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June 24, 2016

Mr. Kim Caulk – Hydrogeologist
North Carolina Department of Environmental Quality
Division of Waste Management-Superfund Section
Inactive Hazardous Sites Branch-REC Program
217 West Jones Street
Raleigh, North Carolina 27603

Subject: **2015 Annual Remedial Progress Report**
Former Varco-Pruden Buildings, Inc.
Kernersville, North Carolina
Site ID No.: NCD053485991
Antea USA of North Carolina, Inc. Project No.: E040957841

Dear Mr. Caulk:

Attached please find the 2015 Annual Remedial Progress Report for the above referenced site. If you have any questions, please feel free to contact me at 704-904-9753.

Sincerely,
Antea USA of North Carolina, Inc.

Scott A. Recker, P.G., RSM
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cc: Mr. Bill Perry, Rocket Properties
Mr. Walter Galacki, SPX
Mr. Shiva Kallur, AIG Insurance.

2015 Annual Remedial Progress Report

Former Varco-Pruden Buildings, Inc.
Kernersville, North Carolina
Site ID No. NCD053485991

Antea USA of North Carolina Project No. E040957841
June 24, 2016

Prepared for:
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2015 Annual Remedial Progress Report

Former Varco-Pruden Buildings, Inc.
Kernersville, North Carolina
Site ID No. NCD053485991
Antea USA of NC Project No. E040957841

1.0 INTRODUCTION

Antea USA of North Carolina, Inc. (Antea USA of NC), on behalf of SPX Corporation (SPX), submits this Remedial Progress Report to the North Carolina Department of Environmental Quality (NCDEQ), Inactive Hazardous Sites Branch (IHSB) regarding groundwater and surface water monitoring activities conducted at the referenced facility (the Site) on December 7-8, 2015. This report is pursuant to the proposed remedies and objectives as outlined in the November 2002 Remedial Action Plan (RAP) and is the annual report required during the 13th year of RAP implementation. The *Remediating Party Document Certification Statement* and the *Registered Site Manager Document Certification Statement* are included in **Appendix A**.

This Remedial Progress Report was prepared in accordance with the Registered Environmental Consultant (REC) program rules (15A NCAC 13C .0300) and the *Registered Environmental Consultant Program Implementation Guidance, October 2015* (Branch Guidance). Field and laboratory quality assurance and quality control (QA/QC) procedures are included as **Appendix B**.

2.0 ACTIVITIES PERFORMED DURING THIS PERIOD

The following tasks were completed during the reporting period:

- The access agreement to the adjacent Rocket Properties was renewed and the final agreement executed on November 17, 2015
- Depth-to-groundwater was measured at nine (9) monitoring wells, MW-02 through MW-10 on December 7, 2015. Monitoring well MW-01 was destroyed and could not be gauged.
- Groundwater samples were collected from seven (7) monitoring wells, MW-02, MW-03, MW-05, MW-06, MW-07, MW-08, and MW-10 on December 7, 2015. Monitoring well MW-01 was destroyed and could not be sampled.
- Surface water samples were collected from four (4) monitoring points, SW00100 through SW00400 on December 7-8, 2015.
- Water supply well samples were collected from three (3) residences, 229, 241, and 249 Perry Road on December 8, 2015

For reference purposes, a Topographic Location Map and a Site Map are included as **Figures 1** and **2**, respectively.

3.0 GROUNDWATER ELEVATIONS

Depth-to-groundwater measurements were collected from monitoring wells MW-02 through MW-10 on December 7, 2015. Groundwater elevations were calculated from this data and are summarized in **Table 1.**

Groundwater elevation data collected from the monitoring wells were used to prepare a Groundwater Elevation Contour Map (**Figure 3**). Review of **Figure 3** indicates that the general direction of groundwater flow was to the northwest towards an unnamed tributary discharging to Kernersville Lake. The direction of groundwater flow was consistent with flow directions inferred from data obtained during previous monitoring events.

4.0 GROUNDWATER CHEMISTRY

Groundwater samples were collected from monitoring wells MW-02, MW-03, MW-05, MW-06, MW-07, MW-08, and MW-10 on December 7, 2015. The samples were submitted to Pace Analytical Services, Inc. (Pace) for laboratory analysis. Groundwater samples collected from monitoring wells MW-02, MW-03, MW-05, MW-06, MW-07, and MW-08 were analyzed for volatile organic compounds (VOCs) using EPA Method 8260, 1,4-Dioxane using EPA Method 8260 SIM, semi-volatile organic compounds (SVOCs) using EPA Method 8270, methane using Method RSK 175, total iron using EPA Method 200.7, nitrate using EPA Method 353.2, sulfate using EPA Method 300.0, and ferric and ferrous iron using Standard Method 3500-Fe D#4. The groundwater sample collected from monitoring well MW-10 was not analyzed for nitrite, sulfide, ferrous or ferric iron, manganese, chloride, or alkalinity per the current Access Agreement with the adjacent Rocket Properties, LLC parcel. The groundwater sample collected from monitoring well MW-10 was also not analyzed for SVOCs, 1,4-Dioxane and only the following target compounds from the VOC analysis (EPA Method 8260) were reported per the current Access Agreement:

- Tetrachloroethene (PCE)
- Trichloroethene (TCE)
- 1,1-Dichloroethene (1,1-DCE)
- *cis*-1,2-Dichloroethene (*cis*-1-2-DCE)
- *trans*-1,2-Dichloroethene (*trans*-1,2-DCE)
- Vinyl Chloride

Groundwater sampling and analysis were performed in accordance with Branch Guidance. Quality Assurance/Quality Control (QA/QC) sampling included an equipment blank (Equip Blank) for VOCs and SVOCs from the decontaminated sampling pump, a duplicate groundwater sample (DUP-1) from monitoring well MW-08, a duplicate surface water sample (DUP-SW) from surface water sample location SW00100, a duplicate water supply well sample (DUP-Perry Rd), and a trip blank (Trip Blank) for VOCs.

The groundwater analytical data from the December 2015 sampling event are summarized in **Table 2**. Analytical results indicate that TCE was detected in the groundwater sample collected from monitoring well MW-07 at a concentration that exceeded the groundwater remediation goal which corresponds to the North Carolina groundwater quality standard (2L Standard) of 3.0 micrograms per liter (µg/l). In addition, PCE was detected in the groundwater samples collected from monitoring wells MW-02, MW-03, MW-06, MW-07, MW-08, and MW-10 at concentrations that exceeded the 2L Standard of 0.7 µg/L. Concentrations of TCE and PCE for the December 2015 groundwater sampling event are presented as **Figures 4** and **5**, respectively. Concentration over time graphs for constituents exceeding groundwater remediation goals detected in monitoring wells MW-07, MW-08, and MW-10 are presented as **Figures 6, 7**, and **8**, respectively.

The laboratory analytical report (with Level III QA/QC documentation in accordance with Branch Guidance), including the Chain-of-Custody Record, from the December 7-8, 2015, sampling events is included in **Appendix C**. Groundwater sampling records are included in **Appendix D**. Historical groundwater analytical data, inclusive from January 11, 1996, through December 8, 2015, are summarized in **Appendix E**.

5.0 SURFACE WATER CHEMISTRY

Surface water samples were collected from monitoring locations SW00100, SW00200, SW00300, and SW00400 on December 7-8, 2015. Sampling at downstream monitoring location SW00400 began in July 2004 following PCE detection at the upgradient SW00200 location. The samples were submitted to Pace for analysis of VOCs using EPA Method 8260. Only the following target compounds from the VOC analysis (EPA Method 8260) were reported for surface water monitoring locations SW00100, SW00200 and SW00300 per the current Access Agreement:

- PCE
- TCE
- 1,1-DCE
- *cis*-1,2-DCE
- *trans*-1,2-DCE
- Vinyl Chloride

Surface water sampling and analysis were performed in accordance with Branch Guidance. QA/QC sampling included a duplicate surface water sample from surface water location SW00100 (for VOCs only). The analytical data from the December 2015 surface water sampling event are summarized in **Table 3**. No VOCs were detected in the downstream surface water sample SW00400 at concentrations above the laboratory method detection limits. Analytical results indicate that PCE was detected in the surface water samples collected from locations SW00100 and SW00200 at concentrations that exceeded the surface water remediation goal which corresponds to the North Carolina surface water quality standard (2B Standard) of 0.7 µg/L. The concentrations of PCE detected during the December 2015 surface water sampling event are presented as **Figure 9**. Concentrations over time graphs for constituents historically exceeding surface water remediation goals detected in SW00100, SW00200, and SW00300 are presented as **Figures 10, 11,** and **12,** respectively.

The analytical report (with Level III QA/QC documentation in accordance with Branch Guidance), including the Chain-of-Custody Record, from the December 2015, sampling event is included in **Appendix C**. Surface water sampling records are included in **Appendix F**. Historical analytical surface water data, inclusive from October 5, 2000, through December 8, 2015, are summarized in **Appendix G**.

6.0 WATER SUPPLY WELL CHEMISTRY

Water supply well samples were collected from residences at 229, 241 and 249 Perry Road on December 8, 2015. Water supply well samples from the December 2015 sampling event were shipped to Pace for analysis of VOCs using EPA Method 8260 and bis (2-ethylhexyl) phthalate using EPA Method 8270. The QA/QC sampling included a duplicate water supply well sample (Duplicate-WSW) from the water supply well located at 241 Perry Road (for VOCs and SVOCs). Samples collected from the water supply wells did not contain targeted compounds above method detection limits. Locations of water supply wells within one-half mile of the Site are presented in **Figure 13**. The analytical report (with Level III QA/QC documentation in accordance with Branch Guidance), including the Chain-of-Custody Record, from the May 30, 2013 sampling event is included in **Appendix C**.

7.0 NATURAL ATTENUATION EVALUATION

Natural attenuation data including total iron, ferric/ferrous iron, nitrate, sulfate, and methane were collected from groundwater sampled during the December 2015 sampling event. These data were evaluated to assess if natural attenuation processes are continuing to occur at the Site. The natural attenuation data from the December 2015 sampling event is summarized in **Table 4**. Historical natural attenuation data is presented in **Appendix H**.

Ferric iron can be reduced as the terminal electron acceptor in anaerobic biodegradation resulting in an increase in ferrous iron. Groundwater samples collected from monitoring wells MW-02, MW-03, MW-05, MW-06, MW-07, MW-08, and MW-10 were analyzed for ferric and ferrous iron using Standard Method 3500-Fe D#4. The laboratory analytical results indicate ferric iron was detected in monitoring wells MW-02 [5.1 milligrams/liter (mg/L)], MW-03 (4.5 mg/L), MW-06 (0.95 mg/L), MW-07 (2.9 mg/L), MW-08 (0.41 mg/L), and MW-10 (3.4mg/L). Samples were analyzed using EPA laboratory Method 200.7 for total iron. The results acquired from the laboratory testing method are summarized in **Table 4** and show that the concentration of total iron in monitoring wells MW-02 (5,060 µg/L), MW-03 (4,500 µg/L), MW-05 (96.5 µg/L), MW-06 (945 µg/L), MW-07 (3070 µg/L), MW-08 (441 µg/L) and MW-10 (3,370 µg/L). The total iron concentrations indicate a relatively oxidized/non-reducing environment. These results are not indicative of conditions favorable for reductive dechlorination within the contaminant plume.

Reduced levels of D.O. are consistent with biodegradation trends as described in the *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater, EPA 1998* (Protocol). Historically, D.O. concentrations at the Site have fluctuated over time with the lowest concentrations generally existing within the plume (MW-07). Upon depletion of dissolved oxygen, natural attenuation continues through anaerobic microbial processes utilizing

alternative electron acceptors such as nitrate and sulfate. Historical data suggest that these processes have occurred within the plume, as indicated by decreased concentrations of nitrate and sulfate over time. The December 2015 analytical data indicate similar low concentrations of sulfate both within the groundwater plume and outside the groundwater plume/background locations (ranging from 7.7 mg/L at MW-06 to <2.0 mg/L in MW-02 and MW-03). The December 2015 analytical results indicate that nitrate levels are lower inside the groundwater plume (0.10 mg/L in MW-07) than outside the groundwater plume/background locations (0.26 mg/L in MW-02 and 0.16 mg/L in MW-03). These results are potentially indicative of minimal anaerobic microbial process utilizing sulfate and nitrate within the groundwater plume.

Increasing methane concentrations in groundwater can be another indicator of natural attenuation through anaerobic processes. Methane was detected in the samples collected from monitoring well MW-02 (1.4 µg/L), MW-03 (1.1 µg/L), MW-05 (34.9 µg/L), MW-06 (1.0 µg/L), MW-07 (2.7 µg/L), and MW-10 (2.0 µg/L). These results are not indicative of anaerobic microbial processes generating methane within the groundwater plume.

Reductive dechlorination of contaminants proceeds through a known metabolic pathway. The PCE is converted to TCE which in turn is converted into cis-1,2-DCE or trans-1,2-DCE. The 1,2-DCEs are converted into vinyl chloride and then ethene. Cis-1,2-DCE was detected in monitoring wells within the groundwater plume (MW-07 at 41.3 µg/L, MW-08 at 9.3 µg/L, and MW-10 at 9.0 µg/L). The presence of cis-1,2-DCE indicates that reductive dechlorination of TCE and PCE appears to be occurring within the groundwater plume.

8.0 RECEPTOR SURVEY UPDATE

On December 8, 2015, Antea USA of NC conducted a vehicular reconnaissance of the Site and surrounding areas within a half mile radius to identify water-supply wells, public water supplies, surface water bodies, wellhead protection areas, and surrounding land use. No new water-supply wells were identified during the vehicular reconnaissance. A review of NCDENR website (http://swap.deh.enr.state.nc.us/swap_app/viewer.htm) indicates that the Site does not fall within a designated wellhead protection area. The nearest surface water body is a tributary of Kernersville Lake located approximately 330 feet downgradient from the source area. Domestic water-supply well locations are shown on **Figure 13**. General land use within the half mile radius of the Site is mixed between farming, residential, and industrial.

9.0 CONCLUSIONS

The following conclusions are provided:

- The TCE concentration detected in the groundwater sample collected from monitoring well MW-07 exceeded the groundwater remediation goal.
- Concentrations of PCE were detected in the groundwater samples collected from monitoring wells MW-02, MW-03, MW-06, MW-07, MW-08, and MW-10 at concentrations that exceeded the groundwater remediation goal.

- Concentrations of PCE were detected in the surface water samples collected from locations SW00100 and SW00200 at concentrations that exceeded the surface water remediation goal.
- Based on evaluation of current and historical groundwater concentrations, and natural attenuation data, it appears that MNA alone is no longer an effective remedy for the Site but MNA may be appropriate as a remedy following completion of a supplemental remedial alternative, should other alternatives provide a more effective remedy.

10.0 RECOMMENDATIONS

Based on these conclusions, Antea USA of NC recommends:

- Continue annual groundwater monitoring as specified in the RAP.
- Re-install the destroyed monitoring well (MW-01) in the immediate vicinity of the previous well location. The replacement well (MW-01R) will be constructed similarly to MW-01 (Type II, 2-inch diameter PVC well, installed to a depth of approximately 52 feet below ground surface, with a 15 foot screen interval). MW-01R will be installed prior to the 2016 annual sampling event.
- Evaluate risk-based remediation for closure in accordance with NCGS 130A-310.65-310.77, as amended in October 2015.

11.0 FUTURE WORK

The following tasks will be conducted during the next reporting period:

- Groundwater and surface water will be sampled during the second quarter of 2016.
- A remedial progress report will be submitted during the third quarter of 2016.

12.0 REFERENCES

Registered Environmental Consultant Program Implementation Guidance, December 2013.

Site Access Agreement, May 4, 2009, Site Access Agreement between Antea USA of NC and Rocket Properties, L.L.C. (Access Agreement).

U.S. Environmental Protection Agency (EPA), November 1998, *Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater.* EPA/600/R-98/128. Office of Research and Development, Washington, D.C. (Protocol).

13.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Date: June 24, 2016

Matthew Eckmair
Staff Professional

Reviewed by:

Date: June 24, 2016

Robert R. Thompson III, P.G.
Project Professional

Tables

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TABLE 1
Groundwater Elevation Data
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841

WELL ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-01	WELL DESTOROYED (2014)			
MW-02	12/7/2015	950.44	47.50	902.94
MW-03	12/7/2015	912.01	22.90	889.11
MW-04	12/7/2015	918.39	23.71	894.68
MW-05	12/7/2015	963.30	38.43	924.87
MW-06	12/7/2015	963.61	44.03	919.58
MW-07	12/7/2015	959.99	40.64	919.35
MW-08	12/7/2015	963.54	41.30	922.24
MW-09	12/7/2015	944.09	5.85	938.24
MW-10	12/7/2015	903.86	18.73	885.13

TABLE 2
Groundwater Analytical Data (December 2015)
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841

		EPA Method 8260								EPA Method 8270		
Analyte Detected		**Tetrachloroethene (µg/L)**	**Trichloroethene (µg/L)**	**1,1-Dichloroethene (µg/L)**	**1,2-Dichloroethene (µg/L)**	**cis 1,2-Dichloroethene (µg/L)**	**trans-1,2-Dichloroethene (µg/L)**	**1,4-Dioxane (µg/L)**	**Vinyl Chloride (µg/L)**	**1-Methylnaphthalene (µg/L)**	**2-Methylnaphthalene (µg/L)**	**Naphthalene (µg/L)**
	2L STANDARD	**0.7**	**3**	**350**	**170**	**70**	**100**	**3**	**0.03**	**NE**	**30**	**6**
Sample Location	**Date Sampled**											
MW-02	12/7/2015	**12.6**	< 1.8	< 1.9	< 4.4	< 1.8	< 1.8	< 1.9	< 1.5	< 1.8	< 1.7	< 1.5
MW-03	12/7/2015	**4.4 J**	< 1.8	< 1.9	< 4.4	< 1.8	< 1.8	< 1.9	< 1.5	< 1.8	< 1.7	< 1.5
MW-04	12/7/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-05	12/7/2015	< 1.8	< 1.8	< 1.9	< 4.4	< 1.8	< 1.8	< 1.9	< 1.5	< 1.8	< 1.7	< 1.5
MW-06	12/7/2015	**3.4 J**	< 1.8	< 1.9	< 4.4	< 1.8	< 1.8	< 1.9	< 1.5	3.2 J	6.1 J	4.5 J
MW-07	12/7/2015	**177**	**11.5**	< 1.9	41.3	41.3	< 1.8	< 1.9	< 1.5	< 1.8	< 1.7	< 1.5
MW-08 (Duplicate)	12/7/2015	**73.8**	2.8 J	< 1.9	9.3	9.3	< 1.8	< 1.9	< 1.5	< 1.8	< 1.7	< 1.5
MW-09	12/7/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	12/7/2015	**45.5**	2.2 J	< 1.9	NA	9.0	< 1.8	NA	< 1.5	NA	NA	NA
DUP-1	12/7/2015	**77.0**	**3.4 J**	< 1.9	9.7	9.7	< 1.8	<1.9	< 1.5	< 1.8	< 1.7	< 1.5
EQUIPMENT BLANK	12/8/2015	< 1.8	< 1.8	< 1.9	< 4.4	< 1.8	< 1.8	< 1.9	< 1.5	< 1.8	< 1.7	2.9 J
TRIP BLANK	12/8/2015	< 1.8	< 1.8	< 1.9	< 4.4	< 1.8	< 1.8	< 1.9	< 1.5	NA	NA	NA

Notes

µg/L	Micrograms per liter
2L STANDARD	North Carolina Administrative Code (NCAC)-2L groundwater standard
22.6	Highlighted and bolded cell indicates the concentration exceeds the 2L Standard
ND	Not detected at or above the laboratory Method Detection Limit (MDL)
< 2.0	Result is less than the laboratory MDL
NA	Not analyzed for specific constituent
NE	Not established
NS	Not Sampled
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

TABLE 3
Surfacewater Analytical Data (December 2015)
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841

		EPA Method 8260					
Analyte Detected		**Tetrachloroethene (µg/L)**	**Trichloroethene (µg/L)**	**1,1-Dichloroethene (µg/L)**	**cis 1,2-Dichloroethene (µg/L)**	**trans-1,2-Dichloroethene (µg/L)**	**Vinyl Chloride (µg/L)**
WS-IV Surface Water Standards		**0.7**	**2.5**	**330**	**60**	**140**	**0.025**
Sample Location	**Date Sampled**						
SW00100 (DUPLICATE)	12/7/2015	**4.3 J**	< 1.8	< 1.9	< 1.8	< 1.8	< 1.5
SW00200	12/7/2015	**3.1 J**	< 1.8	< 1.9	< 1.8	< 1.8	< 1.5
SW00300	12/7/2015	< 1.8	< 1.8	< 1.9	< 1.8	< 1.8	< 1.5
SW00400	12/8/2015	< 1.8	< 1.8	< 1.9	< 1.8	< 1.8	< 1.5
DUP-SW	12/7/2015	**4.1 J**	< 1.8	< 1.9	< 1.8	< 1.8	< 1.5

Notes

µg/L	Micrograms per liter
22.6	Highlighted and bolded cell indicates the concentration exceeds the 2L Standard
ND	Not detected at or above the laboratory Method Detection Limit (MDL)
< 2.0	Result is less than the laboratory MDL
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
WS-IV Surface Water Standards	15A NCAC 02B.0216 Fesh Surface Water Quality Standards for WS-IV Waters

TABLE 4
Monitored Natural Attenuation Data (December 2015)
Former Varco-Prudent Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841

		EPA 353.2	EPA 300.0	SM 3500-Fe D#4	SM 3500-Fe B	EPA 200.7	RSK 175
Analyte Detected		**Nitrogen, Nitrate**	**Sulfate**	**Ferric Iron**	**Ferrous Iron**	**Total Iron**	**Methane**
Sample Location	**Date Sampled**	**(mg/L)**	**(mg/L)**	**(mg/L)**	**(mg/L)**	**(µg/L)**	**(µg/L)**
MW-02	12/7/2015	0.26	< 1.0	5.1	< 0.50	5060	1.4 J
MW-03	12/7/2015	0.16	< 1.0	4.5	< 0.50	4500	1.1 J
MW-04	12/7/2015	NS	NS	NS	NS	NS	NS
MW-05	12/7/2015	< 0.010	5.7	< 0.25	< 0.50	96.5	34.9
MW-06	12/7/2015	0.040	7.7	0.92	< 0.50	945	1.0 J
MW-07	12/7/2015	0.10	5.0	2.9	< 0.50	3070	2.7 J
MW-08 (Duplicate)	12/7/2015	0.39	1.5 J	0.41 J	< 0.50	441	< 0.63
MW-09	12/7/2015	NS	NS	NS	NS	NS	NS
MW-10	12/7/2015	0.72	< 1.0	3.4	< 0.50	3370	2.0 J
DUP-1	12/7/2015	0.37	2.0 J	1.2	< 0.50	1350	6.4 J
EQUIPMENT BLANK	12/8/2015	< 0.010	< 1.0	< 0.25	< 0.50	< 25.0	1.1 J
TRIP BLANK	12/8/2015	NA	NA	NA	NA	NA	NA

Notes

µg/L	Micrograms per liter
mg/L	Milligrams per liter
NA	Sample not analyzed for selected analyte
NS	Not Sampled
< 2.0	Result is less than the laboratory Method Detection Limit (MDL)
J	Estimated concentration above the adjusted MDL and below theadjusted Reporting Limit (RL)

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Figure 13 Domestic Water Supply Well Location

