELL DIFFERENCE: NA FT

INITIAL DEPTH TO WATER: NA FT

WELL DEPTH: NA FT

PID AMBIENT AIR: NA PPM

WELL DIAMETER: NA IN

FINAL DEPTH TO WATER: NA FT

SCREEN LENGTH: NA FT

PID WELL MOUTH: NA PPM

WELL INTEGRITY:

	YES	NO	N/A
CAP			
CASING			
LOCKED			
COLLAR			

DRAWDOWN: NA FT

DRAWDOWN VOLUME: NA GAL

PRODUCT THICKNESS: NA FT

((initial - final) x 0.16 (2-inch) or x 0.65 (4-inch) or x 1.5 (6-inch))

PURGE RATE: NA L/MIN

BEGIN PURGING: NA

END PURGING: NA

TOTAL VOL. PURGED: NA GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
~~Used Peristaltic pump and clean tubing to collect sample from DI water~~									
Paired DI water over WL meter									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] OTHER _____

TYPE OF TUBING
- [ ] TEFLON OR TEFLON LINED
- [X] HIGH DENSITY POLYETHYLENE
- [ ] OTHER _____

TYPE OF PUMP MATERIAL
- [ ] POLYVINYL CHLORIDE
- [ ] STAINLESS STEEL
- [X] OTHER NA

TYPE OF BLADDER MATERIAL (If applicable)
- [ ] TEFLON
- [X] OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ _____

SIGNATURE: _____

NOTES

		Preservation	Time Collected
[X]	VOC (modified list)	HCL	1550
[ ]			
[ ]			
[ ]			

AMEC E&I, Inc.

FIELD DATA RECORD - GROUNDWATER SAMPLING

PROJECT: Former Taylor Instruments 2015 Semi-Annual Sampling Event

DATE: ✓

SITE ID: QATB-01

SITE TYPE: Monitor Well

SITE ACTIVITY: START ✓ END ✓

JOB NUMBER: 3031052006.37

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- ☐ TOP OF WELL RISER
- ☐ TOP OF PROTECTIVE CASING
- ☐ OTHER _____

PROTECTIVE CASING STICKUP (FROM GROUND): NA FT

PROTECTIVE CASING / WELL DIFFERENCE: NA FT

INITIAL DEPTH TO WATER: NA FT

WELL DEPTH: NA FT

PID AMBIENT AIR: NA PPM

WELL DIAMETER: NA IN

FINAL DEPTH TO WATER: NA FT

SCREEN LENGTH: NA FT

PID WELL MOUTH: NA PPM

WELL INTEGRITY:

	YES	NO	N/A
CAP	___	___	___
CASING	___	___	___
LOCKED	___	___	___
COLLAR	___	___	___

DRAWDOWN: NA FT

DRAWDOWN VOLUME: NA GAL

PRODUCT THICKNESS: NA FT

((initial - final) x 0.16 {2-inch} or x 0.65 {4-inch} or x 1.5 {6-Inch})

PURGE RATE: NA L/MIN

BEGIN PURGING: NA

END PURGING: NA

TOTAL VOL. PURGED: NA GAL
(purge rate (L/min) x duration (min) x 0.26 gal/L)

PURGE DATA

Time	VOLUME PURGED (L)	pH (units)	SpC (cond) (mS/cm)	TURBIDITY (NTU)	DISSOLVED O_2 (mg/L)	TEMPERATURE (°C)	REDOX POTENTIAL (mV)	WATER LEVEL	Comments
LAB PROVIDED									

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- ☐ PERISTALTIC
- ☐ SUBMERSIBLE
- ☐ OTHER _____

TYPE OF TUBING
- ☐ TEFLON OR TEFLON LINED
- ☐ HIGH DENSITY POLYETHYLENE
- ☐ OTHER _____

TYPE OF PUMP MATERIAL
- ☐ POLYVINYL CHLORIDE
- ☐ STAINLESS STEEL
- ☐ OTHER NA

TYPE OF BLADDER MATERIAL (if applicable)
- ☐ TEFLON
- ☐ OTHER NA

PURGE OBSERVATIONS

Tubing Intake @ _____

SIGNATURE: _____

NOTES

		Preservation	Time Collected
X	VOC (modified list)	HCL	✓

Q

APPENDIX F

WELL CONSTRUCTION INFORMATION

Appendix F
Well Construction Information

2015 Annual Progress Report
and Remedial Progress Evaluation
Former Taylor Instruments Site
Rochester, New York

						Screen Interval		Survey Coordinates			Well Material	Completion		
Well ID	Date Installed	Well Purpose/Type	Well Location	Boring Depth	Well Depth	Top	Bottom	Easting	Northing	Elevation	Riser/Screen	Flush-mount	Vault	Stick-up
BR-01	09/02/97	Monitor	Perimeter	42.2	42.2	NA	NA	750364.06	1150086.89	531.92	Stainless / Open	X		
BR-02	09/02/97	Monitor	Perimeter	44.0	44.0	NA	NA	750541.81	1149964.51	532.39	Stainless / Open	X		
BR-03	09/02/97	Monitor	Perimeter	40.1	40.1	NA	NA	750552.93	1149641.68	536.32	Stainless / Open			X
BR-04	09/03/97	Monitor	South Source	44.2	44.2	NA	NA	750322.96	1149422.13	532.68	Stainless / Open	X		
BR-10	07/28/00	Monitor	South Source	47.0	47.0	NA	NA	750426.90	1149411.76	532.29	Iron / Open	X		
BR-15	07/26/00	Monitor	North Source	72.0	72.0	NA	NA	750293.39	1149980.43	531.69	Iron / Open	X		
OB-04	09/05/97	Monitor	South Source	17.5	17.5	2.5	17.5	750329.65	1149422.19	532.80	PVC	X		
OB-06	07/19/00	Monitor	South Source	17.0	17.0	6.8	16.8	750421.89	1149461.50	532.60	PVC	X		
OB-08	07/28/00	Monitor	North Source	25.5	25.3	15.3	25.1	750279.00	1149957.45	531.64	PVC	X		
TW-04	03/15/96	Monitor	Perimeter	17.5	17.3	12.3	17.3	750552.18	1149648.54	536.34	PVC			X
TW-09	03/30/96	Monitor	Perimeter	16.0	16.0	11.0	16.0	750542.22	1149971.84	532.30	PVC	X		
TW-17	03/13/96	Monitor	Perimeter	15.0	15.0	10.0	15.0	750373.39	1150088.34	531.86	PVC			X
TW-20	03/13/96	Monitor	Perimeter	15.0	15.0	10.0	15.0	750547.88	1150118.75	532.42	PVC			X
W-5	09/15/82	Monitor	Perimeter	24.0	20.5	15.5	20.5	750248.88	1150056.27	531.52	PVC	X		

Prepared by/Date: KJD 12/15/10
Checked by/Date: CRW 1/18/11