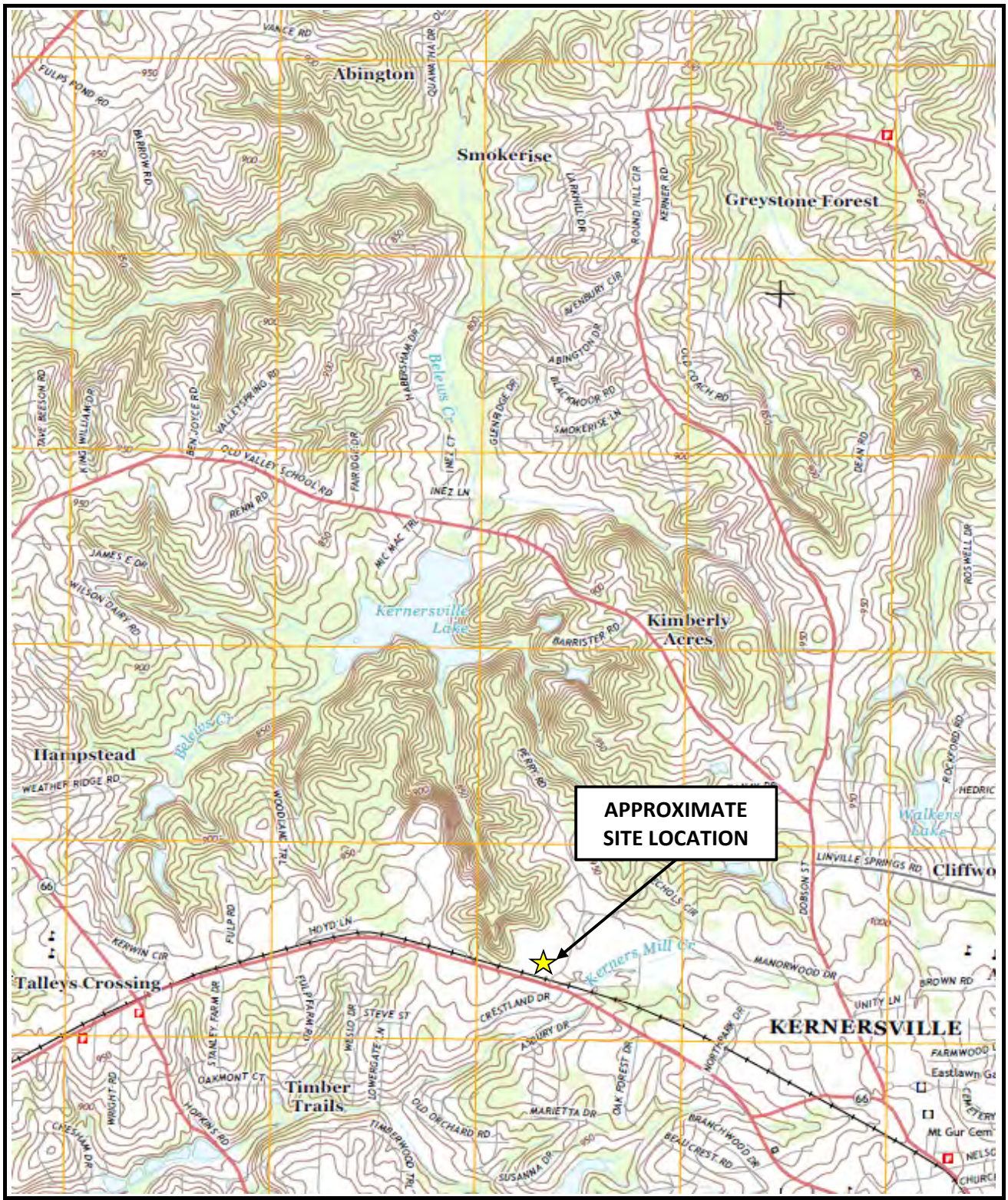
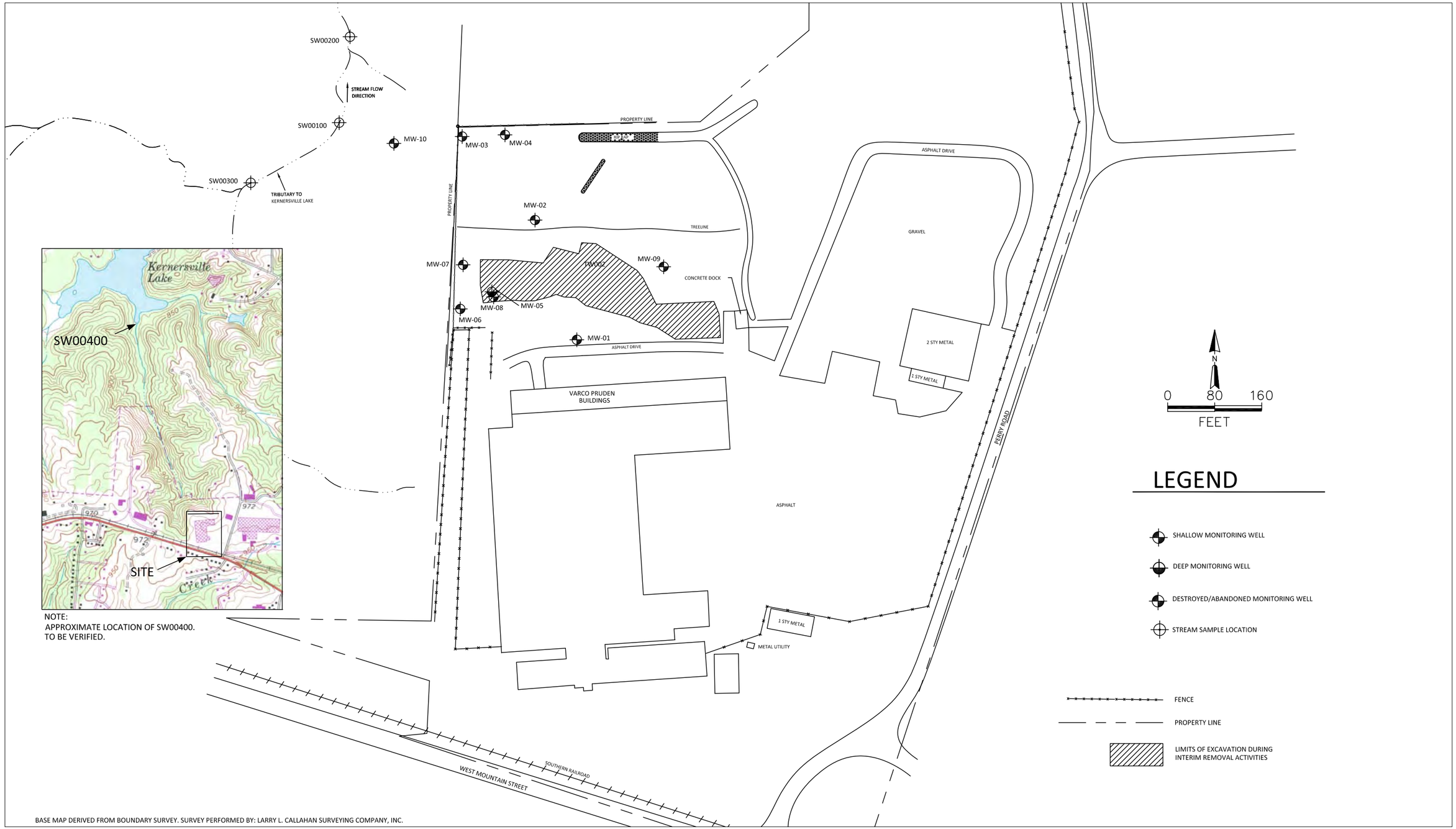


FIGURE 1: TOPOGRAPHIC LOCATION MAP
Former Varco-Pruden Buildings, Inc.

SOURCE: Belews Creek Quadrangle, Maryland, 2013

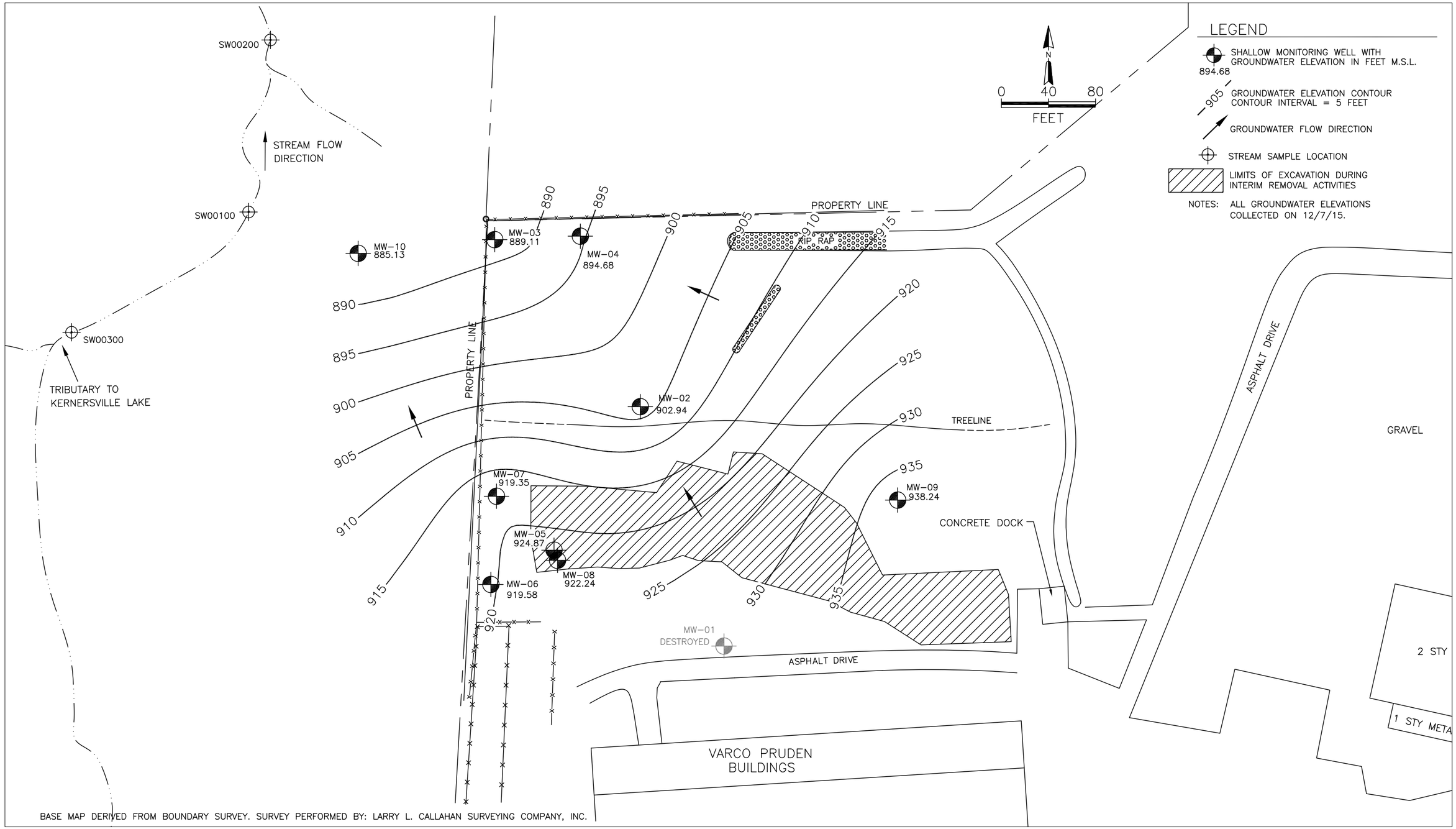
PREPARED FOR: SPX	DATE: 2/12/2016
PROJ. MGR: Scott Recker	PROJ. # E040957841
DRAWN BY: Matthew Eckmair	



anteagroup

TITLE:
SITE MAP
FORMER VARCO-PRUDEN BUILDINGS, INC.
KERNERSVILLE, NORTH CAROLINA

DWN: PM/DR	DES.:	PROJECT NO.: E040957841
CHKD: ME	APPD:	FIGURE NO.: 2
DATE: 03/20/02	REV.: 2/15/16	

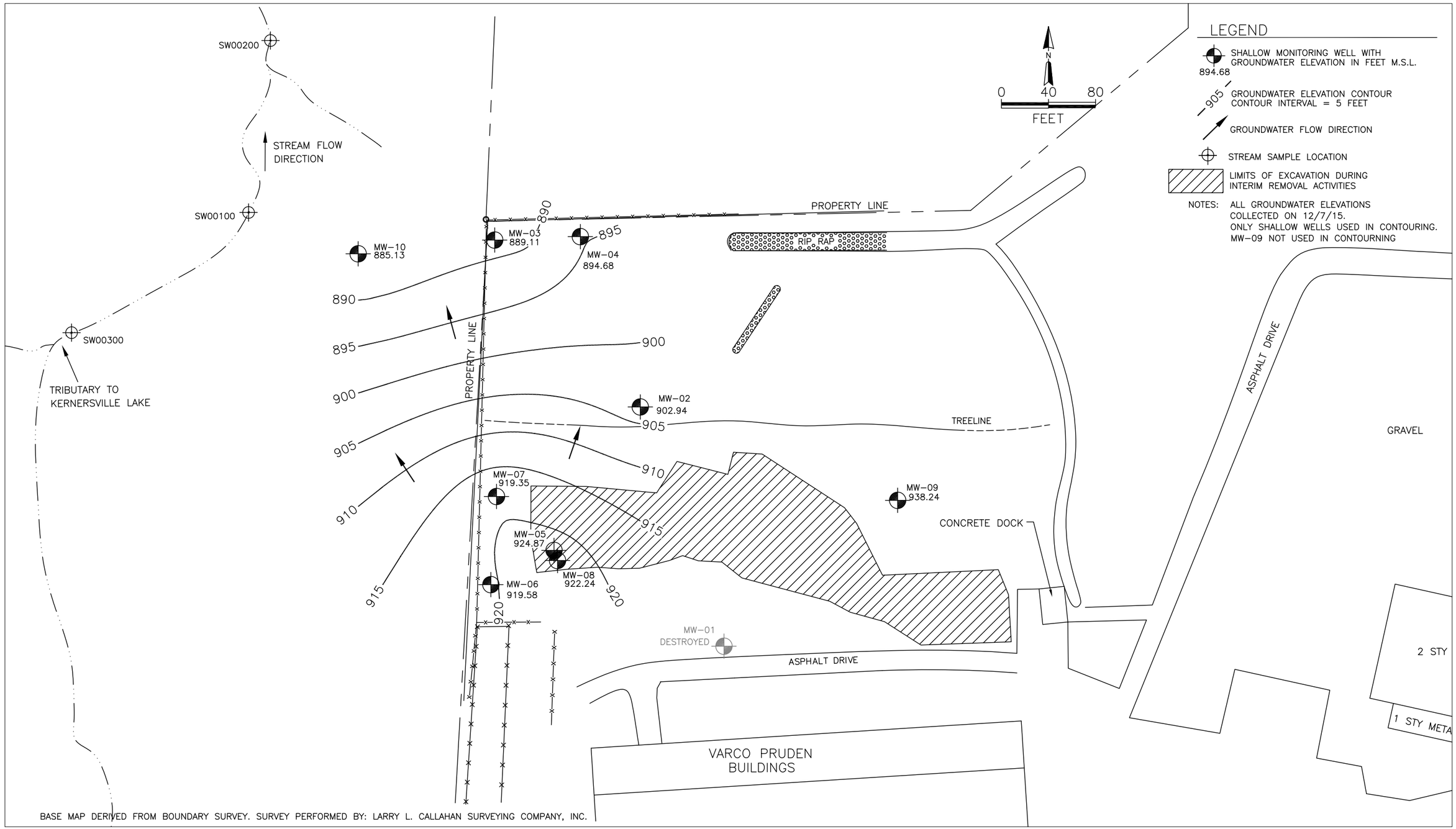


BASE MAP DERIVED FROM BOUNDARY SURVEY. SURVEY PERFORMED BY: LARRY L. CALLAHAN SURVEYING COMPANY, INC.

anteagroup

TITLE:
GROUNDWATER ELEVATION CONTOUR MAP (DECEMBER 2015)
FORMER VARCO-PRUDEN BUILDINGS, INC.
KERNERSVILLE, NORTH CAROLINA

DWN: ADU/DR	DES.:	PROJECT NO.: E040957841
CHKD: ME	APPD: RT	FIGURE NO.: 3
DATE: 7/10/07	REV.: 2/15/16	

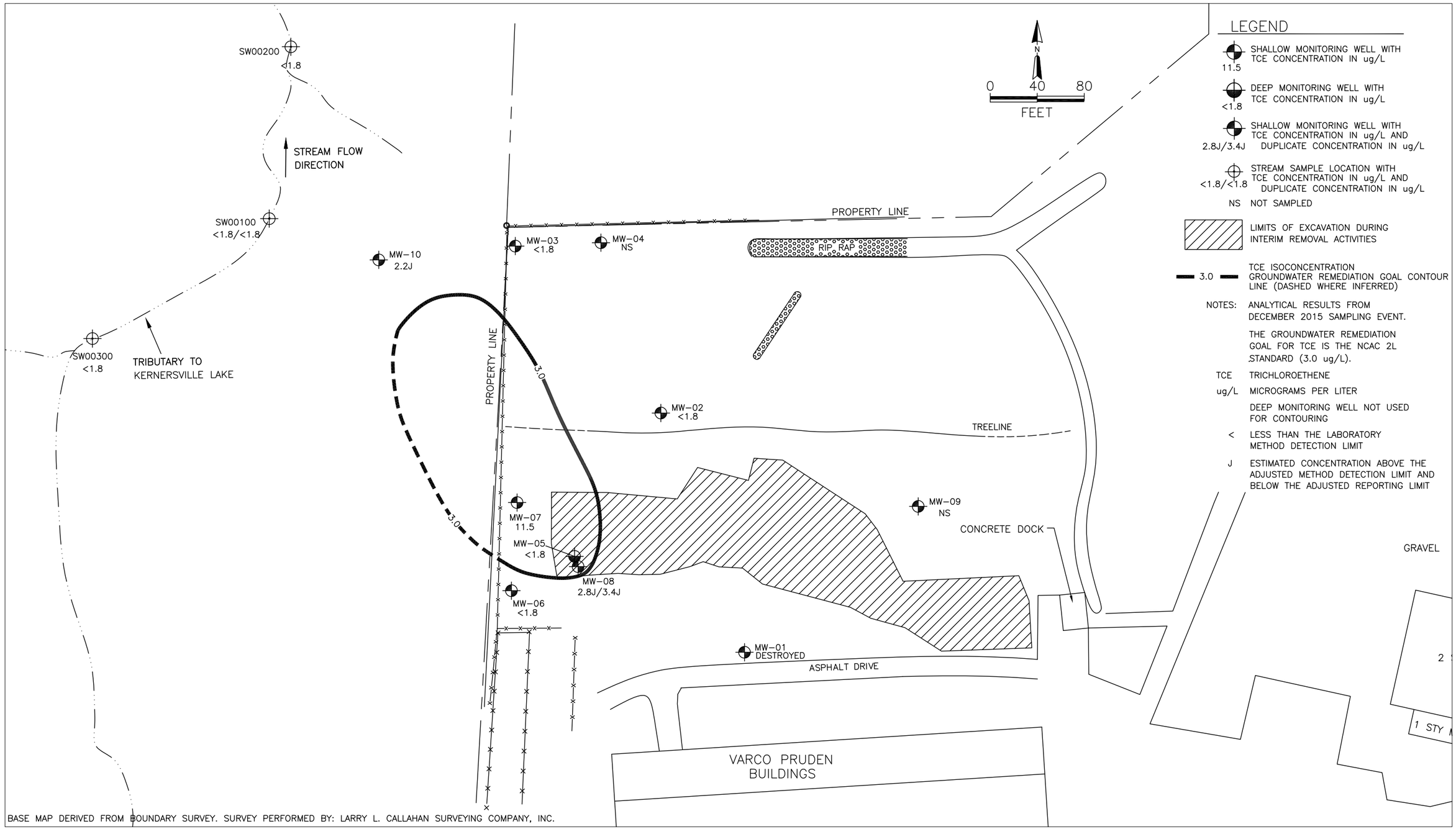


BASE MAP DERIVED FROM BOUNDARY SURVEY. SURVEY PERFORMED BY: LARRY L. CALLAHAN SURVEYING COMPANY, INC.

anteagroup

TITLE:
GROUNDWATER ELEVATION CONTOUR MAP (DECEMBER 2015)
FORMER VARCO-PRUDEN BUILDINGS, INC.
KERNERSVILLE, NORTH CAROLINA

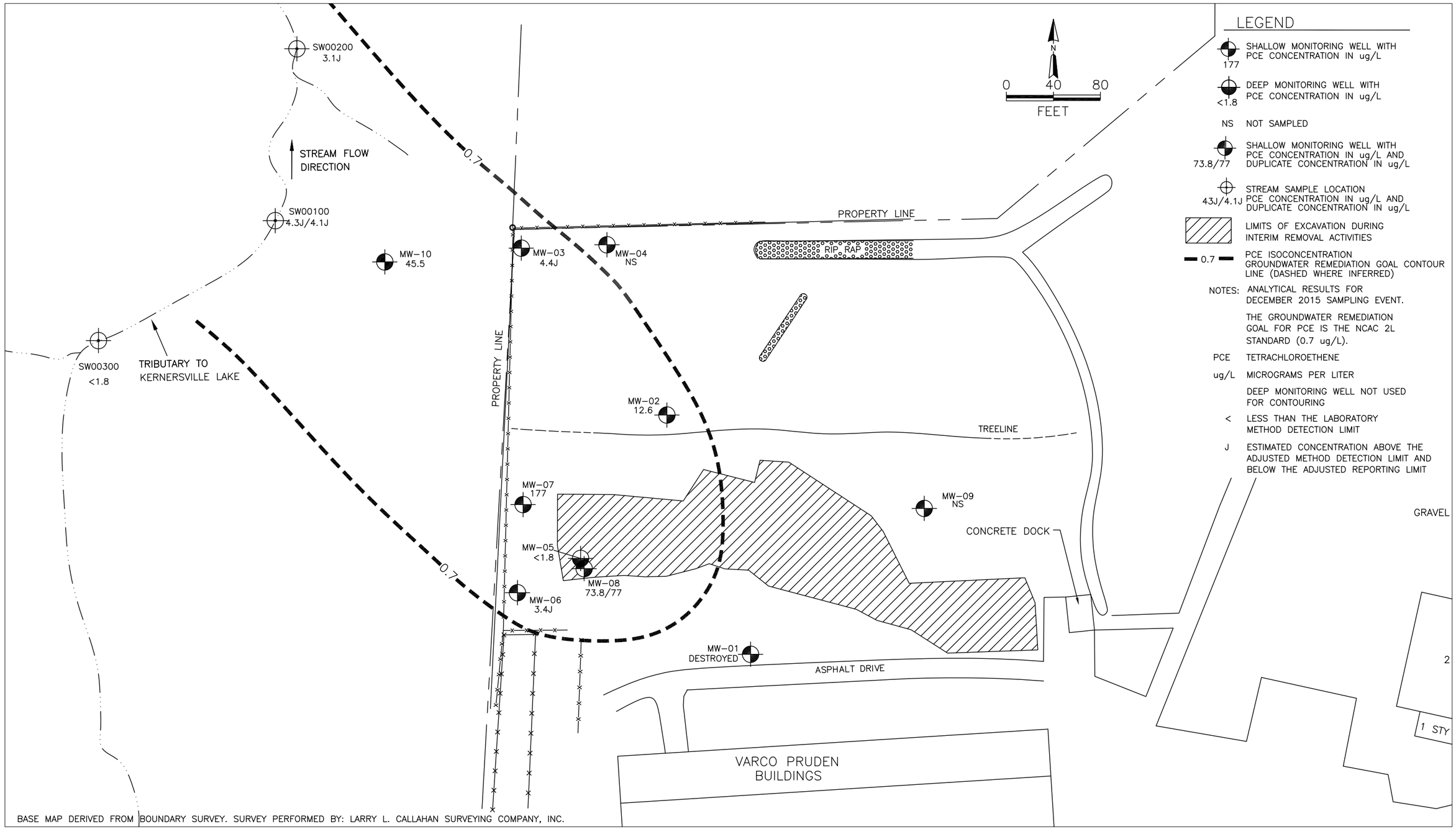
DWN: ADU/DR	DES.:	PROJECT NO.: E040957841
CHKD: ME	APPD: RT	FIGURE NO.: 3
DATE: 7/10/07	REV.: 2/15/16	



anteagroup

TITLE:
TCE IN GROUNDWATER (DECEMBER 2015)
VARCO-PRUDEN BUILDINGS, INC.
KERNERSVILLE, NORTH CAROLINA

DWN: DR	DES.:	PROJECT NO.: E040957841
CHKD: ME	APPD: RT	FIGURE NO.: 4
DATE: 7/15/08	REV.: 2/23/16	



anteagroup

TITLE:
PCE IN GROUNDWATER (DECEMBER 2015)
VARCO-PRUDEN BUILDINGS, INC.
KERNERSVILLE, NORTH CAROLINA

DWN: DR	DES.:	PROJECT NO.: E040957841
CHKD: ME	APPD: RT	FIGURE NO.: 5
DATE: 7/15/08	REV.: 2/23/16	

FIGURE 6
MW-07 VOC CONCENTRATIONS vs TIME
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841

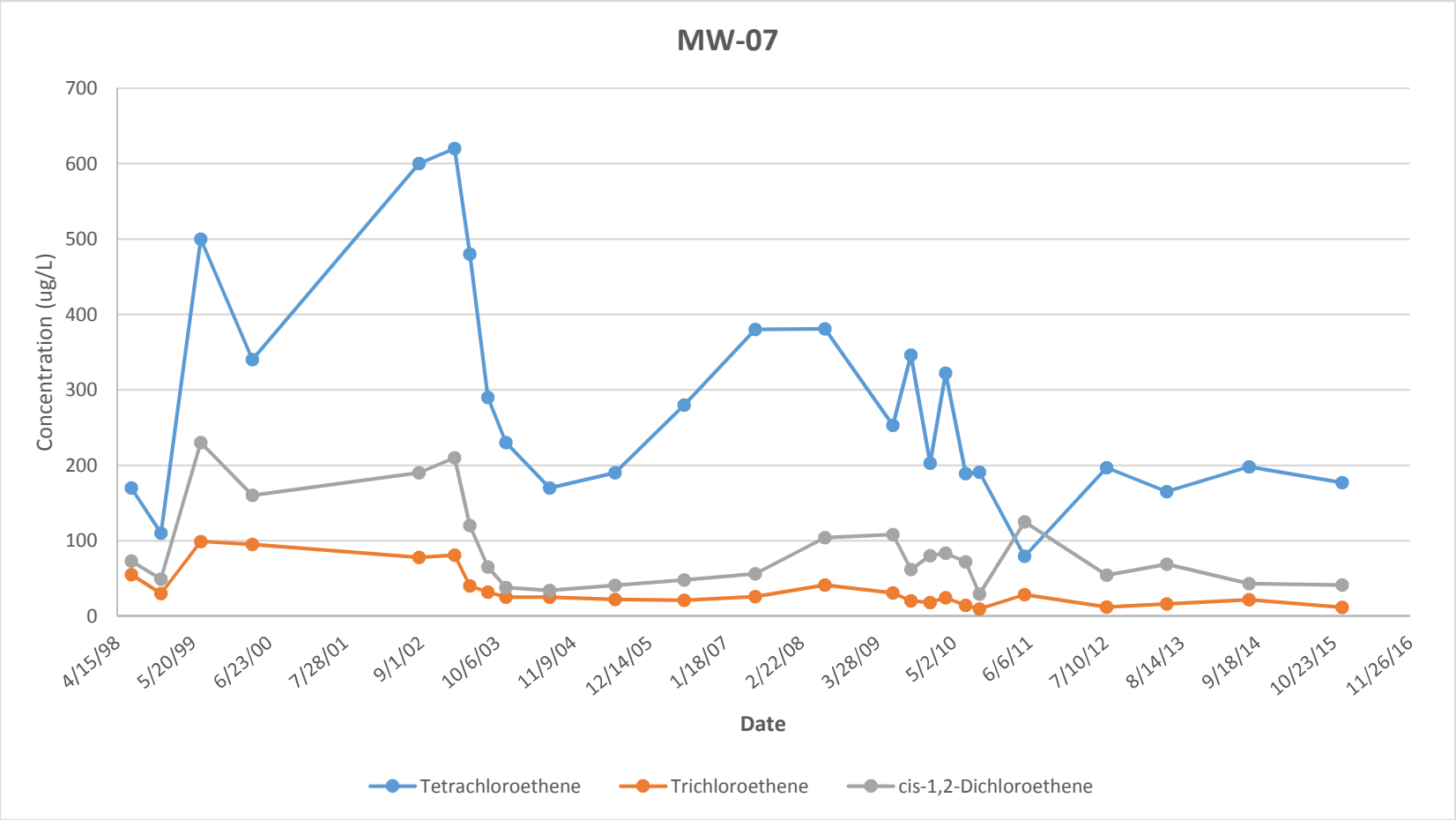


FIGURE 7
MW-08 VOC CONCENTRATIONS vs TIME
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841

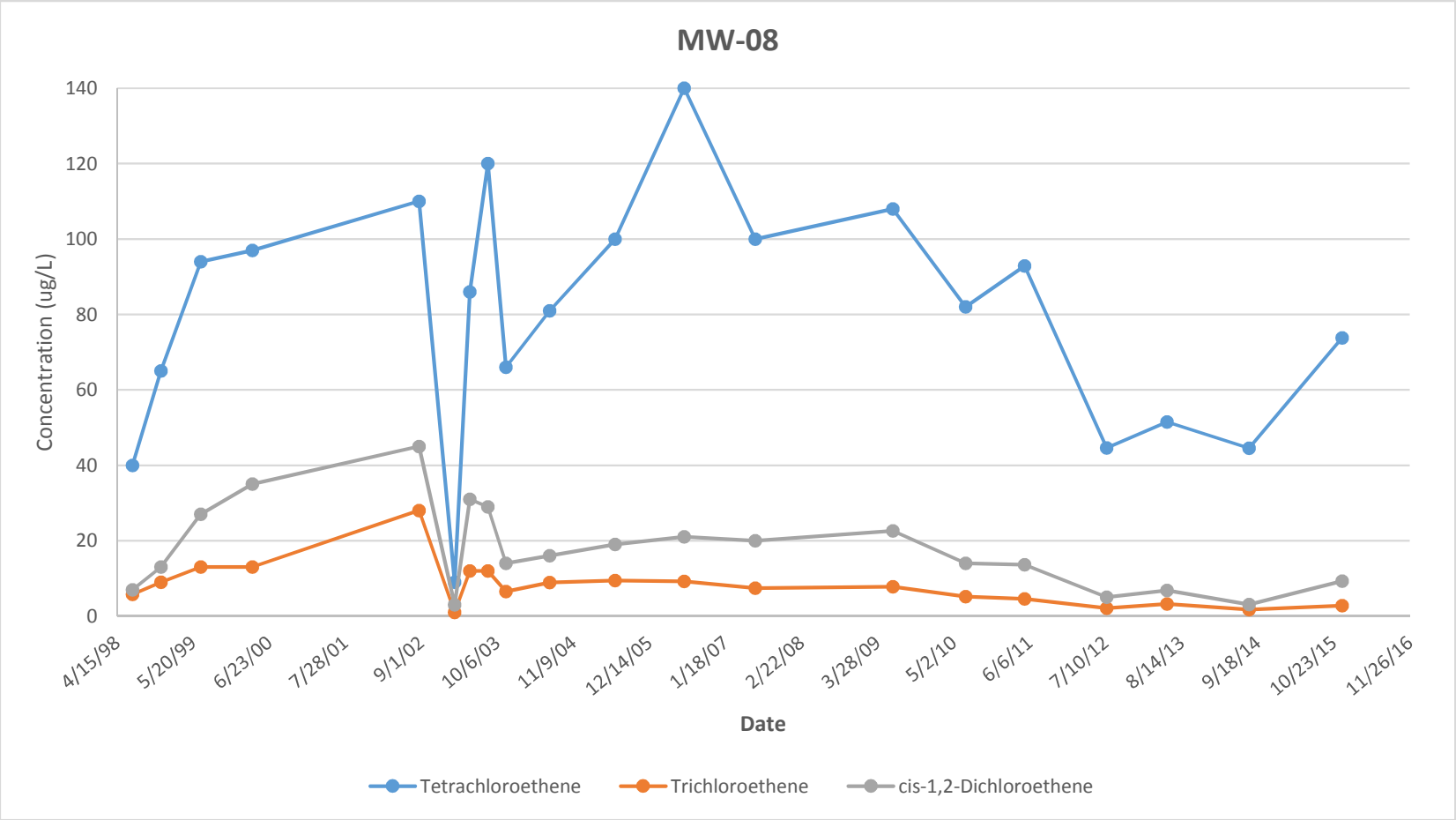
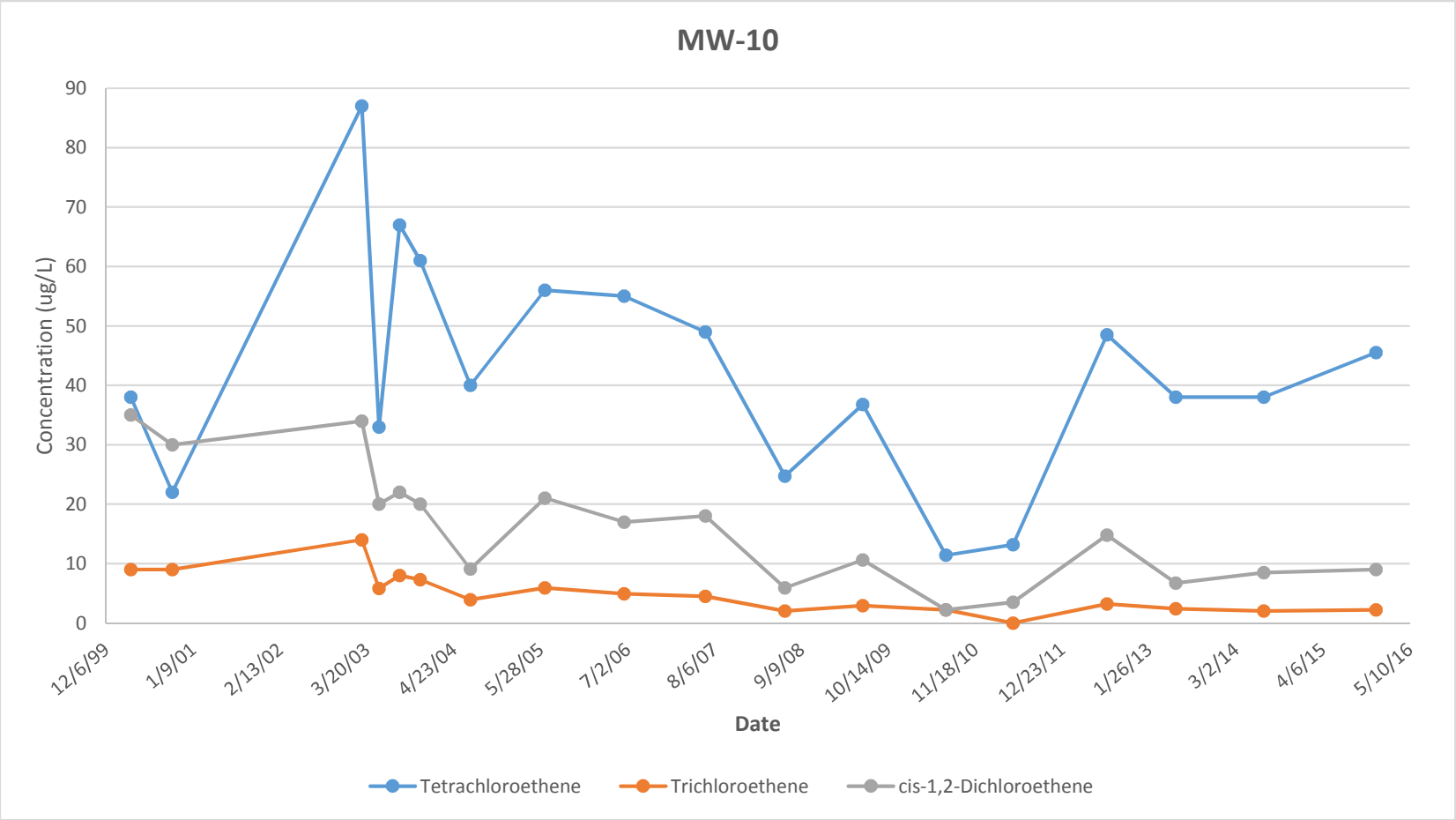
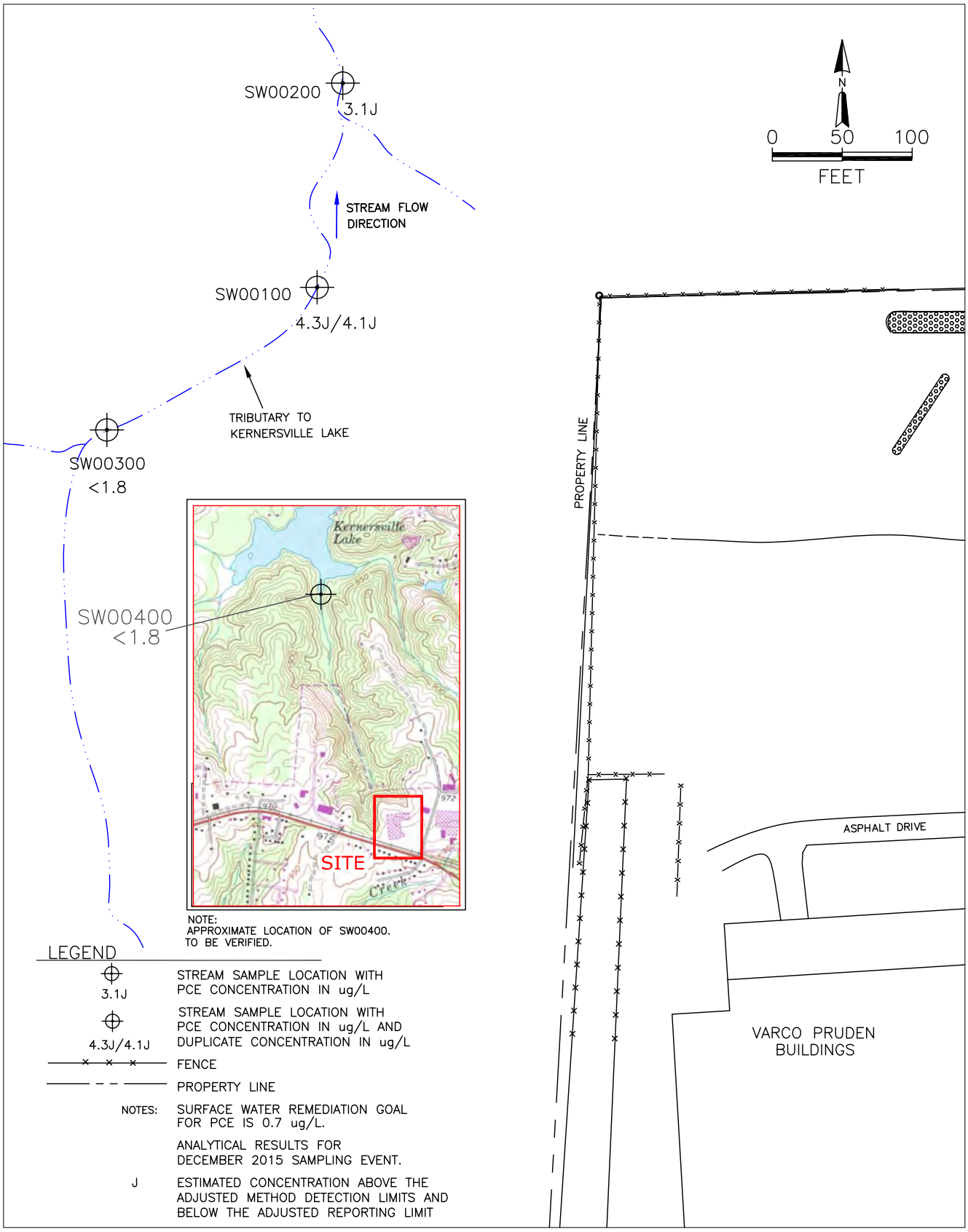


FIGURE 8
MW-10 VOC CONCENTRATIONS vs TIME
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841





anteagroup

TITLE:

PCE IN SURFACEWATER (DECEMBER 2015)

VARCO–PRUDEN BUILDINGS, INC.

KERNERSVILLE, NORTH CAROLINA

DWN: DR	DES.: ME	PROJECT NO.: E040957841
CHKD: ME	APPD: RT	FIGURE NO.: 9
DATE: 7/15/09	REV.: 2/23/16	

FIGURE 10
SW00100 VOC CONCENTRATIONS vs TIME
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841

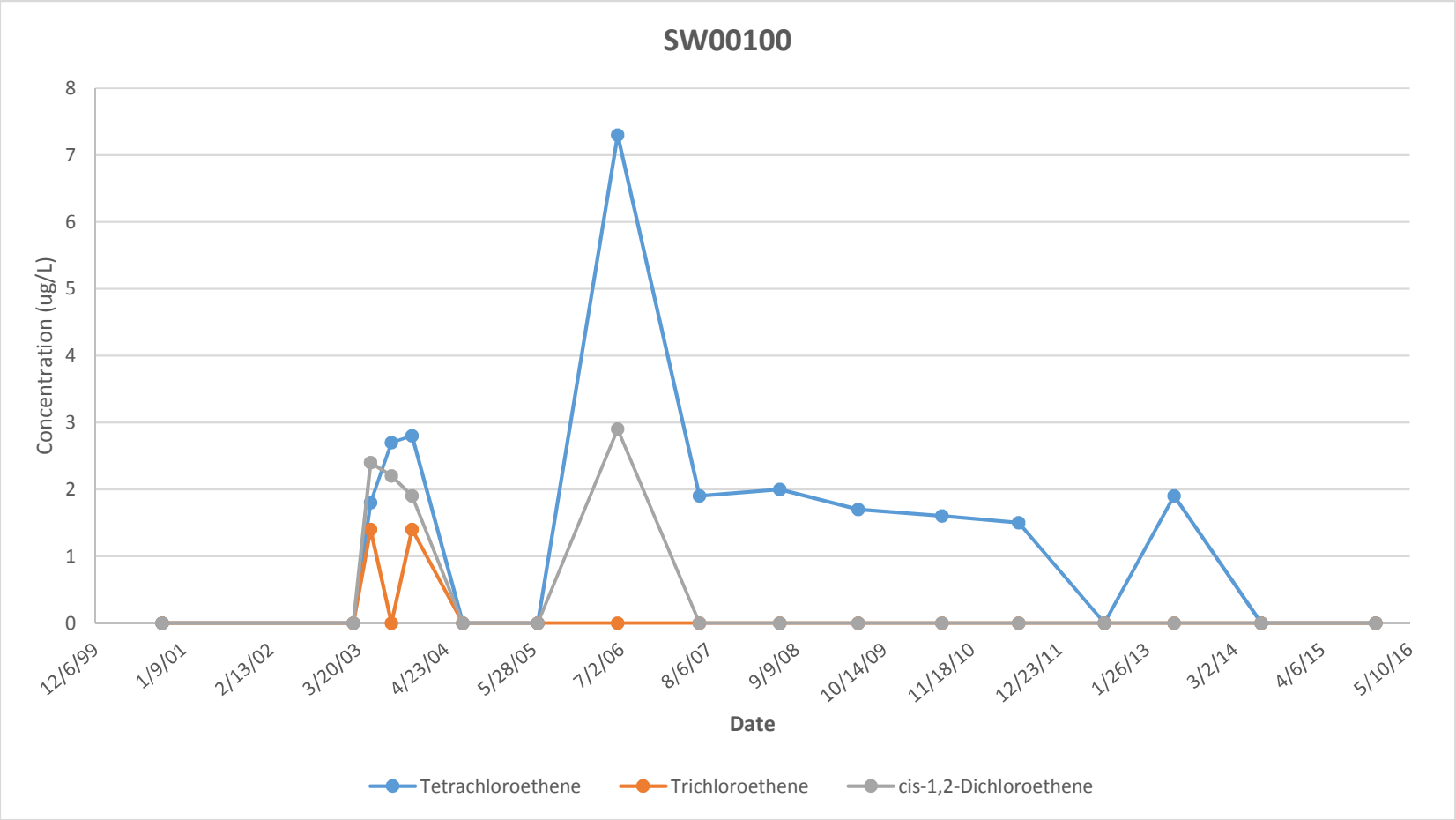


FIGURE 11
SW00200 VOC CONCENTRATIONS vs TIME
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841

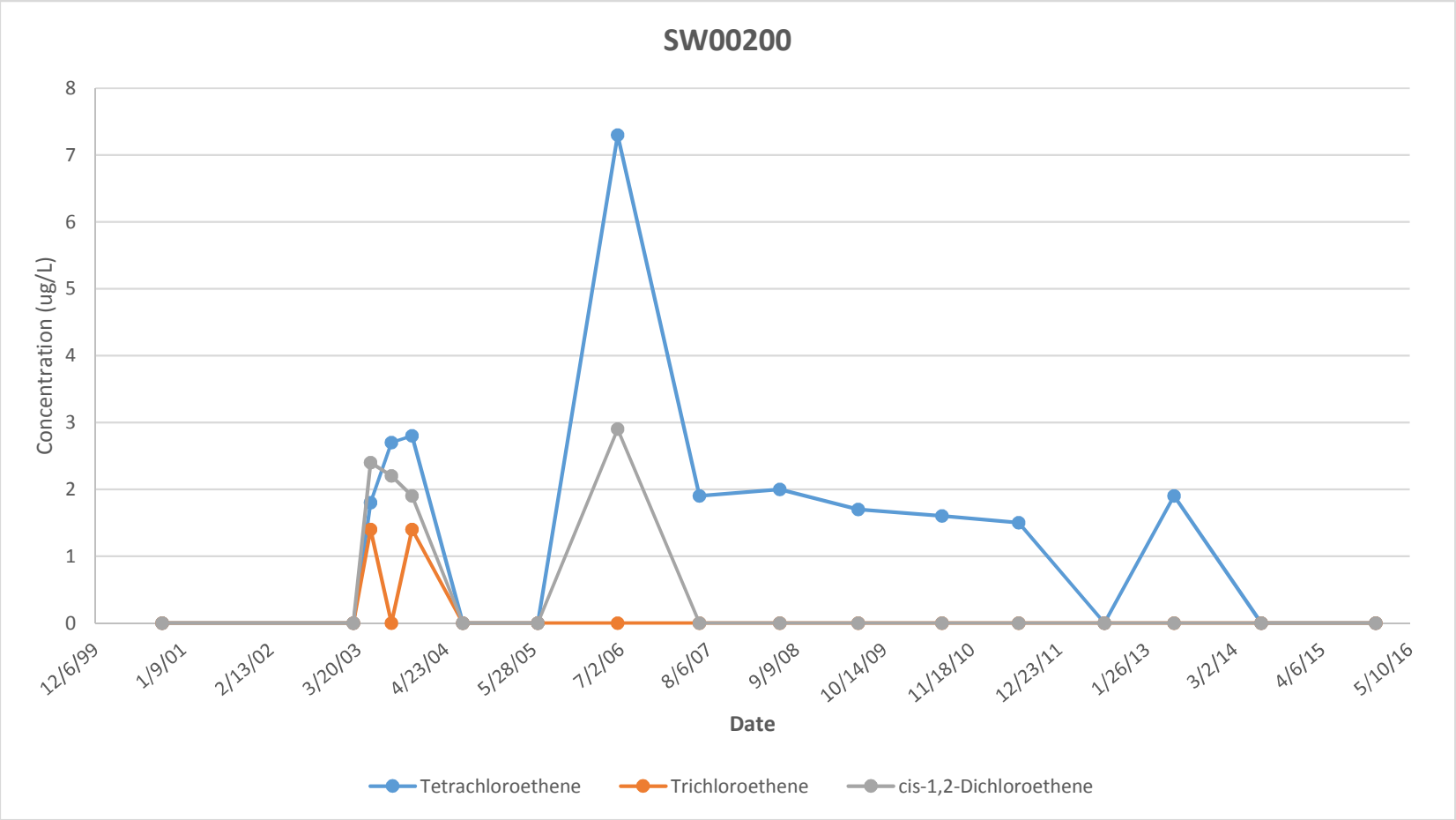
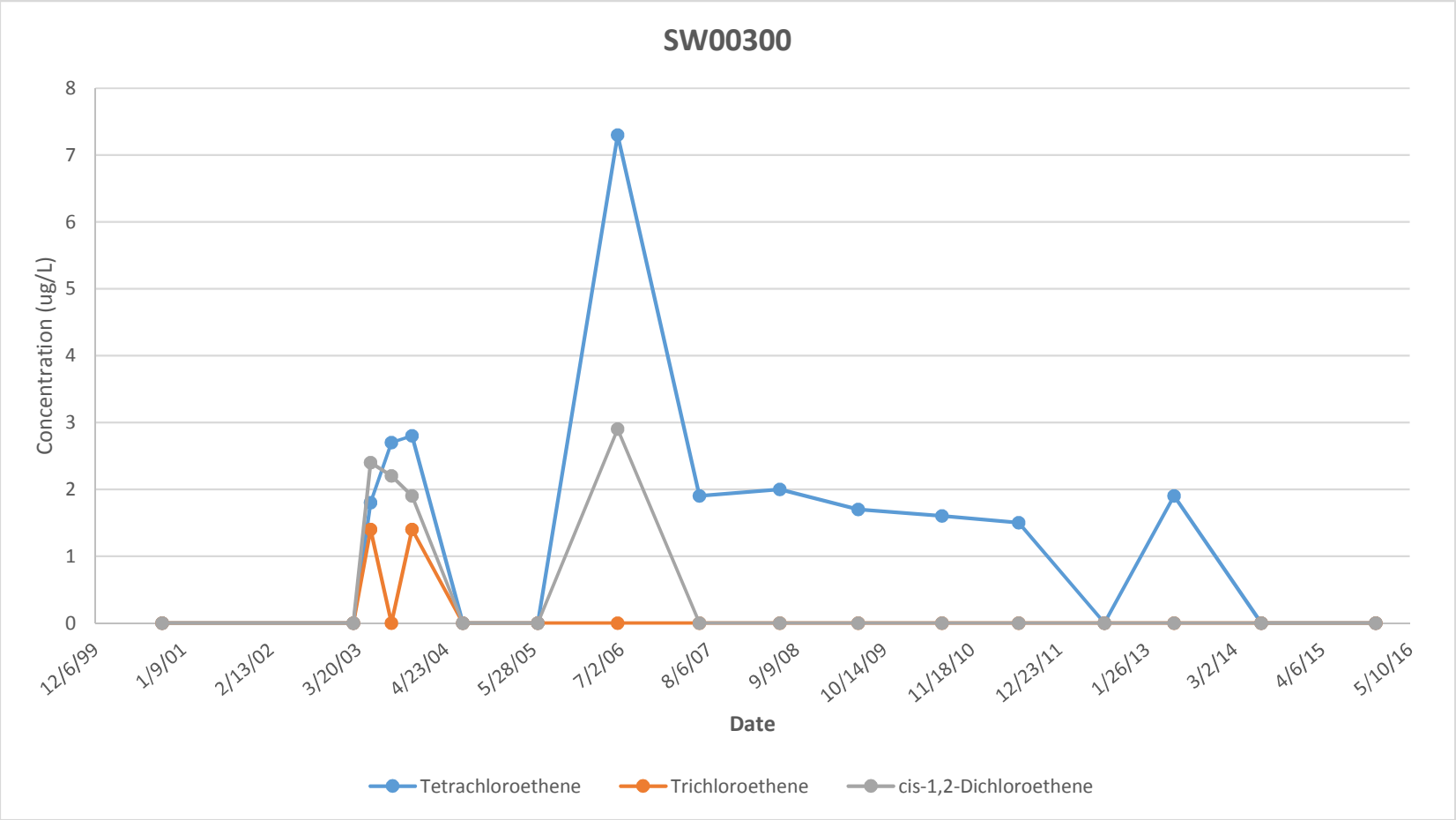
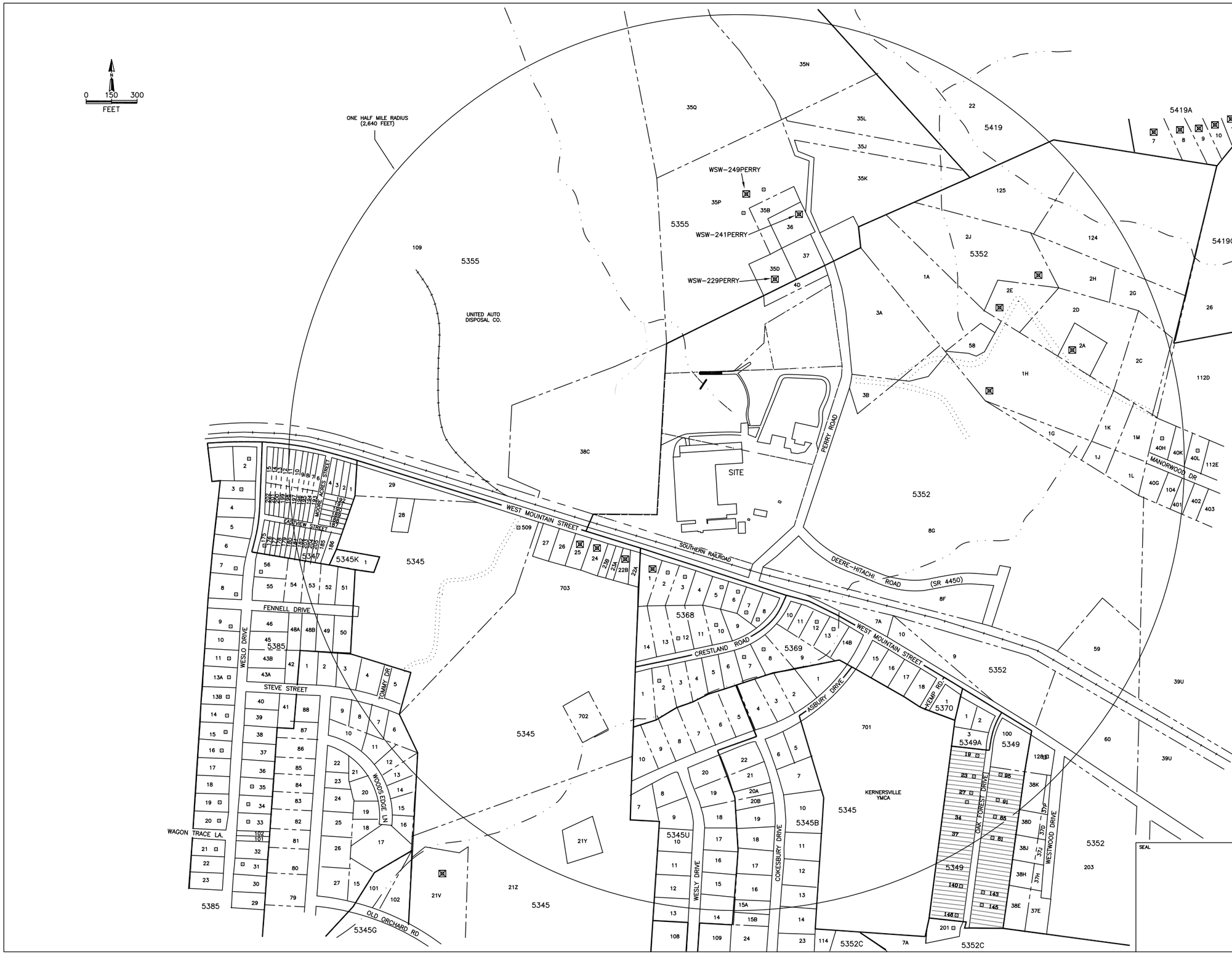


FIGURE 12
SW00300 VOC CONCENTRATIONS vs TIME
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841





NOTES

LEGEND:

	PROPERTY LINE
	WATER SUPPLY WELL WITH MUNICIPAL WATER CONNECTION (WELL LOCATION ARBITRARY)
	WATER SUPPLY WELL WITHOUT MUNICIPAL WATER CONNECTION (WELL LOCATION ARBITRARY)
112	LOTS CONSOLIDATED. WELL LOCATED AT LOT SHOWING STREET ADDRESS)
	PRIVATE ROAD
	STREAM OR CREEK
	RAILROAD TRACKS
	RAILROAD SPUR
5368	BLOCK NUMBER
	BLOCK BOUNDARY
12	LOT NUMBER

NOTE: BASE MAP COMPILED FROM FORSYTH COUNTY TAX MAP 672866 (9/21/99), 672870 (1/7/00), 678866 (9/21/99) AND 678870 (1/7/00).

REVISED 10/07/03.

NO.	DATE	DESCRIPTION	DRAWN	REVIEW

anteagroup

SEAL

DELTA PROJECT NO.: E040957841

PROJECT MANAGER: S. RECKER

DESIGNED BY:

DRAWN BY: A. HEGGIE, C. GREENE

REVIEWED BY:

CLIENT/LOCATION: VARCO-PRUDEN BUILDINGS, INC. KERNERSVILLE, NORTH CAROLINA

DRAWING DESCRIPTION: FIGURE 13 DOMESTIC WATER SUPPLY WELL LOCATIONS

DATE	SCALE	CAD NO.	SHEET
2/16/16	AS SHOWN	048-SWSM2	1 OF 1

Appendix A

Remediating Party/Registered Site Manager Document Certification Statement

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 1 OF 2
IHSB SITE NAME Varco-Pruden Buildings, Inc.
DATE & NAME OF DOCUMENT June 24, 2016 2015 Annual Remedial Progress Report
TYPE OF SUBMITTAL (circle all that apply): Report, Work plan, Work Phase Comp. Statement, Schedule Change

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

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

Walter Galacki, SPX Corporation
Name of Remediating Party

Signature of Remediating Party

8/15/16
Date

NOTARIZATION

North Carolina (Enter State)

Mecklenburg **COUNTY**

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

WITNESS my hand and official seal this 15 day of August, 2016.

Engracia Gastelum
Notary Public (signature)

My commission expires: 8-16-2020

(OFFICIAL SEAL)

ENGRACIA GASTELUM
NOTARY PUBLIC
MECKLENBURG COUNTY
NORTH CAROLINA
MY COMMISSION EXPIRES 8/16/2020

REC PROGRAM DOCUMENT CERTIFICATION FORM - PAGE 2 OF 2
IHSB SITE NAME Varco-Pruden Buildings, Inc.
DATE & NAME OF DOCUMENT June 24, 2016 2015 Annual Remedial Progress Report
TYPE OF SUBMITTAL (circle all that apply) Report, Work plan, Work Phase Comp. Statement, Schedule Change

REGISTERED SITE MANAGER CERTIFICATION OF SIGNATURES

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

Scott Recker, P.G.
Name of Registered Site Manager

Signature of Registered Site Manager — Date 8-15-16

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

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

Scott Recker, P.G.
Name of Registered Site Manager

Signature of Registered Site Manager — Date 8-15-16

NOTARIZATION

NORTH CAROLINA (Enter State)

MECKLENBURG **COUNTY**

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

WITNESS my hand and official seal this 15th day of August 2016.

Vicky M Neal
Notary Public (signature)

(OFFICIAL SEAL)

VICKY M. NEAL NOTARY PUBLIC MECKLENBURG COUNTY, N.C.

My commission expires: 4-12-2019

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

Appendix B

Field and Laboratories Quality Assurance and Quality Control Procedures

FIELD AND LABORATORY QUALITY ASSURANCE/ QUALITY CONTROL PROCEDURES

Standard Field Protocols:

In accordance with Branch Guidance, field procedures were performed in compliance with the US Environmental Protection Agency Region IV, Science and Ecosystem Support Division (SESD), Field Branches Quality System and Technical Procedures.

Sample Custody

A sample tag was completed for each sample using waterproof, non-erasable ink.

Samples were sealed as soon as possible following collection utilizing appropriate EPA-approved seals.

Chain-of-Custody-Record included the following information:

- Project Number;
- Project Name;
- Sampler(s) Name and Signatures;
- Sampling Station Numbers, Date, Time of Collection, Type of Sample, and Description of Sample Location;
- Total Number of Sample Containers;
- Tag Numbers for Each Sample (if applicable);
- Signature of Subsequent Transferee(s); and
- Specific Instructions to Laboratory Detailing Data Reporting Format (provided by Antea).

All Air Bills used to ship samples were retained and accompany shipper's copy of Chain-of-Custody Record.

Field Records

All aspects of sample collection and handling, as well as visual observations, were documented in a dedicated field logbook. Information included the following:

- Sample Collection Equipment;
- Field Analytical Equipment;
- Calculations, Results, and Calibration Data for Field Sampling, Field Analytical, and Field Measurements;
- Sampling Station Identification;
- Time of Sample Collection;
- Description of Sample Collection;
- Description of Sample;
- Person(s) Collecting the Sample;
- Method of Sample Collection; and
- Weather Conditions at the Time of Sampling.

Note: All records generated during the sampling event were submitted to the RSM. This included dedicated logbook, groundwater sampling records, Chain-of-Custody Records, etc.

Standard Sample Collection Protocols:

Long Term Monitoring Wells

Prior to initiating purging, the amount of water standing in the water column was determined.

Adequate purge is normally achieved when three to five times the volume of standing water in the well has been removed.

The following field parameters were used as indicators of purge adequacy:

- *pH* - measurements remain constant within 0.1 standard units (su);
- *Specific conductance* - measurements of three consecutive readings are within 10%; and,
- *Temperature* - measurements are consistent within three consecutive readings.

Surface Water

Samples were collected directly into the sample container when the surface water source is accessible by wading or other means. The sampler faced upstream and collected the sample without disturbing the sediment. Care was taken not to displace the preservative from a pre-preserved sample container.

Supply Wells

Samples were collected from a source closest to the origin of the water prior to the water entering the residence or structure. A smooth flowing water stream at moderate pressure without splashing was used. The following sampling technique was utilized:

- The system was purged for at least 15 minutes, from a spigot located near the well head or pump house;
- After purging for 15 minutes, the pH, specific conductance, and temperature of the water was measured. These parameters were monitored until three consistent readings were obtained; and
- After three consistent readings were obtained, samples were collected.

Standard Sample Shipping Protocols:

The following EPA protocols were used when shipping environmental samples by air:

- Sufficient headspace was allowed in all bottles (except VOC containers with a septum seal to compensate for any pressure and temperature changes);
- Bottles were placed in separate and appropriately sized polyethylene bags and the bags were sealed with tape;
- The drain plug was taped and secured with fiber or duct tape. The cooler was lined with a large heavy duty plastic bag;
- Two to four inches of a suitable cushioned packing material was placed in the bottom of the cooler;
- "Blue ice" or ice that was "double bagged" in heavy-duty polyethylene bags was placed and sealed on top of and / or between the samples. Any remaining space between the samples was filled with an appropriate cushioned packing material;
- The top of the large polyethylene bag was securely fastened with tape;

- The Chain-of-Custody Record was placed into a plastic bag and the tag was taped to the inner side of the cooler lid;
- The cooler was closed and the top of the cooler was securely taped. Chain-of-Custody seals were affixed to the top and sides of the cooler within the securing tape so that the cooler could not be opened without breaking the seal; and
- Shipping containers were marked "THIS END UP", and arrow labels that indicate the proper upward position of the container were affixed to the container.

Standard Sample QA/QC Protocols:

Field QC samples included the following:

- One duplicate sample per medium per container type per field day;
- Equipment rinsate blanks were performed once per sampling event; and
- VOA trip blanks were included in all coolers containing VOC analyses.

Standard Field Cleaning Procedures:

Bailer:

Since disposable Teflon® bailers were used to collect groundwater samples, no field cleaning will be performed. Bailers will be used one time and properly disposed of.

Water Tape:

1. Wash with soap and tap water.
2. Rinse with tap water.
3. Rinse with analyte free water.

Sampling Pump:

1. Scrub exterior of pump and electrical cord using a brush and soap.
2. Rinse with tap water.
3. Rinse with analyte free water.
4. Place equipment in plastic bag between wells.

Analytical Data QA/QC Procedures:

Laboratory analyses were performed by a laboratory certified for the applicable parameters under 15A NCAC Subchapter 2H .0800. Laboratory Quality Assurance/Quality Control procedures will be performed in accordance with Appendix A, Section A.8 of the *REC Guidance.* Groundwater, surface water and supply well sampling and analysis were performed in accordance with Branch Guidance.

Appendix C

Laboratory Analytical Report (December 2015)

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 21, 2015

Mr. Rob Thompson
Antea Group
8008 Corporate Center Drive
Suite 100
Charlotte, NC 28226

RE: Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Dear Mr. Thompson:
Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Trey Carter
trey.carter@pacelabs.com
Project Manager

Enclosures

cc: Matthew Eckmair, Antea Group
AG Data View

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without the written consent of Pace Analytical Services, Inc..

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92278873001	**MW-2**	Water	12/07/15 14:20	12/08/15 14:03
92278873002	**MW-3**	Water	12/07/15 13:30	12/08/15 14:03
92278873003	**MW-5**	Water	12/07/15 16:30	12/08/15 14:03
92278873004	**MW-6**	Water	12/07/15 10:35	12/08/15 14:03
92278873005	**MW-7**	Water	12/07/15 17:15	12/08/15 14:03
92278873006	**MW-8**	Water	12/07/15 15:20	12/08/15 14:03
92278873007	**DUP-1**	Water	12/07/15 00:00	12/08/15 14:03
92278873008	**EQUIP BLANK**	Water	12/08/15 10:48	12/08/15 14:03
92278873009	**TRIP BLANK**	Water	12/08/15 00:00	12/08/15 14:03

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92278873001	**MW-2**	RSK 175	DR1	1	PASI-M
		EPA 200.7	CDF	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	71	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 3500-Fe B	WRC	1	PASI-A
		EPA 300.0	MDW	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
92278873002	**MW-3**	RSK 175	DR1	1	PASI-M
		EPA 200.7	CDF	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	71	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 3500-Fe B	WRC	1	PASI-A
		EPA 300.0	MDW	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
92278873003	**MW-5**	RSK 175	DR1	1	PASI-M
		EPA 200.7	CDF	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	71	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 3500-Fe B	WRC	1	PASI-A
		EPA 300.0	MDW	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
92278873004	**MW-6**	RSK 175	DR1	1	PASI-M
		EPA 200.7	CDF	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	71	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 3500-Fe B	WRC	1	PASI-A
		EPA 300.0	MDW	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
92278873005	**MW-7**	RSK 175	DR1	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.7	CDF	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	71	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 3500-Fe B	WRC	1	PASI-A
		EPA 300.0	MDW	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
92278873006	**MW-8**	RSK 175	DR1	1	PASI-M
		EPA 200.7	CDF	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	71	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 3500-Fe B	WRC	1	PASI-A
		EPA 300.0	MDW	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
92278873007	**DUP-1**	RSK 175	DR1	1	PASI-M
		EPA 200.7	CDF	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	71	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 3500-Fe B	WRC	1	PASI-A
		EPA 300.0	MDW	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
92278873008	**EQUIP BLANK**	RSK 175	DR1	1	PASI-M
		EPA 200.7	CDF	1	PASI-A
		EPA 8270	RES	74	PASI-C
		EPA 8260	GAW	71	PASI-C
		EPA 8260B Mod.	DLK	3	PASI-C
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 3500-Fe B	WRC	1	PASI-A
		EPA 300.0	MDW	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
92278873009	**TRIP BLANK**	EPA 8260	GAW	71	PASI-C

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SUMMARY OF DETECTION

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92278873001	**MW-2**					
RSK 175	Methane	1.4J	ug/L	10.0	12/14/15 10:51	
EPA 200.7	Iron	5060	ug/L	50.0	12/11/15 23:52	
EPA 8260	Tetrachloroethene	12.6	ug/L	5.0	12/18/15 22:02	
SM 3500-Fe D#4	Iron, Ferric	5.1	mg/L	0.50	12/15/15 17:09	
EPA 353.2	Nitrogen, Nitrate	0.26	mg/L	0.020	12/08/15 23:35	
92278873002	**MW-3**					
RSK 175	Methane	1.1J	ug/L	10.0	12/14/15 11:24	
EPA 200.7	Iron	4500	ug/L	50.0	12/12/15 00:01	
EPA 8260	Tetrachloroethene	4.4J	ug/L	5.0	12/18/15 19:12	
SM 3500-Fe D#4	Iron, Ferric	4.5	mg/L	0.50	12/15/15 17:09	
EPA 353.2	Nitrogen, Nitrate	0.16	mg/L	0.020	12/08/15 23:31	
92278873003	**MW-5**					
RSK 175	Methane	34.9	ug/L	10.0	12/14/15 10:59	
EPA 200.7	Iron	96.5	ug/L	50.0	12/12/15 00:04	
EPA 300.0	Sulfate	5.7	mg/L	2.0	12/09/15 14:52	
92278873004	**MW-6**					
RSK 175	Methane	1.0J	ug/L	10.0	12/14/15 11:40	
EPA 200.7	Iron	945	ug/L	50.0	12/12/15 00:17	
EPA 8270	1-Methylnaphthalene	3.2J	ug/L	10.0	12/16/15 00:06	
EPA 8270	2-Methylnaphthalene	6.1J	ug/L	10.0	12/16/15 00:06	
EPA 8270	Naphthalene	4.5J	ug/L	10.0	12/16/15 00:06	
EPA 8260	Tetrachloroethene	3.4J	ug/L	5.0	12/18/15 21:11	
SM 3500-Fe D#4	Iron, Ferric	0.92	mg/L	0.50	12/15/15 17:09	
EPA 300.0	Sulfate	7.7	mg/L	2.0	12/09/15 14:52	
EPA 353.2	Nitrogen, Nitrate	0.040	mg/L	0.020	12/08/15 23:25	
92278873005	**MW-7**					
RSK 175	Methane	2.7J	ug/L	10.0	12/14/15 11:48	
EPA 200.7	Iron	3070	ug/L	50.0	12/12/15 00:20	
EPA 8260	1,2-Dichloroethene (Total)	41.3	ug/L	5.0	12/21/15 08:57	
EPA 8260	cis-1,2-Dichloroethene	41.3	ug/L	5.0	12/21/15 08:57	
EPA 8260	Tetrachloroethene	177	ug/L	5.0	12/21/15 08:57	
EPA 8260	Trichloroethene	11.5	ug/L	5.0	12/21/15 08:57	
SM 3500-Fe D#4	Iron, Ferric	2.9	mg/L	0.50	12/15/15 17:09	
EPA 300.0	Sulfate	5.0	mg/L	2.0	12/09/15 14:52	
EPA 353.2	Nitrogen, Nitrate	0.10	mg/L	0.020	12/08/15 23:38	
92278873006	**MW-8**					
EPA 200.7	Iron	441	ug/L	50.0	12/12/15 00:23	
EPA 8260	1,2-Dichloroethene (Total)	9.3	ug/L	5.0	12/18/15 21:28	
EPA 8260	cis-1,2-Dichloroethene	9.3	ug/L	5.0	12/18/15 21:28	
EPA 8260	Tetrachloroethene	73.8	ug/L	5.0	12/18/15 21:28	
EPA 8260	Trichloroethene	2.8J	ug/L	5.0	12/18/15 21:28	
SM 3500-Fe D#4	Iron, Ferric	0.41J	mg/L	0.50	12/15/15 17:09	
EPA 300.0	Sulfate	1.5J	mg/L	2.0	12/09/15 14:52	
EPA 353.2	Nitrogen, Nitrate	0.39	mg/L	0.020	12/08/15 23:36	

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SUMMARY OF DETECTION

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92278873007	**DUP-1**					
RSK 175	Methane	6.4J	ug/L	10.0	12/14/15 12:05	
EPA 200.7	Iron	1350	ug/L	50.0	12/12/15 00:26	
EPA 8260	1,2-Dichloroethene (Total)	9.7	ug/L	5.0	12/18/15 21:45	
EPA 8260	cis-1,2-Dichloroethene	9.7	ug/L	5.0	12/18/15 21:45	
EPA 8260	Tetrachloroethene	77.0	ug/L	5.0	12/18/15 21:45	
EPA 8260	Trichloroethene	3.4J	ug/L	5.0	12/18/15 21:45	
SM 3500-Fe D#4	Iron, Ferric	1.2	mg/L	0.50	12/15/15 17:09	
EPA 300.0	Sulfate	2.0J	mg/L	2.0	12/09/15 14:52	
EPA 353.2	Nitrogen, Nitrate	0.37	mg/L	0.020	12/08/15 23:10	
92278873008	**EQUIP BLANK**					
RSK 175	Methane	1.1J	ug/L	10.0	12/14/15 16:53	
EPA 8270	Naphthalene	2.9J	ug/L	10.0	12/16/15 10:47	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-2 **Lab ID: 92278873001** Collected: 12/07/15 14:20 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**1.4J**	ug/L	10.0	0.63	1		12/14/15 10:51	74-82-8	
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Iron	**5060**	ug/L	50.0	25.0	1	12/09/15 19:00	12/11/15 23:52	7439-89-6	
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 22:50	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 22:50	208-96-8	
Aniline	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 22:50	62-53-3	L2
Anthracene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 22:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.72	1	12/13/15 12:56	12/15/15 22:50	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.71	1	12/13/15 12:56	12/15/15 22:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.81	1	12/13/15 12:56	12/15/15 22:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.97	1	12/13/15 12:56	12/15/15 22:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/15/15 22:50	207-08-9	L3
Benzoic Acid	ND	ug/L	50.0	11.1	1	12/13/15 12:56	12/15/15 22:50	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/15/15 22:50	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 22:50	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.75	1	12/13/15 12:56	12/15/15 22:50	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	4.2	1	12/13/15 12:56	12/15/15 22:50	59-50-7	L3
4-Chloroaniline	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/15/15 22:50	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 22:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 22:50	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/15/15 22:50	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/15/15 22:50	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 22:50	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/15/15 22:50	7005-72-3	
Chrysene	ND	ug/L	10.0	0.65	1	12/13/15 12:56	12/15/15 22:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.70	1	12/13/15 12:56	12/15/15 22:50	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 22:50	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/15/15 22:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 22:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/15/15 22:50	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1.4	1	12/13/15 12:56	12/15/15 22:50	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 22:50	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 22:50	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/15/15 22:50	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 22:50	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 22:50	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.7	1	12/13/15 12:56	12/15/15 22:50	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	6.5	1	12/13/15 12:56	12/15/15 22:50	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/15/15 22:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 22:50	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.86	1	12/13/15 12:56	12/15/15 22:50	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/13/15 12:56	12/15/15 22:50	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/15/15 22:50	206-44-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-2 **Lab ID: 92278873001** Collected: 12/07/15 14:20 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Fluorene	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/15/15 22:50	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 22:50	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 22:50	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 22:50	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 22:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 22:50	193-39-5	
Isophorone	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 22:50	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 22:50	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 22:50	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 22:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 22:50		
Naphthalene	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 22:50	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.8	1	12/13/15 12:56	12/15/15 22:50	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.4	1	12/13/15 12:56	12/15/15 22:50	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.5	1	12/13/15 12:56	12/15/15 22:50	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 22:50	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 22:50	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	5.8	1	12/13/15 12:56	12/15/15 22:50	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 22:50	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/15/15 22:50	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 22:50	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	2.3	1	12/13/15 12:56	12/15/15 22:50	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.0	1	12/13/15 12:56	12/15/15 22:50	85-01-8	
Phenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 22:50	108-95-2	
Pyrene	ND	ug/L	10.0	0.53	1	12/13/15 12:56	12/15/15 22:50	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/15/15 22:50	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/15/15 22:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/15/15 22:50	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	68	%	21-110		1	12/13/15 12:56	12/15/15 22:50	4165-60-0	P2
2-Fluorobiphenyl (S)	62	%	27-110		1	12/13/15 12:56	12/15/15 22:50	321-60-8	
Terphenyl-d14 (S)	100	%	31-107		1	12/13/15 12:56	12/15/15 22:50	1718-51-0	
Phenol-d6 (S)	14	%	10-110		1	12/13/15 12:56	12/15/15 22:50	13127-88-3	
2-Fluorophenol (S)	8	%	12-110		1	12/13/15 12:56	12/15/15 22:50	367-12-4	S0
2,4,6-Tribromophenol (S)	19	%	27-110		1	12/13/15 12:56	12/15/15 22:50	118-79-6	S0
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/18/15 22:02	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/18/15 22:02	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:02	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/18/15 22:02	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/18/15 22:02	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/18/15 22:02	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/18/15 22:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/18/15 22:02	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/18/15 22:02	75-65-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-2 **Lab ID: 92278873001** Collected: 12/07/15 14:20 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/18/15 22:02	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/18/15 22:02	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 22:02	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/18/15 22:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 22:02	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/18/15 22:02	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/18/15 22:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/18/15 22:02	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/18/15 22:02	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/18/15 22:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/18/15 22:02	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/18/15 22:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/18/15 22:02	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/18/15 22:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/18/15 22:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 22:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 22:02	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	4.4	1		12/18/15 22:02	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 22:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 22:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 22:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/18/15 22:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/18/15 22:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 22:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 22:02	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/18/15 22:02	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 22:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/18/15 22:02	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/18/15 22:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/18/15 22:02	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/18/15 22:02	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/18/15 22:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/18/15 22:02	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/18/15 22:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/18/15 22:02	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:02	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/18/15 22:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/18/15 22:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/18/15 22:02	79-34-5	
Tetrachloroethene	**12.6**	ug/L	5.0	1.8	1		12/18/15 22:02	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/18/15 22:02	108-88-3	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-2 **Lab ID: 92278873001** Collected: 12/07/15 14:20 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/18/15 22:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 22:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/18/15 22:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/18/15 22:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/18/15 22:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/18/15 22:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/18/15 22:02	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/18/15 22:02	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 22:02	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/18/15 22:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/18/15 22:02	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/18/15 22:02	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/18/15 22:02	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		12/18/15 22:02	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1.9	1		12/16/15 03:00	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%	50-150		1		12/16/15 03:00	17060-07-0	
Toluene-d8 (S)	93	%	50-150		1		12/16/15 03:00	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4								
Iron, Ferric	**5.1**	mg/L	0.50	0.25	1		12/15/15 17:09	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/09/15 13:45		H1,N2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	mg/L	2.0	1.0	1		12/09/15 14:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.26**	mg/L	0.020	0.010	1		12/08/15 23:35		

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-3 **Lab ID: 92278873002** Collected: 12/07/15 13:30 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**1.1J**	ug/L	10.0	0.63	1		12/14/15 11:24	74-82-8	
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Iron	**4500**	ug/L	50.0	25.0	1	12/09/15 19:00	12/12/15 00:01	7439-89-6	
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:15	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:15	208-96-8	
Aniline	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 23:15	62-53-3	L2
Anthracene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 23:15	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.72	1	12/13/15 12:56	12/15/15 23:15	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.71	1	12/13/15 12:56	12/15/15 23:15	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.81	1	12/13/15 12:56	12/15/15 23:15	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.97	1	12/13/15 12:56	12/15/15 23:15	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/15/15 23:15	207-08-9	L3
Benzoic Acid	ND	ug/L	50.0	11.1	1	12/13/15 12:56	12/15/15 23:15	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/15/15 23:15	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 23:15	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.75	1	12/13/15 12:56	12/15/15 23:15	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	4.2	1	12/13/15 12:56	12/15/15 23:15	59-50-7	L3
4-Chloroaniline	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/15/15 23:15	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:15	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 23:15	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/15/15 23:15	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/15/15 23:15	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 23:15	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/15/15 23:15	7005-72-3	
Chrysene	ND	ug/L	10.0	0.65	1	12/13/15 12:56	12/15/15 23:15	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.70	1	12/13/15 12:56	12/15/15 23:15	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:15	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/15/15 23:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 23:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/15/15 23:15	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1.4	1	12/13/15 12:56	12/15/15 23:15	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:15	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 23:15	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/15/15 23:15	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 23:15	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 23:15	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.7	1	12/13/15 12:56	12/15/15 23:15	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	6.5	1	12/13/15 12:56	12/15/15 23:15	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/15/15 23:15	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:15	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.86	1	12/13/15 12:56	12/15/15 23:15	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/13/15 12:56	12/15/15 23:15	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/15/15 23:15	206-44-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-3 **Lab ID: 92278873002** Collected: 12/07/15 13:30 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Fluorene	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/15/15 23:15	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:15	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 23:15	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:15	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 23:15	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:15	193-39-5	
Isophorone	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:15	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:15	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:15	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:15	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:15		
Naphthalene	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 23:15	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.8	1	12/13/15 12:56	12/15/15 23:15	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.4	1	12/13/15 12:56	12/15/15 23:15	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.5	1	12/13/15 12:56	12/15/15 23:15	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:15	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:15	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	5.8	1	12/13/15 12:56	12/15/15 23:15	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 23:15	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/15/15 23:15	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 23:15	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	2.3	1	12/13/15 12:56	12/15/15 23:15	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.0	1	12/13/15 12:56	12/15/15 23:15	85-01-8	
Phenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:15	108-95-2	
Pyrene	ND	ug/L	10.0	0.53	1	12/13/15 12:56	12/15/15 23:15	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/15/15 23:15	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/15/15 23:15	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/15/15 23:15	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	78	%	21-110		1	12/13/15 12:56	12/15/15 23:15	4165-60-0	
2-Fluorobiphenyl (S)	66	%	27-110		1	12/13/15 12:56	12/15/15 23:15	321-60-8	
Terphenyl-d14 (S)	82	%	31-107		1	12/13/15 12:56	12/15/15 23:15	1718-51-0	
Phenol-d6 (S)	19	%	10-110		1	12/13/15 12:56	12/15/15 23:15	13127-88-3	
2-Fluorophenol (S)	23	%	12-110		1	12/13/15 12:56	12/15/15 23:15	367-12-4	
2,4,6-Tribromophenol (S)	53	%	27-110		1	12/13/15 12:56	12/15/15 23:15	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/18/15 19:12	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/18/15 19:12	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/18/15 19:12	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/18/15 19:12	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/18/15 19:12	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/18/15 19:12	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/18/15 19:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/18/15 19:12	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/18/15 19:12	75-65-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-3 **Lab ID: 92278873002** Collected: 12/07/15 13:30 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/18/15 19:12	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/18/15 19:12	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 19:12	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/18/15 19:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 19:12	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/18/15 19:12	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/18/15 19:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/18/15 19:12	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/18/15 19:12	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/18/15 19:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/18/15 19:12	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/18/15 19:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/18/15 19:12	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/18/15 19:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 19:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 19:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 19:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/18/15 19:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 19:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 19:12	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	4.4	1		12/18/15 19:12	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 19:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 19:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 19:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 19:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 19:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/18/15 19:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/18/15 19:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 19:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 19:12	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/18/15 19:12	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 19:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/18/15 19:12	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/18/15 19:12	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/18/15 19:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/18/15 19:12	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/18/15 19:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/18/15 19:12	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/18/15 19:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/18/15 19:12	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 19:12	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/18/15 19:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/18/15 19:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/18/15 19:12	79-34-5	
Tetrachloroethene	**4.4J**	ug/L	5.0	1.8	1		12/18/15 19:12	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/18/15 19:12	108-88-3	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-3 **Lab ID: 92278873002** Collected: 12/07/15 13:30 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/18/15 19:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 19:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/18/15 19:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/18/15 19:12	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 19:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/18/15 19:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/18/15 19:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 19:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/18/15 19:12	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/18/15 19:12	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 19:12	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/18/15 19:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/18/15 19:12	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/18/15 19:12	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/18/15 19:12	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/18/15 19:12	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1.9	1		12/16/15 03:21	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%	50-150		1		12/16/15 03:21	17060-07-0	
Toluene-d8 (S)	92	%	50-150		1		12/16/15 03:21	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4								
Iron, Ferric	**4.5**	mg/L	0.50	0.25	1		12/15/15 17:09	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/09/15 13:45		H3,N2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	mg/L	2.0	1.0	1		12/09/15 14:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.16**	mg/L	0.020	0.010	1		12/08/15 23:31		

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-5 **Lab ID: 92278873003** Collected: 12/07/15 16:30 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**34.9**	ug/L	10.0	0.63	1		12/14/15 10:59	74-82-8	
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Iron	**96.5**	ug/L	50.0	25.0	1	12/09/15 19:00	12/12/15 00:04	7439-89-6	
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:40	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:40	208-96-8	
Aniline	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 23:40	62-53-3	L2
Anthracene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 23:40	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.72	1	12/13/15 12:56	12/15/15 23:40	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.71	1	12/13/15 12:56	12/15/15 23:40	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.81	1	12/13/15 12:56	12/15/15 23:40	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.97	1	12/13/15 12:56	12/15/15 23:40	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/15/15 23:40	207-08-9	L3
Benzoic Acid	ND	ug/L	50.0	11.1	1	12/13/15 12:56	12/15/15 23:40	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/15/15 23:40	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 23:40	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.75	1	12/13/15 12:56	12/15/15 23:40	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	4.2	1	12/13/15 12:56	12/15/15 23:40	59-50-7	L3
4-Chloroaniline	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/15/15 23:40	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:40	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 23:40	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/15/15 23:40	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/15/15 23:40	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 23:40	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/15/15 23:40	7005-72-3	
Chrysene	ND	ug/L	10.0	0.65	1	12/13/15 12:56	12/15/15 23:40	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.70	1	12/13/15 12:56	12/15/15 23:40	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:40	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/15/15 23:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 23:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/15/15 23:40	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1.4	1	12/13/15 12:56	12/15/15 23:40	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:40	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 23:40	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/15/15 23:40	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 23:40	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 23:40	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.7	1	12/13/15 12:56	12/15/15 23:40	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	6.5	1	12/13/15 12:56	12/15/15 23:40	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/15/15 23:40	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:40	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.86	1	12/13/15 12:56	12/15/15 23:40	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/13/15 12:56	12/15/15 23:40	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/15/15 23:40	206-44-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-5 **Lab ID: 92278873003** Collected: 12/07/15 16:30 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Fluorene	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/15/15 23:40	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:40	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/15/15 23:40	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:40	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 23:40	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:40	193-39-5	
Isophorone	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:40	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/15/15 23:40	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:40	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:40	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:40		
Naphthalene	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/15/15 23:40	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.8	1	12/13/15 12:56	12/15/15 23:40	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.4	1	12/13/15 12:56	12/15/15 23:40	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.5	1	12/13/15 12:56	12/15/15 23:40	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:40	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:40	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	5.8	1	12/13/15 12:56	12/15/15 23:40	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 23:40	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/15/15 23:40	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/15/15 23:40	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	2.3	1	12/13/15 12:56	12/15/15 23:40	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.0	1	12/13/15 12:56	12/15/15 23:40	85-01-8	
Phenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/15/15 23:40	108-95-2	
Pyrene	ND	ug/L	10.0	0.53	1	12/13/15 12:56	12/15/15 23:40	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/15/15 23:40	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/15/15 23:40	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/15/15 23:40	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	79	%	21-110		1	12/13/15 12:56	12/15/15 23:40	4165-60-0	
2-Fluorobiphenyl (S)	74	%	27-110		1	12/13/15 12:56	12/15/15 23:40	321-60-8	
Terphenyl-d14 (S)	98	%	31-107		1	12/13/15 12:56	12/15/15 23:40	1718-51-0	
Phenol-d6 (S)	19	%	10-110		1	12/13/15 12:56	12/15/15 23:40	13127-88-3	
2-Fluorophenol (S)	12	%	12-110		1	12/13/15 12:56	12/15/15 23:40	367-12-4	
2,4,6-Tribromophenol (S)	22	%	27-110		1	12/13/15 12:56	12/15/15 23:40	118-79-6	S0
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/18/15 20:54	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/18/15 20:54	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/18/15 20:54	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/18/15 20:54	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/18/15 20:54	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/18/15 20:54	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/18/15 20:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/18/15 20:54	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/18/15 20:54	75-65-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-5 **Lab ID: 92278873003** Collected: 12/07/15 16:30 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/18/15 20:54	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/18/15 20:54	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 20:54	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/18/15 20:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 20:54	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/18/15 20:54	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/18/15 20:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/18/15 20:54	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/18/15 20:54	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/18/15 20:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/18/15 20:54	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/18/15 20:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/18/15 20:54	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/18/15 20:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 20:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 20:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 20:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/18/15 20:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 20:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 20:54	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	4.4	1		12/18/15 20:54	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 20:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 20:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 20:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/18/15 20:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/18/15 20:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 20:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 20:54	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/18/15 20:54	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 20:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/18/15 20:54	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/18/15 20:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/18/15 20:54	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/18/15 20:54	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/18/15 20:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/18/15 20:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/18/15 20:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/18/15 20:54	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 20:54	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/18/15 20:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/18/15 20:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/18/15 20:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:54	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/18/15 20:54	108-88-3	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-5 **Lab ID: 92278873003** Collected: 12/07/15 16:30 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/18/15 20:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 20:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/18/15 20:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/18/15 20:54	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/18/15 20:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/18/15 20:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 20:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/18/15 20:54	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/18/15 20:54	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 20:54	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/18/15 20:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/18/15 20:54	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		12/18/15 20:54	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		12/18/15 20:54	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/18/15 20:54	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1.9	1		12/16/15 03:41	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	50-150		1		12/16/15 03:41	17060-07-0	
Toluene-d8 (S)	90	%	50-150		1		12/16/15 03:41	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4								
Iron, Ferric	ND	mg/L	0.50	0.25	1		12/15/15 17:09	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/09/15 13:45		H1,N2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**5.7**	mg/L	2.0	1.0	1		12/09/15 14:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		12/08/15 23:37		

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-6 **Lab ID: 92278873004** Collected: 12/07/15 10:35 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**1.0J**	ug/L	10.0	0.63	1		12/14/15 11:40	74-82-8	
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Iron	**945**	ug/L	50.0	25.0	1	12/09/15 19:00	12/12/15 00:17	7439-89-6	
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 00:06	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 00:06	208-96-8	
Aniline	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 00:06	62-53-3	L2
Anthracene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 00:06	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.72	1	12/13/15 12:56	12/16/15 00:06	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.71	1	12/13/15 12:56	12/16/15 00:06	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.81	1	12/13/15 12:56	12/16/15 00:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.97	1	12/13/15 12:56	12/16/15 00:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/16/15 00:06	207-08-9	L3
Benzoic Acid	ND	ug/L	50.0	11.1	1	12/13/15 12:56	12/16/15 00:06	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/16/15 00:06	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 00:06	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.75	1	12/13/15 12:56	12/16/15 00:06	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	4.2	1	12/13/15 12:56	12/16/15 00:06	59-50-7	L3
4-Chloroaniline	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/16/15 00:06	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 00:06	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 00:06	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/16/15 00:06	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 00:06	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 00:06	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/16/15 00:06	7005-72-3	
Chrysene	ND	ug/L	10.0	0.65	1	12/13/15 12:56	12/16/15 00:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.70	1	12/13/15 12:56	12/16/15 00:06	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 00:06	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 00:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 00:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 00:06	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1.4	1	12/13/15 12:56	12/16/15 00:06	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 00:06	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 00:06	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 00:06	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 00:06	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 00:06	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.7	1	12/13/15 12:56	12/16/15 00:06	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	6.5	1	12/13/15 12:56	12/16/15 00:06	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 00:06	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 00:06	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.86	1	12/13/15 12:56	12/16/15 00:06	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/13/15 12:56	12/16/15 00:06	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/16/15 00:06	206-44-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-6 **Lab ID: 92278873004** Collected: 12/07/15 10:35 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Fluorene	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/16/15 00:06	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 00:06	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 00:06	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 00:06	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 00:06	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 00:06	193-39-5	
Isophorone	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 00:06	78-59-1	
1-Methylnaphthalene	**3.2J**	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 00:06	90-12-0	
2-Methylnaphthalene	**6.1J**	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 00:06	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 00:06	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 00:06		
Naphthalene	**4.5J**	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 00:06	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.8	1	12/13/15 12:56	12/16/15 00:06	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.4	1	12/13/15 12:56	12/16/15 00:06	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.5	1	12/13/15 12:56	12/16/15 00:06	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 00:06	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 00:06	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	5.8	1	12/13/15 12:56	12/16/15 00:06	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 00:06	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/16/15 00:06	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 00:06	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	2.3	1	12/13/15 12:56	12/16/15 00:06	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.0	1	12/13/15 12:56	12/16/15 00:06	85-01-8	
Phenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 00:06	108-95-2	
Pyrene	ND	ug/L	10.0	0.53	1	12/13/15 12:56	12/16/15 00:06	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/16/15 00:06	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 00:06	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/16/15 00:06	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	79	%	21-110		1	12/13/15 12:56	12/16/15 00:06	4165-60-0	
2-Fluorobiphenyl (S)	75	%	27-110		1	12/13/15 12:56	12/16/15 00:06	321-60-8	
Terphenyl-d14 (S)	94	%	31-107		1	12/13/15 12:56	12/16/15 00:06	1718-51-0	
Phenol-d6 (S)	24	%	10-110		1	12/13/15 12:56	12/16/15 00:06	13127-88-3	
2-Fluorophenol (S)	31	%	12-110		1	12/13/15 12:56	12/16/15 00:06	367-12-4	
2,4,6-Tribromophenol (S)	64	%	27-110		1	12/13/15 12:56	12/16/15 00:06	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/18/15 21:11	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/18/15 21:11	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:11	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/18/15 21:11	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/18/15 21:11	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/18/15 21:11	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/18/15 21:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/18/15 21:11	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/18/15 21:11	75-65-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-6 **Lab ID: 92278873004** Collected: 12/07/15 10:35 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/18/15 21:11	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/18/15 21:11	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 21:11	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/18/15 21:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 21:11	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/18/15 21:11	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/18/15 21:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/18/15 21:11	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/18/15 21:11	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/18/15 21:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/18/15 21:11	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/18/15 21:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/18/15 21:11	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/18/15 21:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/18/15 21:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 21:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 21:11	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	4.4	1		12/18/15 21:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 21:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 21:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 21:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 21:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 21:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/18/15 21:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/18/15 21:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 21:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 21:11	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/18/15 21:11	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 21:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/18/15 21:11	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/18/15 21:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/18/15 21:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/18/15 21:11	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/18/15 21:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/18/15 21:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/18/15 21:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/18/15 21:11	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:11	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/18/15 21:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/18/15 21:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/18/15 21:11	79-34-5	
Tetrachloroethene	**3.4J**	ug/L	5.0	1.8	1		12/18/15 21:11	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/18/15 21:11	108-88-3	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-6 **Lab ID: 92278873004** Collected: 12/07/15 10:35 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/18/15 21:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 21:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/18/15 21:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/18/15 21:11	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 21:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/18/15 21:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/18/15 21:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/18/15 21:11	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/18/15 21:11	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 21:11	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/18/15 21:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/18/15 21:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/18/15 21:11	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		12/18/15 21:11	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		12/18/15 21:11	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1.9	1		12/16/15 04:01	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	101	%	50-150		1		12/16/15 04:01	17060-07-0	
Toluene-d8 (S)	90	%	50-150		1		12/16/15 04:01	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4								
Iron, Ferric	**0.92**	mg/L	0.50	0.25	1		12/15/15 17:09	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/09/15 13:45		H3,N2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**7.7**	mg/L	2.0	1.0	1		12/09/15 14:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.040**	mg/L	0.020	0.010	1		12/08/15 23:25		

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-7 **Lab ID: 92278873005** Collected: 12/07/15 17:15 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**2.7J**	ug/L	10.0	0.63	1		12/14/15 11:48	74-82-8	
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Iron	**3070**	ug/L	50.0	25.0	1	12/09/15 19:00	12/12/15 00:20	7439-89-6	
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:32	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:32	208-96-8	
Aniline	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 09:32	62-53-3	L2
Anthracene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 09:32	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.72	1	12/13/15 12:56	12/16/15 09:32	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.71	1	12/13/15 12:56	12/16/15 09:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.81	1	12/13/15 12:56	12/16/15 09:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.97	1	12/13/15 12:56	12/16/15 09:32	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/16/15 09:32	207-08-9	L3
Benzoic Acid	ND	ug/L	50.0	11.1	1	12/13/15 12:56	12/16/15 09:32	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/16/15 09:32	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 09:32	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.75	1	12/13/15 12:56	12/16/15 09:32	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	4.2	1	12/13/15 12:56	12/16/15 09:32	59-50-7	L3
4-Chloroaniline	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/16/15 09:32	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:32	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 09:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/16/15 09:32	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 09:32	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 09:32	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/16/15 09:32	7005-72-3	
Chrysene	ND	ug/L	10.0	0.65	1	12/13/15 12:56	12/16/15 09:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.70	1	12/13/15 12:56	12/16/15 09:32	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:32	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 09:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 09:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 09:32	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1.4	1	12/13/15 12:56	12/16/15 09:32	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:32	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 09:32	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 09:32	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 09:32	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 09:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.7	1	12/13/15 12:56	12/16/15 09:32	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	6.5	1	12/13/15 12:56	12/16/15 09:32	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 09:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:32	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.86	1	12/13/15 12:56	12/16/15 09:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/13/15 12:56	12/16/15 09:32	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/16/15 09:32	206-44-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-7 **Lab ID: 92278873005** Collected: 12/07/15 17:15 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Fluorene	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/16/15 09:32	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:32	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 09:32	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:32	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 09:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:32	193-39-5	
Isophorone	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:32	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:32	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:32	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:32		
Naphthalene	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 09:32	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.8	1	12/13/15 12:56	12/16/15 09:32	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.4	1	12/13/15 12:56	12/16/15 09:32	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.5	1	12/13/15 12:56	12/16/15 09:32	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:32	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:32	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	5.8	1	12/13/15 12:56	12/16/15 09:32	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 09:32	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/16/15 09:32	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 09:32	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	2.3	1	12/13/15 12:56	12/16/15 09:32	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.0	1	12/13/15 12:56	12/16/15 09:32	85-01-8	
Phenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:32	108-95-2	
Pyrene	ND	ug/L	10.0	0.53	1	12/13/15 12:56	12/16/15 09:32	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/16/15 09:32	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 09:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/16/15 09:32	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	71	%	21-110		1	12/13/15 12:56	12/16/15 09:32	4165-60-0	
2-Fluorobiphenyl (S)	67	%	27-110		1	12/13/15 12:56	12/16/15 09:32	321-60-8	
Terphenyl-d14 (S)	91	%	31-107		1	12/13/15 12:56	12/16/15 09:32	1718-51-0	
Phenol-d6 (S)	21	%	10-110		1	12/13/15 12:56	12/16/15 09:32	13127-88-3	
2-Fluorophenol (S)	19	%	12-110		1	12/13/15 12:56	12/16/15 09:32	367-12-4	
2,4,6-Tribromophenol (S)	59	%	27-110		1	12/13/15 12:56	12/16/15 09:32	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/21/15 08:57	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/21/15 08:57	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/21/15 08:57	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/21/15 08:57	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/21/15 08:57	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/21/15 08:57	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/21/15 08:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/21/15 08:57	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/21/15 08:57	75-65-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-7 **Lab ID: 92278873005** Collected: 12/07/15 17:15 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/21/15 08:57	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/21/15 08:57	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/21/15 08:57	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/21/15 08:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/21/15 08:57	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/21/15 08:57	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/21/15 08:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/21/15 08:57	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/21/15 08:57	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/21/15 08:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/21/15 08:57	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/21/15 08:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/21/15 08:57	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/21/15 08:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 08:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 08:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 08:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/21/15 08:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/21/15 08:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/21/15 08:57	107-06-2	
1,2-Dichloroethene (Total)	**41.3**	ug/L	5.0	4.4	1		12/21/15 08:57	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/21/15 08:57	75-35-4	
cis-1,2-Dichloroethene	**41.3**	ug/L	5.0	1.8	1		12/21/15 08:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 08:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/21/15 08:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/21/15 08:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/21/15 08:57	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/21/15 08:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/21/15 08:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/21/15 08:57	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/21/15 08:57	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/21/15 08:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/21/15 08:57	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/21/15 08:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/21/15 08:57	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/21/15 08:57	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/21/15 08:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/21/15 08:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/21/15 08:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/21/15 08:57	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/21/15 08:57	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/21/15 08:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/21/15 08:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/21/15 08:57	79-34-5	
Tetrachloroethene	**177**	ug/L	5.0	1.8	1		12/21/15 08:57	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/21/15 08:57	108-88-3	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-7 **Lab ID: 92278873005** Collected: 12/07/15 17:15 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/21/15 08:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/21/15 08:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/21/15 08:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/21/15 08:57	79-00-5	
Trichloroethene	**11.5**	ug/L	5.0	1.8	1		12/21/15 08:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/21/15 08:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/21/15 08:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/21/15 08:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/21/15 08:57	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/21/15 08:57	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/21/15 08:57	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/21/15 08:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/21/15 08:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/21/15 08:57	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		12/21/15 08:57	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		12/21/15 08:57	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1.9	1		12/16/15 04:21	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	50-150		1		12/16/15 04:21	17060-07-0	
Toluene-d8 (S)	91	%	50-150		1		12/16/15 04:21	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4								
Iron, Ferric	**2.9**	mg/L	0.50	0.25	1		12/15/15 17:09	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/09/15 13:45		H1,N2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**5.0**	mg/L	2.0	1.0	1		12/09/15 14:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.10**	mg/L	0.020	0.010	1		12/08/15 23:38		

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-8 **Lab ID: 92278873006** Collected: 12/07/15 15:20 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	ND	ug/L	10.0	0.63	1		12/14/15 11:57	74-82-8	
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Iron	**441**	ug/L	50.0	25.0	1	12/09/15 19:00	12/12/15 00:23	7439-89-6	
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:57	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:57	208-96-8	
Aniline	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 09:57	62-53-3	L2
Anthracene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 09:57	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.72	1	12/13/15 12:56	12/16/15 09:57	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.71	1	12/13/15 12:56	12/16/15 09:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.81	1	12/13/15 12:56	12/16/15 09:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.97	1	12/13/15 12:56	12/16/15 09:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/16/15 09:57	207-08-9	L3
Benzoic Acid	ND	ug/L	50.0	11.1	1	12/13/15 12:56	12/16/15 09:57	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/16/15 09:57	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 09:57	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.75	1	12/13/15 12:56	12/16/15 09:57	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	4.2	1	12/13/15 12:56	12/16/15 09:57	59-50-7	L3
4-Chloroaniline	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/16/15 09:57	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:57	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 09:57	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/16/15 09:57	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 09:57	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 09:57	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/16/15 09:57	7005-72-3	
Chrysene	ND	ug/L	10.0	0.65	1	12/13/15 12:56	12/16/15 09:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.70	1	12/13/15 12:56	12/16/15 09:57	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:57	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 09:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 09:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 09:57	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1.4	1	12/13/15 12:56	12/16/15 09:57	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:57	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 09:57	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 09:57	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 09:57	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 09:57	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.7	1	12/13/15 12:56	12/16/15 09:57	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	6.5	1	12/13/15 12:56	12/16/15 09:57	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 09:57	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:57	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.86	1	12/13/15 12:56	12/16/15 09:57	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/13/15 12:56	12/16/15 09:57	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/16/15 09:57	206-44-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-8 **Lab ID: 92278873006** Collected: 12/07/15 15:20 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Fluorene	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/16/15 09:57	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:57	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 09:57	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:57	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 09:57	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:57	193-39-5	
Isophorone	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:57	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 09:57	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:57	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:57		
Naphthalene	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 09:57	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.8	1	12/13/15 12:56	12/16/15 09:57	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.4	1	12/13/15 12:56	12/16/15 09:57	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.5	1	12/13/15 12:56	12/16/15 09:57	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:57	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:57	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	5.8	1	12/13/15 12:56	12/16/15 09:57	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 09:57	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/16/15 09:57	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 09:57	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	2.3	1	12/13/15 12:56	12/16/15 09:57	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.0	1	12/13/15 12:56	12/16/15 09:57	85-01-8	
Phenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 09:57	108-95-2	
Pyrene	ND	ug/L	10.0	0.53	1	12/13/15 12:56	12/16/15 09:57	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/16/15 09:57	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 09:57	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/16/15 09:57	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	68	%	21-110		1	12/13/15 12:56	12/16/15 09:57	4165-60-0	
2-Fluorobiphenyl (S)	67	%	27-110		1	12/13/15 12:56	12/16/15 09:57	321-60-8	
Terphenyl-d14 (S)	76	%	31-107		1	12/13/15 12:56	12/16/15 09:57	1718-51-0	
Phenol-d6 (S)	16	%	10-110		1	12/13/15 12:56	12/16/15 09:57	13127-88-3	
2-Fluorophenol (S)	17	%	12-110		1	12/13/15 12:56	12/16/15 09:57	367-12-4	
2,4,6-Tribromophenol (S)	44	%	27-110		1	12/13/15 12:56	12/16/15 09:57	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/18/15 21:28	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/18/15 21:28	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:28	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/18/15 21:28	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/18/15 21:28	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/18/15 21:28	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/18/15 21:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/18/15 21:28	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/18/15 21:28	75-65-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-8 **Lab ID: 92278873006** Collected: 12/07/15 15:20 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/18/15 21:28	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/18/15 21:28	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 21:28	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/18/15 21:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 21:28	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/18/15 21:28	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/18/15 21:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/18/15 21:28	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/18/15 21:28	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/18/15 21:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/18/15 21:28	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/18/15 21:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/18/15 21:28	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/18/15 21:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/18/15 21:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 21:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 21:28	107-06-2	
1,2-Dichloroethene (Total)	**9.3**	ug/L	5.0	4.4	1		12/18/15 21:28	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 21:28	75-35-4	
cis-1,2-Dichloroethene	**9.3**	ug/L	5.0	1.8	1		12/18/15 21:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 21:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 21:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 21:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/18/15 21:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/18/15 21:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 21:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 21:28	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/18/15 21:28	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 21:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/18/15 21:28	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/18/15 21:28	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/18/15 21:28	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/18/15 21:28	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/18/15 21:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/18/15 21:28	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/18/15 21:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/18/15 21:28	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:28	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/18/15 21:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/18/15 21:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/18/15 21:28	79-34-5	
Tetrachloroethene	**73.8**	ug/L	5.0	1.8	1		12/18/15 21:28	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/18/15 21:28	108-88-3	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: MW-8 **Lab ID: 92278873006** Collected: 12/07/15 15:20 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/18/15 21:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 21:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/18/15 21:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/18/15 21:28	79-00-5	
Trichloroethene	**2.8J**	ug/L	5.0	1.8	1		12/18/15 21:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/18/15 21:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/18/15 21:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/18/15 21:28	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/18/15 21:28	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 21:28	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/18/15 21:28	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/18/15 21:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		12/18/15 21:28	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/18/15 21:28	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		12/18/15 21:28	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1.9	1		12/16/15 04:41	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	50-150		1		12/16/15 04:41	17060-07-0	
Toluene-d8 (S)	92	%	50-150		1		12/16/15 04:41	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4								
Iron, Ferric	**0.41J**	mg/L	0.50	0.25	1		12/15/15 17:09	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/09/15 13:45		H1,N2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**1.5J**	mg/L	2.0	1.0	1		12/09/15 14:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.39**	mg/L	0.020	0.010	1		12/08/15 23:36		

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: DUP-1 **Lab ID: 92278873007** Collected: 12/07/15 00:00 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**6.4J**	ug/L	10.0	0.63	1		12/14/15 12:05	74-82-8	
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Iron	**1350**	ug/L	50.0	25.0	1	12/09/15 19:00	12/12/15 00:26	7439-89-6	
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:22	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:22	208-96-8	
Aniline	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 10:22	62-53-3	L2
Anthracene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 10:22	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.72	1	12/13/15 12:56	12/16/15 10:22	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.71	1	12/13/15 12:56	12/16/15 10:22	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.81	1	12/13/15 12:56	12/16/15 10:22	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.97	1	12/13/15 12:56	12/16/15 10:22	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/16/15 10:22	207-08-9	L3
Benzoic Acid	ND	ug/L	50.0	11.1	1	12/13/15 12:56	12/16/15 10:22	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/16/15 10:22	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 10:22	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.75	1	12/13/15 12:56	12/16/15 10:22	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	4.2	1	12/13/15 12:56	12/16/15 10:22	59-50-7	L3
4-Chloroaniline	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/16/15 10:22	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:22	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 10:22	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/16/15 10:22	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 10:22	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 10:22	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/16/15 10:22	7005-72-3	
Chrysene	ND	ug/L	10.0	0.65	1	12/13/15 12:56	12/16/15 10:22	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.70	1	12/13/15 12:56	12/16/15 10:22	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:22	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 10:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 10:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 10:22	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1.4	1	12/13/15 12:56	12/16/15 10:22	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:22	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 10:22	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 10:22	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 10:22	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 10:22	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.7	1	12/13/15 12:56	12/16/15 10:22	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	6.5	1	12/13/15 12:56	12/16/15 10:22	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 10:22	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:22	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.86	1	12/13/15 12:56	12/16/15 10:22	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/13/15 12:56	12/16/15 10:22	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/16/15 10:22	206-44-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: DUP-1 **Lab ID: 92278873007** Collected: 12/07/15 00:00 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Fluorene	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/16/15 10:22	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:22	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 10:22	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:22	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 10:22	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:22	193-39-5	
Isophorone	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:22	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:22	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:22	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:22	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:22		
Naphthalene	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 10:22	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.8	1	12/13/15 12:56	12/16/15 10:22	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.4	1	12/13/15 12:56	12/16/15 10:22	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.5	1	12/13/15 12:56	12/16/15 10:22	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:22	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:22	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	5.8	1	12/13/15 12:56	12/16/15 10:22	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 10:22	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/16/15 10:22	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 10:22	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	2.3	1	12/13/15 12:56	12/16/15 10:22	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.0	1	12/13/15 12:56	12/16/15 10:22	85-01-8	
Phenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:22	108-95-2	
Pyrene	ND	ug/L	10.0	0.53	1	12/13/15 12:56	12/16/15 10:22	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/16/15 10:22	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 10:22	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/16/15 10:22	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	80	%	21-110		1	12/13/15 12:56	12/16/15 10:22	4165-60-0	
2-Fluorobiphenyl (S)	80	%	27-110		1	12/13/15 12:56	12/16/15 10:22	321-60-8	
Terphenyl-d14 (S)	92	%	31-107		1	12/13/15 12:56	12/16/15 10:22	1718-51-0	
Phenol-d6 (S)	14	%	10-110		1	12/13/15 12:56	12/16/15 10:22	13127-88-3	
2-Fluorophenol (S)	15	%	12-110		1	12/13/15 12:56	12/16/15 10:22	367-12-4	
2,4,6-Tribromophenol (S)	53	%	27-110		1	12/13/15 12:56	12/16/15 10:22	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/18/15 21:45	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/18/15 21:45	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:45	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/18/15 21:45	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/18/15 21:45	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/18/15 21:45	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/18/15 21:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/18/15 21:45	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/18/15 21:45	75-65-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: DUP-1 **Lab ID: 92278873007** Collected: 12/07/15 00:00 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/18/15 21:45	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/18/15 21:45	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 21:45	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/18/15 21:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 21:45	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/18/15 21:45	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/18/15 21:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/18/15 21:45	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/18/15 21:45	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/18/15 21:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/18/15 21:45	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/18/15 21:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/18/15 21:45	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/18/15 21:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/18/15 21:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 21:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 21:45	107-06-2	
1,2-Dichloroethene (Total)	**9.7**	ug/L	5.0	4.4	1		12/18/15 21:45	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 21:45	75-35-4	
cis-1,2-Dichloroethene	**9.7**	ug/L	5.0	1.8	1		12/18/15 21:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 21:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 21:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 21:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/18/15 21:45	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/18/15 21:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 21:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 21:45	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/18/15 21:45	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 21:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/18/15 21:45	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/18/15 21:45	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/18/15 21:45	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/18/15 21:45	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/18/15 21:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/18/15 21:45	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/18/15 21:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/18/15 21:45	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:45	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/18/15 21:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/18/15 21:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/18/15 21:45	79-34-5	
Tetrachloroethene	**77.0**	ug/L	5.0	1.8	1		12/18/15 21:45	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/18/15 21:45	108-88-3	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: DUP-1 **Lab ID: 92278873007** Collected: 12/07/15 00:00 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/18/15 21:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 21:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/18/15 21:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/18/15 21:45	79-00-5	
Trichloroethene	**3.4J**	ug/L	5.0	1.8	1		12/18/15 21:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/18/15 21:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/18/15 21:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 21:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/18/15 21:45	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/18/15 21:45	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 21:45	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/18/15 21:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/18/15 21:45	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/18/15 21:45	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		12/18/15 21:45	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		12/18/15 21:45	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1.9	1		12/16/15 05:02	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	98	%	50-150		1		12/16/15 05:02	17060-07-0	
Toluene-d8 (S)	91	%	50-150		1		12/16/15 05:02	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4								
Iron, Ferric	**1.2**	mg/L	0.50	0.25	1		12/15/15 17:09	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/09/15 13:45		H3,N2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**2.0J**	mg/L	2.0	1.0	1		12/09/15 14:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.37**	mg/L	0.020	0.010	1		12/08/15 23:10		

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: EQUIP BLANK **Lab ID: 92278873008** Collected: 12/08/15 10:48 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**1.1J**	ug/L	10.0	0.63	1		12/14/15 16:53	74-82-8	
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Iron	ND	ug/L	50.0	25.0	1	12/09/15 19:00	12/12/15 00:29	7439-89-6	
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:47	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:47	208-96-8	
Aniline	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 10:47	62-53-3	L2
Anthracene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 10:47	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.72	1	12/13/15 12:56	12/16/15 10:47	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.71	1	12/13/15 12:56	12/16/15 10:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.81	1	12/13/15 12:56	12/16/15 10:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.97	1	12/13/15 12:56	12/16/15 10:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/16/15 10:47	207-08-9	L3
Benzoic Acid	ND	ug/L	50.0	11.1	1	12/13/15 12:56	12/16/15 10:47	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/16/15 10:47	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 10:47	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.75	1	12/13/15 12:56	12/16/15 10:47	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	4.2	1	12/13/15 12:56	12/16/15 10:47	59-50-7	L3
4-Chloroaniline	ND	ug/L	20.0	3.4	1	12/13/15 12:56	12/16/15 10:47	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:47	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 10:47	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/16/15 10:47	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 10:47	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 10:47	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/16/15 10:47	7005-72-3	
Chrysene	ND	ug/L	10.0	0.65	1	12/13/15 12:56	12/16/15 10:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.70	1	12/13/15 12:56	12/16/15 10:47	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:47	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 10:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 10:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 10:47	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	1.4	1	12/13/15 12:56	12/16/15 10:47	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:47	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 10:47	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 10:47	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 10:47	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 10:47	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	20.0	1.7	1	12/13/15 12:56	12/16/15 10:47	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	6.5	1	12/13/15 12:56	12/16/15 10:47	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.2	1	12/13/15 12:56	12/16/15 10:47	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:47	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	0.86	1	12/13/15 12:56	12/16/15 10:47	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/13/15 12:56	12/16/15 10:47	117-81-7	
Fluoranthene	ND	ug/L	10.0	0.87	1	12/13/15 12:56	12/16/15 10:47	206-44-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: EQUIP BLANK **Lab ID: 92278873008** Collected: 12/08/15 10:48 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Fluorene	ND	ug/L	10.0	1.6	1	12/13/15 12:56	12/16/15 10:47	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:47	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.1	1	12/13/15 12:56	12/16/15 10:47	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:47	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 10:47	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:47	193-39-5	
Isophorone	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:47	78-59-1	
1-Methylnaphthalene	ND	ug/L	10.0	1.8	1	12/13/15 12:56	12/16/15 10:47	90-12-0	
2-Methylnaphthalene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:47	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:47	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:47		
Naphthalene	**2.9J**	ug/L	10.0	1.5	1	12/13/15 12:56	12/16/15 10:47	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	2.8	1	12/13/15 12:56	12/16/15 10:47	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	2.4	1	12/13/15 12:56	12/16/15 10:47	99-09-2	
4-Nitroaniline	ND	ug/L	20.0	2.5	1	12/13/15 12:56	12/16/15 10:47	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:47	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:47	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	5.8	1	12/13/15 12:56	12/16/15 10:47	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 10:47	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	2.1	1	12/13/15 12:56	12/16/15 10:47	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.3	1	12/13/15 12:56	12/16/15 10:47	86-30-6	
Pentachlorophenol	ND	ug/L	25.0	2.3	1	12/13/15 12:56	12/16/15 10:47	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.0	1	12/13/15 12:56	12/16/15 10:47	85-01-8	
Phenol	ND	ug/L	10.0	1.7	1	12/13/15 12:56	12/16/15 10:47	108-95-2	
Pyrene	ND	ug/L	10.0	0.53	1	12/13/15 12:56	12/16/15 10:47	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/16/15 10:47	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10.0	2.2	1	12/13/15 12:56	12/16/15 10:47	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.9	1	12/13/15 12:56	12/16/15 10:47	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	27	%	21-110		1	12/13/15 12:56	12/16/15 10:47	4165-60-0	P2
2-Fluorobiphenyl (S)	24	%	27-110		1	12/13/15 12:56	12/16/15 10:47	321-60-8	S0
Terphenyl-d14 (S)	85	%	31-107		1	12/13/15 12:56	12/16/15 10:47	1718-51-0	
Phenol-d6 (S)	8	%	10-110		1	12/13/15 12:56	12/16/15 10:47	13127-88-3	S0
2-Fluorophenol (S)	8	%	12-110		1	12/13/15 12:56	12/16/15 10:47	367-12-4	S0
2,4,6-Tribromophenol (S)	45	%	27-110		1	12/13/15 12:56	12/16/15 10:47	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/18/15 22:52	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/18/15 22:52	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:52	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/18/15 22:52	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/18/15 22:52	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/18/15 22:52	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/18/15 22:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/18/15 22:52	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/18/15 22:52	75-65-0	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: EQUIP BLANK **Lab ID: 92278873008** Collected: 12/08/15 10:48 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/18/15 22:52	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/18/15 22:52	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 22:52	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/18/15 22:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 22:52	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/18/15 22:52	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/18/15 22:52	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/18/15 22:52	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/18/15 22:52	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/18/15 22:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/18/15 22:52	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/18/15 22:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/18/15 22:52	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/18/15 22:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/18/15 22:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 22:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 22:52	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	4.4	1		12/18/15 22:52	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 22:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 22:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 22:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/18/15 22:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/18/15 22:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 22:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 22:52	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/18/15 22:52	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 22:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/18/15 22:52	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/18/15 22:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/18/15 22:52	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/18/15 22:52	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/18/15 22:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/18/15 22:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/18/15 22:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/18/15 22:52	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:52	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/18/15 22:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/18/15 22:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/18/15 22:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:52	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/18/15 22:52	108-88-3	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: EQUIP BLANK **Lab ID: 92278873008** Collected: 12/08/15 10:48 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/18/15 22:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 22:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/18/15 22:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/18/15 22:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/18/15 22:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/18/15 22:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/18/15 22:52	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/18/15 22:52	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 22:52	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/18/15 22:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/18/15 22:52	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/18/15 22:52	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/18/15 22:52	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		12/18/15 22:52	2037-26-5	
8260 MSV SIM	Analytical Method: EPA 8260B Mod.								
1,4-Dioxane (p-Dioxane)	ND	ug/L	2.0	1.9	1		12/16/15 05:22	123-91-1	
Surrogates									
1,2-Dichloroethane-d4 (S)	97	%	50-150		1		12/16/15 05:22	17060-07-0	
Toluene-d8 (S)	92	%	50-150		1		12/16/15 05:22	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4								
Iron, Ferric	ND	mg/L	0.50	0.25	1		12/15/15 17:09	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/09/15 13:45		H1,N2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	mg/L	2.0	1.0	1		12/09/15 14:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.020	0.010	1		12/08/15 23:41		

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: TRIP BLANK **Lab ID: 92278873009** Collected: 12/08/15 00:00 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/18/15 22:35	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/18/15 22:35	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:35	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/18/15 22:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/18/15 22:35	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/18/15 22:35	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/18/15 22:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/18/15 22:35	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/18/15 22:35	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/18/15 22:35	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/18/15 22:35	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 22:35	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/18/15 22:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 22:35	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/18/15 22:35	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/18/15 22:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/18/15 22:35	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/18/15 22:35	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/18/15 22:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/18/15 22:35	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/18/15 22:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/18/15 22:35	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/18/15 22:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/18/15 22:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 22:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/18/15 22:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	4.4	1		12/18/15 22:35	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 22:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 22:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/18/15 22:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/18/15 22:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/18/15 22:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 22:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/18/15 22:35	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/18/15 22:35	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/18/15 22:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/18/15 22:35	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/18/15 22:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/18/15 22:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/18/15 22:35	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/18/15 22:35	75-09-2	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Sample: TRIP BLANK **Lab ID: 92278873009** Collected: 12/08/15 00:00 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/18/15 22:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/18/15 22:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/18/15 22:35	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:35	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/18/15 22:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/18/15 22:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/18/15 22:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:35	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/18/15 22:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/18/15 22:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/18/15 22:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/18/15 22:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/18/15 22:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/18/15 22:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/18/15 22:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/18/15 22:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/18/15 22:35	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/18/15 22:35	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 22:35	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/18/15 22:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/18/15 22:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		12/18/15 22:35	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/18/15 22:35	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		12/18/15 22:35	2037-26-5	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: AIR/24843 Analysis Method: RSK 175
QC Batch Method: RSK 175 Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007

METHOD BLANK: 2157713 Matrix: Water
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methane	ug/L	1.5J	10.0	0.63	12/14/15 08:57	

LABORATORY CONTROL SAMPLE & LCSD: 2157714 2157715

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	53.0	54.7	87	90	85-115	3	20	

SAMPLE DUPLICATE: 2157778

Parameter	Units	92278839002 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	252	310	21	20	D6

SAMPLE DUPLICATE: 2157779

Parameter	Units	92278873002 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	1.1J	1.1J		20	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: AIR/24844 | Analysis Method: RSK 175
QC Batch Method: RSK 175 | Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92278873008

METHOD BLANK: 2157716 | Matrix: Water
Associated Lab Samples: 92278873008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methane	ug/L	1.5J	10.0	0.63	12/14/15 13:33	

LABORATORY CONTROL SAMPLE & LCSD: 2157717 2157718

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	54.7	57.1	90	94	85-115	4	20	

SAMPLE DUPLICATE: 2157793

Parameter	Units	2029528001 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	ND	1.0J		20	

SAMPLE DUPLICATE: 2157795

Parameter	Units	10332669008 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	ND	1.6J		20	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: MPRP/20217 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 MET
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

METHOD BLANK: 1624361 Matrix: Water
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	25.0	12/11/15 23:00	

LABORATORY CONTROL SAMPLE: 1624362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	5000	4540	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624363 1624364

Parameter	Units	92278807004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	ND	5000	5000	5190	4410	104	88	70-130	16	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624365 1624366

Parameter	Units	92278873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	5060	5000	5000	10900	10300	117	104	70-130	6	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: MSV/34780 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873006, 92278873007, 92278873008, 92278873009

METHOD BLANK: 1633122 Matrix: Water
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873006, 92278873007, 92278873008, 92278873009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	1.7	12/18/15 12:25	
1,1,1-Trichloroethane	ug/L	ND	5.0	1.9	12/18/15 12:25	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	1.5	12/18/15 12:25	
1,1,2-Trichloroethane	ug/L	ND	5.0	1.7	12/18/15 12:25	
1,1-Dichloroethane	ug/L	ND	5.0	1.8	12/18/15 12:25	
1,1-Dichloroethene	ug/L	ND	5.0	1.9	12/18/15 12:25	
1,1-Dichloropropene	ug/L	ND	5.0	1.7	12/18/15 12:25	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	2.0	12/18/15 12:25	
1,2,3-Trichloropropane	ug/L	ND	5.0	1.5	12/18/15 12:25	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	1.7	12/18/15 12:25	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	1.5	12/18/15 12:25	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	1.7	12/18/15 12:25	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	1.7	12/18/15 12:25	
1,2-Dichlorobenzene	ug/L	ND	5.0	1.5	12/18/15 12:25	
1,2-Dichloroethane	ug/L	ND	5.0	1.8	12/18/15 12:25	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	4.4	12/18/15 12:25	
1,2-Dichloropropane	ug/L	ND	5.0	1.7	12/18/15 12:25	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	1.3	12/18/15 12:25	
1,3-Dichlorobenzene	ug/L	ND	5.0	1.5	12/18/15 12:25	
1,3-Dichloropropane	ug/L	ND	5.0	1.7	12/18/15 12:25	
1,4-Dichlorobenzene	ug/L	ND	5.0	1.5	12/18/15 12:25	
2,2-Dichloropropane	ug/L	ND	5.0	1.6	12/18/15 12:25	
2-Butanone (MEK)	ug/L	ND	10.0	4.9	12/18/15 12:25	
2-Chlorotoluene	ug/L	ND	5.0	1.5	12/18/15 12:25	
2-Hexanone	ug/L	ND	10.0	3.8	12/18/15 12:25	
4-Chlorotoluene	ug/L	ND	5.0	1.6	12/18/15 12:25	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	3.6	12/18/15 12:25	
Acetone	ug/L	ND	25.0	10.0	12/18/15 12:25	
Benzene	ug/L	ND	5.0	1.7	12/18/15 12:25	
Bromobenzene	ug/L	ND	5.0	1.5	12/18/15 12:25	
Bromochloromethane	ug/L	ND	5.0	2.2	12/18/15 12:25	
Bromodichloromethane	ug/L	ND	5.0	1.7	12/18/15 12:25	
Bromoform	ug/L	ND	5.0	1.5	12/18/15 12:25	
Bromomethane	ug/L	ND	10.0	2.5	12/18/15 12:25	
Carbon tetrachloride	ug/L	ND	5.0	1.9	12/18/15 12:25	
Chlorobenzene	ug/L	ND	5.0	1.7	12/18/15 12:25	
Chloroethane	ug/L	ND	10.0	1.6	12/18/15 12:25	
Chloroform	ug/L	ND	5.0	1.9	12/18/15 12:25	
Chloromethane	ug/L	ND	5.0	1.5	12/18/15 12:25	
cis-1,2-Dichloroethene	ug/L	ND	5.0	1.8	12/18/15 12:25	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

METHOD BLANK: 1633122 Matrix: Water

Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873006, 92278873007, 92278873008, 92278873009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	1.6	12/18/15 12:25	
Dibromochloromethane	ug/L	ND	5.0	1.8	12/18/15 12:25	
Dibromomethane	ug/L	ND	5.0	2.0	12/18/15 12:25	
Dichlorodifluoromethane	ug/L	ND	5.0	1.6	12/18/15 12:25	
Diisopropyl ether	ug/L	ND	5.0	1.7	12/18/15 12:25	
Ethylbenzene	ug/L	ND	5.0	1.6	12/18/15 12:25	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	1.8	12/18/15 12:25	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	1.6	12/18/15 12:25	
m&p-Xylene	ug/L	ND	10.0	3.1	12/18/15 12:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	12/18/15 12:25	
Methylene Chloride	ug/L	ND	5.0	1.9	12/18/15 12:25	
n-Butylbenzene	ug/L	ND	5.0	1.9	12/18/15 12:25	
n-Propylbenzene	ug/L	ND	5.0	1.5	12/18/15 12:25	
Naphthalene	ug/L	ND	5.0	2.0	12/18/15 12:25	
o-Xylene	ug/L	ND	5.0	1.6	12/18/15 12:25	
p-Isopropyltoluene	ug/L	ND	5.0	1.6	12/18/15 12:25	
sec-Butylbenzene	ug/L	ND	5.0	1.7	12/18/15 12:25	
Styrene	ug/L	ND	5.0	1.6	12/18/15 12:25	
tert-Butyl Alcohol	ug/L	ND	100	57.7	12/18/15 12:25	
tert-Butylbenzene	ug/L	ND	5.0	1.6	12/18/15 12:25	
Tetrachloroethene	ug/L	ND	5.0	1.8	12/18/15 12:25	
Toluene	ug/L	ND	5.0	1.6	12/18/15 12:25	
trans-1,2-Dichloroethene	ug/L	ND	5.0	1.8	12/18/15 12:25	
trans-1,3-Dichloropropene	ug/L	ND	5.0	1.6	12/18/15 12:25	
Trichloroethene	ug/L	ND	5.0	1.8	12/18/15 12:25	
Trichlorofluoromethane	ug/L	ND	10.0	1.7	12/18/15 12:25	
Vinyl acetate	ug/L	ND	10.0	2.3	12/18/15 12:25	
Vinyl chloride	ug/L	ND	5.0	1.5	12/18/15 12:25	
1,2-Dichloroethane-d4 (S)	%	96	70-130		12/18/15 12:25	
4-Bromofluorobenzene (S)	%	106	70-130		12/18/15 12:25	
Toluene-d8 (S)	%	107	70-130		12/18/15 12:25	

LABORATORY CONTROL SAMPLE: 1633123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.7	105	80-125	
1,1,1-Trichloroethane	ug/L	50	53.7	107	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	51.9	104	79-124	
1,1,2-Trichloroethane	ug/L	50	51.0	102	85-125	
1,1-Dichloroethane	ug/L	50	52.1	104	73-126	
1,1-Dichloroethene	ug/L	50	53.7	107	66-135	
1,1-Dichloropropene	ug/L	50	51.9	104	74-135	
1,2,3-Trichlorobenzene	ug/L	50	48.9	98	73-135	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

LABORATORY CONTROL SAMPLE: 1633123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	49.5	99	75-130	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	75-134	
1,2,4-Trimethylbenzene	ug/L	50	48.8	98	79-125	
1,2-Dibromo-3-chloropropane	ug/L	50	50.7	101	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	54.3	109	83-124	
1,2-Dichlorobenzene	ug/L	50	49.0	98	80-133	
1,2-Dichloroethane	ug/L	50	48.7	97	67-128	
1,2-Dichloroethene (Total)	ug/L	100	102	102	73-128	
1,2-Dichloropropane	ug/L	50	52.2	104	75-132	
1,3,5-Trimethylbenzene	ug/L	50	48.9	98	79-123	
1,3-Dichlorobenzene	ug/L	50	50.1	100	77-130	
1,3-Dichloropropane	ug/L	50	53.6	107	76-131	
1,4-Dichlorobenzene	ug/L	50	51.2	102	78-130	
2,2-Dichloropropane	ug/L	50	54.1	108	40-160	
2-Butanone (MEK)	ug/L	100	113	113	61-144	
2-Chlorotoluene	ug/L	50	48.3	97	74-132	
2-Hexanone	ug/L	100	101	101	68-143	
4-Chlorotoluene	ug/L	50	50.4	101	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	72-135	
Acetone	ug/L	100	108	108	48-146	
Benzene	ug/L	50	53.6	107	80-125	
Bromobenzene	ug/L	50	50.1	100	75-125	
Bromochloromethane	ug/L	50	57.4	115	71-125	
Bromodichloromethane	ug/L	50	51.9	104	78-124	
Bromoform	ug/L	50	41.7	83	71-128	
Bromomethane	ug/L	50	51.4	103	40-160	
Carbon tetrachloride	ug/L	50	52.4	105	69-131	
Chlorobenzene	ug/L	50	50.7	101	81-122	
Chloroethane	ug/L	50	51.1	102	39-148	
Chloroform	ug/L	50	52.6	105	73-127	
Chloromethane	ug/L	50	52.2	104	44-146	
cis-1,2-Dichloroethene	ug/L	50	50.9	102	74-124	
cis-1,3-Dichloropropene	ug/L	50	54.5	109	72-132	
Dibromochloromethane	ug/L	50	52.8	106	78-125	
Dibromomethane	ug/L	50	52.5	105	82-120	
Dichlorodifluoromethane	ug/L	50	49.2	98	34-157	
Diisopropyl ether	ug/L	50	55.2	110	69-135	
Ethylbenzene	ug/L	50	50.3	101	79-121	
Hexachloro-1,3-butadiene	ug/L	50	59.6	119	72-131	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	81-132	
m&p-Xylene	ug/L	100	98.1	98	81-124	
Methyl-tert-butyl ether	ug/L	50	57.6	115	74-131	
Methylene Chloride	ug/L	50	59.1	118	64-133	
n-Butylbenzene	ug/L	50	50.2	100	78-127	
n-Propylbenzene	ug/L	50	48.5	97	78-130	
Naphthalene	ug/L	50	48.1	96	73-133	
o-Xylene	ug/L	50	48.2	96	79-131	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

LABORATORY CONTROL SAMPLE: 1633123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	50	50.4	101	80-131	
sec-Butylbenzene	ug/L	50	53.6	107	80-133	
Styrene	ug/L	50	49.2	98	84-126	
tert-Butyl Alcohol	ug/L	500	517	103	36-136	
tert-Butylbenzene	ug/L	50	40.6	81	77-133	
Tetrachloroethene	ug/L	50	49.9	100	78-122	
Toluene	ug/L	50	49.8	100	80-121	
trans-1,2-Dichloroethene	ug/L	50	51.3	103	71-127	
trans-1,3-Dichloropropene	ug/L	50	52.2	104	69-141	
Trichloroethene	ug/L	50	56.5	113	78-122	
Trichlorofluoromethane	ug/L	50	48.7	97	53-137	
Vinyl acetate	ug/L	100	109	109	40-160	
Vinyl chloride	ug/L	50	55.2	110	58-137	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: MSV/34827 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 92278873005

METHOD BLANK: 1634053 Matrix: Water
Associated Lab Samples: 92278873005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,1,1-Trichloroethane	ug/L	ND	5.0	1.9	12/21/15 06:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,1,2-Trichloroethane	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,1-Dichloroethane	ug/L	ND	5.0	1.8	12/21/15 06:41	
1,1-Dichloroethene	ug/L	ND	5.0	1.9	12/21/15 06:41	
1,1-Dichloropropene	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	2.0	12/21/15 06:41	
1,2,3-Trichloropropane	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	1.7	12/21/15 06:41	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,2-Dichlorobenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,2-Dichloroethane	ug/L	ND	5.0	1.8	12/21/15 06:41	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	4.4	12/21/15 06:41	
1,2-Dichloropropane	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	1.3	12/21/15 06:41	
1,3-Dichlorobenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,3-Dichloropropane	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,4-Dichlorobenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
2,2-Dichloropropane	ug/L	ND	5.0	1.6	12/21/15 06:41	
2-Butanone (MEK)	ug/L	ND	10.0	4.9	12/21/15 06:41	
2-Chlorotoluene	ug/L	ND	5.0	1.5	12/21/15 06:41	
2-Hexanone	ug/L	ND	10.0	3.8	12/21/15 06:41	
4-Chlorotoluene	ug/L	ND	5.0	1.6	12/21/15 06:41	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	3.6	12/21/15 06:41	
Acetone	ug/L	ND	25.0	10.0	12/21/15 06:41	
Benzene	ug/L	ND	5.0	1.7	12/21/15 06:41	
Bromobenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
Bromochloromethane	ug/L	ND	5.0	2.2	12/21/15 06:41	
Bromodichloromethane	ug/L	ND	5.0	1.7	12/21/15 06:41	
Bromoform	ug/L	ND	5.0	1.5	12/21/15 06:41	
Bromomethane	ug/L	ND	10.0	2.5	12/21/15 06:41	
Carbon tetrachloride	ug/L	ND	5.0	1.9	12/21/15 06:41	
Chlorobenzene	ug/L	ND	5.0	1.7	12/21/15 06:41	
Chloroethane	ug/L	ND	10.0	1.6	12/21/15 06:41	
Chloroform	ug/L	ND	5.0	1.9	12/21/15 06:41	
Chloromethane	ug/L	ND	5.0	1.5	12/21/15 06:41	
cis-1,2-Dichloroethene	ug/L	ND	5.0	1.8	12/21/15 06:41	
cis-1,3-Dichloropropene	ug/L	ND	5.0	1.6	12/21/15 06:41	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

METHOD BLANK: 1634053 Matrix: Water
Associated Lab Samples: 92278873005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	5.0	1.8	12/21/15 06:41	
Dibromomethane	ug/L	ND	5.0	2.0	12/21/15 06:41	
Dichlorodifluoromethane	ug/L	ND	5.0	1.6	12/21/15 06:41	
Diisopropyl ether	ug/L	ND	5.0	1.7	12/21/15 06:41	
Ethylbenzene	ug/L	ND	5.0	1.6	12/21/15 06:41	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	1.8	12/21/15 06:41	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	1.6	12/21/15 06:41	
m&p-Xylene	ug/L	ND	10.0	3.1	12/21/15 06:41	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	12/21/15 06:41	
Methylene Chloride	ug/L	ND	5.0	1.9	12/21/15 06:41	
n-Butylbenzene	ug/L	ND	5.0	1.9	12/21/15 06:41	
n-Propylbenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
Naphthalene	ug/L	ND	5.0	2.0	12/21/15 06:41	
o-Xylene	ug/L	ND	5.0	1.6	12/21/15 06:41	
p-Isopropyltoluene	ug/L	ND	5.0	1.6	12/21/15 06:41	
sec-Butylbenzene	ug/L	ND	5.0	1.7	12/21/15 06:41	
Styrene	ug/L	ND	5.0	1.6	12/21/15 06:41	
tert-Butyl Alcohol	ug/L	ND	100	57.7	12/21/15 06:41	
tert-Butylbenzene	ug/L	ND	5.0	1.6	12/21/15 06:41	
Tetrachloroethene	ug/L	ND	5.0	1.8	12/21/15 06:41	
Toluene	ug/L	ND	5.0	1.6	12/21/15 06:41	
trans-1,2-Dichloroethene	ug/L	ND	5.0	1.8	12/21/15 06:41	
trans-1,3-Dichloropropene	ug/L	ND	5.0	1.6	12/21/15 06:41	
Trichloroethene	ug/L	ND	5.0	1.8	12/21/15 06:41	
Trichlorofluoromethane	ug/L	ND	10.0	1.7	12/21/15 06:41	
Vinyl acetate	ug/L	ND	10.0	2.3	12/21/15 06:41	
Vinyl chloride	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,2-Dichloroethane-d4 (S)	%	94	70-130		12/21/15 06:41	
4-Bromofluorobenzene (S)	%	100	70-130		12/21/15 06:41	
Toluene-d8 (S)	%	101	70-130		12/21/15 06:41	

LABORATORY CONTROL SAMPLE: 1634054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.8	104	80-125	
1,1,1-Trichloroethane	ug/L	50	47.6	95	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	79-124	
1,1,2-Trichloroethane	ug/L	50	52.7	105	85-125	
1,1-Dichloroethane	ug/L	50	45.8	92	73-126	
1,1-Dichloroethene	ug/L	50	45.5	91	66-135	
1,1-Dichloropropene	ug/L	50	48.0	96	74-135	
1,2,3-Trichlorobenzene	ug/L	50	46.4	93	73-135	
1,2,3-Trichloropropane	ug/L	50	49.9	100	75-130	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	75-134	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

LABORATORY CONTROL SAMPLE: 1634054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	79-125	
1,2-Dibromo-3-chloropropane	ug/L	50	48.5	97	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	54.5	109	83-124	
1,2-Dichlorobenzene	ug/L	50	50.1	100	80-133	
1,2-Dichloroethane	ug/L	50	45.7	91	67-128	
1,2-Dichloroethene (Total)	ug/L	100	93.9	94	73-128	
1,2-Dichloropropane	ug/L	50	48.3	97	75-132	
1,3,5-Trimethylbenzene	ug/L	50	48.7	97	79-123	
1,3-Dichlorobenzene	ug/L	50	50.3	101	77-130	
1,3-Dichloropropane	ug/L	50	53.2	106	76-131	
1,4-Dichlorobenzene	ug/L	50	51.3	103	78-130	
2,2-Dichloropropane	ug/L	50	42.0	84	40-160	
2-Butanone (MEK)	ug/L	100	107	107	61-144	
2-Chlorotoluene	ug/L	50	45.7	91	74-132	
2-Hexanone	ug/L	100	103	103	68-143	
4-Chlorotoluene	ug/L	50	49.6	99	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	72-135	
Acetone	ug/L	100	106	106	48-146	
Benzene	ug/L	50	50.7	101	80-125	
Bromobenzene	ug/L	50	49.9	100	75-125	
Bromochloromethane	ug/L	50	51.8	104	71-125	
Bromodichloromethane	ug/L	50	50.4	101	78-124	
Bromoform	ug/L	50	42.9	86	71-128	
Bromomethane	ug/L	50	36.1	72	40-160	
Carbon tetrachloride	ug/L	50	47.8	96	69-131	
Chlorobenzene	ug/L	50	51.0	102	81-122	
Chloroethane	ug/L	50	37.6	75	39-148	
Chloroform	ug/L	50	46.6	93	73-127	
Chloromethane	ug/L	50	49.0	98	44-146	
cis-1,2-Dichloroethene	ug/L	50	45.9	92	74-124	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	72-132	
Dibromochloromethane	ug/L	50	54.8	110	78-125	
Dibromomethane	ug/L	50	50.3	101	82-120	
Dichlorodifluoromethane	ug/L	50	38.9	78	34-157	
Diisopropyl ether	ug/L	50	54.8	110	69-135	
Ethylbenzene	ug/L	50	49.1	98	79-121	
Hexachloro-1,3-butadiene	ug/L	50	45.2	90	72-131	
Isopropylbenzene (Cumene)	ug/L	50	51.1	102	81-132	
m&p-Xylene	ug/L	100	96.4	96	81-124	
Methyl-tert-butyl ether	ug/L	50	54.3	109	74-131	
Methylene Chloride	ug/L	50	52.9	106	64-133	
n-Butylbenzene	ug/L	50	46.0	92	78-127	
n-Propylbenzene	ug/L	50	47.7	95	78-130	
Naphthalene	ug/L	50	47.1	94	73-133	
o-Xylene	ug/L	50	47.4	95	79-131	
p-Isopropyltoluene	ug/L	50	48.3	97	80-131	
sec-Butylbenzene	ug/L	50	52.0	104	80-133	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

LABORATORY CONTROL SAMPLE: 1634054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/L	50	48.5	97	84-126	
tert-Butyl Alcohol	ug/L	500	519	104	36-136	
tert-Butylbenzene	ug/L	50	41.1	82	77-133	
Tetrachloroethene	ug/L	50	50.5	101	78-122	
Toluene	ug/L	50	47.6	95	80-121	
trans-1,2-Dichloroethene	ug/L	50	48.0	96	71-127	
trans-1,3-Dichloropropene	ug/L	50	48.4	97	69-141	
Trichloroethene	ug/L	50	52.7	105	78-122	
Trichlorofluoromethane	ug/L	50	41.1	82	53-137	
Vinyl acetate	ug/L	100	101	101	40-160	
Vinyl chloride	ug/L	50	46.5	93	58-137	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: MSV/34722 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92278873001, 92278873002, 92278873003

METHOD BLANK: 1629598 Matrix: Water
Associated Lab Samples: 92278873001, 92278873002, 92278873003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	1.9	12/15/15 20:13	
1,2-Dichloroethane-d4 (S)	%	107	50-150		12/15/15 20:13	
Toluene-d8 (S)	%	91	50-150		12/15/15 20:13	

LABORATORY CONTROL SAMPLE: 1629599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.7	94	71-125	
1,2-Dichloroethane-d4 (S)	%			103	50-150	
Toluene-d8 (S)	%			95	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629600 1629601

Parameter	Units	92279363014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	3.8	20	20	21.6	21.7	89	90	50-150	0	30	
1,2-Dichloroethane-d4 (S)	%						97	96	50-150		150	
Toluene-d8 (S)	%						92	93	50-150		150	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: MSV/34723 Analysis Method: EPA 8260B Mod.
QC Batch Method: EPA 8260B Mod. Analysis Description: 8260 MSV SIM
Associated Lab Samples: 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

METHOD BLANK: 1629602 Matrix: Water
Associated Lab Samples: 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	2.0	1.9	12/15/15 19:53	
1,2-Dichloroethane-d4 (S)	%	107	50-150		12/15/15 19:53	
Toluene-d8 (S)	%	91	50-150		12/15/15 19:53	

LABORATORY CONTROL SAMPLE: 1629603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	20	18.2	91	71-125	
1,2-Dichloroethane-d4 (S)	%			106	50-150	
Toluene-d8 (S)	%			93	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629604 1629605

Parameter	Units	92279472004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	2.7	20	20	20.4	20.1	89	87	50-150	1	30	
1,2-Dichloroethane-d4 (S)	%						100	96	50-150		150	
Toluene-d8 (S)	%						93	93	50-150		150	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: OEXT/39679 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV HVI
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

METHOD BLANK: 1627961 Matrix: Water
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	1.9	12/15/15 14:59	
1,2-Dichlorobenzene	ug/L	ND	10.0	1.2	12/15/15 14:59	
1,3-Dichlorobenzene	ug/L	ND	10.0	1.1	12/15/15 14:59	
1,4-Dichlorobenzene	ug/L	ND	10.0	1.2	12/15/15 14:59	
1-Methylnaphthalene	ug/L	ND	10.0	1.8	12/15/15 14:59	
2,4,5-Trichlorophenol	ug/L	ND	10.0	2.2	12/15/15 14:59	
2,4,6-Trichlorophenol	ug/L	ND	10.0	1.9	12/15/15 14:59	
2,4-Dichlorophenol	ug/L	ND	10.0	1.7	12/15/15 14:59	
2,4-Dimethylphenol	ug/L	ND	10.0	2.2	12/15/15 14:59	
2,4-Dinitrophenol	ug/L	ND	50.0	6.5	12/15/15 14:59	
2,4-Dinitrotoluene	ug/L	ND	10.0	1.2	12/15/15 14:59	
2,6-Dinitrotoluene	ug/L	ND	10.0	1.7	12/15/15 14:59	
2-Chloronaphthalene	ug/L	ND	10.0	2.2	12/15/15 14:59	
2-Chlorophenol	ug/L	ND	10.0	1.5	12/15/15 14:59	
2-Methylnaphthalene	ug/L	ND	10.0	1.7	12/15/15 14:59	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	1.7	12/15/15 14:59	
2-Nitroaniline	ug/L	ND	50.0	2.8	12/15/15 14:59	
2-Nitrophenol	ug/L	ND	10.0	1.7	12/15/15 14:59	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	1.7	12/15/15 14:59	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	1.4	12/15/15 14:59	
3-Nitroaniline	ug/L	ND	50.0	2.4	12/15/15 14:59	
4,6-Dinitro-2-methylphenol	ug/L	ND	20.0	1.7	12/15/15 14:59	
4-Bromophenylphenyl ether	ug/L	ND	10.0	1.3	12/15/15 14:59	
4-Chloro-3-methylphenol	ug/L	ND	20.0	4.2	12/15/15 14:59	
4-Chloroaniline	ug/L	ND	20.0	3.4	12/15/15 14:59	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	2.1	12/15/15 14:59	
4-Nitroaniline	ug/L	ND	20.0	2.5	12/15/15 14:59	
4-Nitrophenol	ug/L	ND	50.0	5.8	12/15/15 14:59	
Acenaphthene	ug/L	ND	10.0	1.7	12/15/15 14:59	
Acenaphthylene	ug/L	ND	10.0	1.8	12/15/15 14:59	
Aniline	ug/L	ND	10.0	1.3	12/15/15 14:59	
Anthracene	ug/L	ND	10.0	1.1	12/15/15 14:59	
Benzo(a)anthracene	ug/L	ND	10.0	0.72	12/15/15 14:59	
Benzo(a)pyrene	ug/L	ND	10.0	0.71	12/15/15 14:59	
Benzo(b)fluoranthene	ug/L	ND	10.0	0.81	12/15/15 14:59	
Benzo(g,h,i)perylene	ug/L	ND	10.0	0.97	12/15/15 14:59	
Benzo(k)fluoranthene	ug/L	ND	10.0	0.87	12/15/15 14:59	
Benzoic Acid	ug/L	34.3J	50.0	11.1	12/15/15 14:59	
Benzyl alcohol	ug/L	ND	20.0	3.4	12/15/15 14:59	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	1.7	12/15/15 14:59	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

METHOD BLANK: 1627961 Matrix: Water

Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Chloroethyl) ether	ug/L	ND	10.0	1.5	12/15/15 14:59	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	1.6	12/15/15 14:59	
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	0.85	12/15/15 14:59	
Butylbenzylphthalate	ug/L	ND	10.0	0.75	12/15/15 14:59	
Chrysene	ug/L	ND	10.0	0.65	12/15/15 14:59	
Di-n-butylphthalate	ug/L	ND	10.0	1.1	12/15/15 14:59	
Di-n-octylphthalate	ug/L	ND	10.0	0.86	12/15/15 14:59	
Dibenz(a,h)anthracene	ug/L	ND	10.0	0.70	12/15/15 14:59	
Dibenzofuran	ug/L	ND	10.0	1.8	12/15/15 14:59	
Diethylphthalate	ug/L	ND	10.0	1.3	12/15/15 14:59	
Dimethylphthalate	ug/L	ND	10.0	1.5	12/15/15 14:59	
Fluoranthene	ug/L	ND	10.0	0.87	12/15/15 14:59	
Fluorene	ug/L	ND	10.0	1.6	12/15/15 14:59	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	1.8	12/15/15 14:59	
Hexachlorobenzene	ug/L	ND	10.0	1.1	12/15/15 14:59	
Hexachlorocyclopentadiene	ug/L	ND	10.0	1.8	12/15/15 14:59	
Hexachloroethane	ug/L	ND	10.0	1.5	12/15/15 14:59	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	1.8	12/15/15 14:59	
Isophorone	ug/L	ND	10.0	1.8	12/15/15 14:59	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	2.1	12/15/15 14:59	
N-Nitrosodimethylamine	ug/L	ND	10.0	1.3	12/15/15 14:59	
N-Nitrosodiphenylamine	ug/L	ND	10.0	1.3	12/15/15 14:59	
Naphthalene	ug/L	ND	10.0	1.5	12/15/15 14:59	
Nitrobenzene	ug/L	ND	10.0	1.7	12/15/15 14:59	
Pentachlorophenol	ug/L	ND	25.0	2.3	12/15/15 14:59	
Phenanthrene	ug/L	ND	10.0	1.0	12/15/15 14:59	
Phenol	ug/L	ND	10.0	1.7	12/15/15 14:59	
Pyrene	ug/L	ND	10.0	0.53	12/15/15 14:59	
2,4,6-Tribromophenol (S)	%	51	27-110		12/15/15 14:59	
2-Fluorobiphenyl (S)	%	70	27-110		12/15/15 14:59	
2-Fluorophenol (S)	%	20	12-110		12/15/15 14:59	
Nitrobenzene-d5 (S)	%	76	21-110		12/15/15 14:59	
Phenol-d6 (S)	%	25	10-110		12/15/15 14:59	
Terphenyl-d14 (S)	%	84	31-107		12/15/15 14:59	

LABORATORY CONTROL SAMPLE & LCSD: 1627962 1627963

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	48.7	44.6	97	89	31-120	9	30	
1,2-Dichlorobenzene	ug/L	50	38.5	36.1	77	72	38-120	7	30	
1,3-Dichlorobenzene	ug/L	50	36.4	39.2	73	78	30-122	7	30	
1,4-Dichlorobenzene	ug/L	50	37.5	36.0	75	72	37-120	4	30	
1-Methylnaphthalene	ug/L	50	50.7	50.8	101	102	34-113	0	30	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

LABORATORY CONTROL SAMPLE & LCSD: 1627962 1627963

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4,5-Trichlorophenol	ug/L	50	43.5	41.6	87	83	43-113	5	30	
2,4,6-Trichlorophenol	ug/L	50	49.3	46.9	99	94	42-120	5	30	
2,4-Dichlorophenol	ug/L	50	38.6	39.2	77	78	30-120	2	30	
2,4-Dimethylphenol	ug/L	50	48.1	45.6	96	91	29-111	5	30	
2,4-Dinitrophenol	ug/L	250	170	159	68	64	19-132	7	30	
2,4-Dinitrotoluene	ug/L	50	47.3	46.4	95	93	58-128	2	30	
2,6-Dinitrotoluene	ug/L	50	45.1	44.4	90	89	54-129	2	30	
2-Chloronaphthalene	ug/L	50	38.8	36.5	78	73	43-117	6	30	
2-Chlorophenol	ug/L	50	31.9	24.5	64	49	37-120	26	30	
2-Methylnaphthalene	ug/L	50	49.7	50.0	99	100	33-120	1	30	
2-Methylphenol(o-Cresol)	ug/L	50	29.3	27.5	59	55	31-120	7	30	
2-Nitroaniline	ug/L	100	77.0	74.4	77	74	48-121	3	30	
2-Nitrophenol	ug/L	50	39.2	38.6	78	77	25-116	2	30	
3&4-Methylphenol(m&p Cresol)	ug/L	50	26.6	23.8	53	48	23-120	11	30	
3,3'-Dichlorobenzidine	ug/L	100	83.5	85.2	83	85	10-154	2	30	
3-Nitroaniline	ug/L	100	78.2	78.0	78	78	43-115	0	30	
4,6-Dinitro-2-methylphenol	ug/L	100	83.1	85.1	83	85	44-124	2	30	
4-Bromophenylphenyl ether	ug/L	50	46.5	42.5	93	85	34-113	9	30	
4-Chloro-3-methylphenol	ug/L	100	111	112	111	112	31-110	1	30	L0
4-Chloroaniline	ug/L	100	86.3	70.5	86	71	20-120	20	30	
4-Chlorophenylphenyl ether	ug/L	50	44.4	42.7	89	85	34-116	4	30	
4-Nitroaniline	ug/L	100	80.0	80.5	80	80	46-128	1	30	
4-Nitrophenol	ug/L	250	114	96.5	45	39	11-120	16	30	
Acenaphthene	ug/L	50	42.2	41.2	84	82	48-114	2	30	
Acenaphthylene	ug/L	50	43.9	41.8	88	84	48-112	5	30	
Aniline	ug/L	50	14.5	5.8J	29	12	26-120		30	L0
Anthracene	ug/L	50	41.5	42.9	83	86	57-118	3	30	
Benzo(a)anthracene	ug/L	50	47.1	50.5	94	101	56-121	7	30	
Benzo(a)pyrene	ug/L	50	54.4	54.3	109	109	55-127	0	30	
Benzo(b)fluoranthene	ug/L	50	53.2	55.2	106	110	53-128	4	30	
Benzo(g,h,i)perylene	ug/L	50	50.7	53.5	101	107	54-125	5	30	
Benzo(k)fluoranthene	ug/L	50	62.3	64.3	125	129	51-123	3	30	L0
Benzoic Acid	ug/L	250	112	106	45	43	10-120	5	30	
Benzyl alcohol	ug/L	100	67.5	65.9	67	66	27-120	2	30	
bis(2-Chloroethoxy)methane	ug/L	50	45.2	42.4	90	85	32-120	6	30	
bis(2-Chloroethyl) ether	ug/L	50	33.0	29.9	66	60	33-111	10	30	
bis(2-Chloroisopropyl) ether	ug/L	50	20.3	19.7	41	39	15-120	3	30	
bis(2-Ethylhexyl)phthalate	ug/L	50	45.6	49.3	91	99	50-145	8	30	
Butylbenzylphthalate	ug/L	50	52.6	55.0	105	110	54-138	4	30	
Chrysene	ug/L	50	44.9	49.0	90	98	58-127	9	30	
Di-n-butylphthalate	ug/L	50	44.6	47.2	89	94	56-125	6	30	
Di-n-octylphthalate	ug/L	50	45.4	48.7	91	97	50-134	7	30	
Dibenz(a,h)anthracene	ug/L	50	50.4	51.0	101	102	53-129	1	30	
Dibenzofuran	ug/L	50	44.1	42.5	88	85	45-120	4	30	
Diethylphthalate	ug/L	50	46.3	45.1	93	90	53-120	3	30	
Dimethylphthalate	ug/L	50	48.5	44.6	97	89	55-116	8	30	
Fluoranthene	ug/L	50	43.0	45.6	86	91	57-125	6	30	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

LABORATORY CONTROL SAMPLE & LCSD: 1627962 1627963

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Fluorene	ug/L	50	45.6	44.3	91	89	53-118	3	30	
Hexachloro-1,3-butadiene	ug/L	50	44.3	42.5	89	85	23-120	4	30	
Hexachlorobenzene	ug/L	50	50.7	51.3	101	103	49-116	1	30	
Hexachlorocyclopentadiene	ug/L	50	29.9	27.0	60	54	26-158	10	30	
Hexachloroethane	ug/L	50	38.4	35.5	77	71	30-114	8	30	
Indeno(1,2,3-cd)pyrene	ug/L	50	51.3	54.6	103	109	55-128	6	30	
Isophorone	ug/L	50	53.5	53.6	107	107	31-118	0	30	
N-Nitroso-di-n-propylamine	ug/L	50	39.5	40.5	79	81	32-119	3	30	
N-Nitrosodimethylamine	ug/L	50	29.8	27.6	60	55	13-120	8	30	
N-Nitrosodiphenylamine	ug/L	50	43.4	42.9	87	86	43-120	1	30	
Naphthalene	ug/L	50	42.8	39.0	86	78	32-120	9	30	
Nitrobenzene	ug/L	50	44.7	40.5	89	81	33-110	10	30	
Pentachlorophenol	ug/L	100	84.0	84.9	84	85	10-137	1	30	
Phenanthrene	ug/L	50	41.5	41.6	83	83	57-117	0	30	
Phenol	ug/L	50	19.1	15.0	38	30	10-120	24	30	
Pyrene	ug/L	50	52.8	56.9	106	114	55-122	7	30	
2,4,6-Tribromophenol (S)	%				112	86	27-110			S0
2-Fluorobiphenyl (S)	%				88	70	27-110			
2-Fluorophenol (S)	%				49	27	12-110			
Nitrobenzene-d5 (S)	%				105	79	21-110			
Phenol-d6 (S)	%				41	26	10-110			
Terphenyl-d14 (S)	%				108	91	31-107			S0

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: WET/41854 Analysis Method: SM 3500-Fe B
QC Batch Method: SM 3500-Fe B Analysis Description: Iron, Ferrous
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

METHOD BLANK: 1624032 Matrix: Water
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	0.50	12/09/15 13:45	N2

LABORATORY CONTROL SAMPLE: 1624033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.5	103	90-110	N2

SAMPLE DUPLICATE: 1624034

Parameter	Units	92278566013 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		10	H3,N2

SAMPLE DUPLICATE: 1624035

Parameter	Units	92278566005 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		10	H3,N2

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: WETA/25692 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

METHOD BLANK: 1623914 Matrix: Water
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.0	1.0	12/09/15 14:52	

LABORATORY CONTROL SAMPLE: 1623915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.8	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623916 1623917

Parameter	Units	92278873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	ND	20	20	21.7	21.6	105	105	90-110	0	10	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

QC Batch: WETA/25684 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

METHOD BLANK: 1623297 Matrix: Water
Associated Lab Samples: 92278873001, 92278873002, 92278873003, 92278873004, 92278873005, 92278873006, 92278873007, 92278873008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	0.010	12/08/15 23:07	

LABORATORY CONTROL SAMPLE: 1623298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623299 1623300

Parameter	Units	92278937002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	2.6	2.5	2.5	4.9	4.9	91	91	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623301 1623302

Parameter	Units	92278937003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.062	2.5	2.5	2.6	2.6	101	100	90-110	0	10	

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QUALIFIERS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
N2	The lab does not hold TNI accreditation for this parameter.
P2	Re-extraction or re-analysis could not be performed due to insufficient sample amount.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92278873001	**MW-2**	RSK 175	AIR/24843		
92278873002	**MW-3**	RSK 175	AIR/24843		
92278873003	**MW-5**	RSK 175	AIR/24843		
92278873004	**MW-6**	RSK 175	AIR/24843		
92278873005	**MW-7**	RSK 175	AIR/24843		
92278873006	**MW-8**	RSK 175	AIR/24843		
92278873007	**DUP-1**	RSK 175	AIR/24843		
92278873008	**EQUIP BLANK**	RSK 175	AIR/24844		
92278873001	**MW-2**	EPA 200.7	MPRP/20217	EPA 200.7	ICP/18245
92278873002	**MW-3**	EPA 200.7	MPRP/20217	EPA 200.7	ICP/18245
92278873003	**MW-5**	EPA 200.7	MPRP/20217	EPA 200.7	ICP/18245
92278873004	**MW-6**	EPA 200.7	MPRP/20217	EPA 200.7	ICP/18245
92278873005	**MW-7**	EPA 200.7	MPRP/20217	EPA 200.7	ICP/18245
92278873006	**MW-8**	EPA 200.7	MPRP/20217	EPA 200.7	ICP/18245
92278873007	**DUP-1**	EPA 200.7	MPRP/20217	EPA 200.7	ICP/18245
92278873008	**EQUIP BLANK**	EPA 200.7	MPRP/20217	EPA 200.7	ICP/18245
92278873001	**MW-2**	EPA 3510	OEXT/39679	EPA 8270	MSSV/11649
92278873002	**MW-3**	EPA 3510	OEXT/39679	EPA 8270	MSSV/11649
92278873003	**MW-5**	EPA 3510	OEXT/39679	EPA 8270	MSSV/11649
92278873004	**MW-6**	EPA 3510	OEXT/39679	EPA 8270	MSSV/11649
92278873005	**MW-7**	EPA 3510	OEXT/39679	EPA 8270	MSSV/11649
92278873006	**MW-8**	EPA 3510	OEXT/39679	EPA 8270	MSSV/11649
92278873007	**DUP-1**	EPA 3510	OEXT/39679	EPA 8270	MSSV/11649
92278873008	**EQUIP BLANK**	EPA 3510	OEXT/39679	EPA 8270	MSSV/11649
92278873001	**MW-2**	EPA 8260	MSV/34780		
92278873002	**MW-3**	EPA 8260	MSV/34780		
92278873003	**MW-5**	EPA 8260	MSV/34780		
92278873004	**MW-6**	EPA 8260	MSV/34780		
92278873005	**MW-7**	EPA 8260	MSV/34827		
92278873006	**MW-8**	EPA 8260	MSV/34780		
92278873007	**DUP-1**	EPA 8260	MSV/34780		
92278873008	**EQUIP BLANK**	EPA 8260	MSV/34780		
92278873009	**TRIP BLANK**	EPA 8260	MSV/34780		
92278873001	**MW-2**	EPA 8260B Mod.	MSV/34722		
92278873002	**MW-3**	EPA 8260B Mod.	MSV/34722		
92278873003	**MW-5**	EPA 8260B Mod.	MSV/34722		
92278873004	**MW-6**	EPA 8260B Mod.	MSV/34723		
92278873005	**MW-7**	EPA 8260B Mod.	MSV/34723		
92278873006	**MW-8**	EPA 8260B Mod.	MSV/34723		
92278873007	**DUP-1**	EPA 8260B Mod.	MSV/34723		
92278873008	**EQUIP BLANK**	EPA 8260B Mod.	MSV/34723		
92278873001	**MW-2**	SM 3500-Fe D#4	WET/41996		
92278873002	**MW-3**	SM 3500-Fe D#4	WET/41996		
92278873003	**MW-5**	SM 3500-Fe D#4	WET/41996		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278873

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92278873004	**MW-6**	SM 3500-Fe D#4	WET/41996		
92278873005	**MW-7**	SM 3500-Fe D#4	WET/41996		
92278873006	**MW-8**	SM 3500-Fe D#4	WET/41996		
92278873007	**DUP-1**	SM 3500-Fe D#4	WET/41996		
92278873008	**EQUIP BLANK**	SM 3500-Fe D#4	WET/41996		
92278873001	**MW-2**	SM 3500-Fe B	WET/41854		
92278873002	**MW-3**	SM 3500-Fe B	WET/41854		
92278873003	**MW-5**	SM 3500-Fe B	WET/41854		
92278873004	**MW-6**	SM 3500-Fe B	WET/41854		
92278873005	**MW-7**	SM 3500-Fe B	WET/41854		
92278873006	**MW-8**	SM 3500-Fe B	WET/41854		
92278873007	**DUP-1**	SM 3500-Fe B	WET/41854		
92278873008	**EQUIP BLANK**	SM 3500-Fe B	WET/41854		
92278873001	**MW-2**	EPA 300.0	WETA/25692		
92278873002	**MW-3**	EPA 300.0	WETA/25692		
92278873003	**MW-5**	EPA 300.0	WETA/25692		
92278873004	**MW-6**	EPA 300.0	WETA/25692		
92278873005	**MW-7**	EPA 300.0	WETA/25692		
92278873006	**MW-8**	EPA 300.0	WETA/25692		
92278873007	**DUP-1**	EPA 300.0	WETA/25692		
92278873008	**EQUIP BLANK**	EPA 300.0	WETA/25692		
92278873001	**MW-2**	EPA 353.2	WETA/25684		
92278873002	**MW-3**	EPA 353.2	WETA/25684		
92278873003	**MW-5**	EPA 353.2	WETA/25684		
92278873004	**MW-6**	EPA 353.2	WETA/25684		
92278873005	**MW-7**	EPA 353.2	WETA/25684		
92278873006	**MW-8**	EPA 353.2	WETA/25684		
92278873007	**DUP-1**	EPA 353.2	WETA/25684		
92278873008	**EQUIP BLANK**	EPA 353.2	WETA/25684		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: November 17, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16.1**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Andea

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USP ☐ Client ☑ Commercial ☐ Pace Other_____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1505 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor No Correction

Corrected Cooler Temp.: 3.8 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AP 12-8-15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WK		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	TC	Date:	12/8/15
SRF Review:	TC	Date:	12/8/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92278873

92278873

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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.

Page: 1 of 1

1995965

Section A Required Client Information:

Company: ANTEA GROUP
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: matthew.eckmair@anteagroup.com
Copy To: rob.thompson@anteagroup.com
Purchase Order No.:
Project Name: VARCO PRUDEN
Project Number: E040957841

Section C Invoice Information:

Attention: MATTHEW ECKMAIR
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: TREY CARTER
Pace Profile #: 3225-15

REGULATORY AGENCY

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

Site Location STATE: NC

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	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs by 8260	1,4-DIOXANE BY 8260SIM	SVOCs by 8270	NITRATE	SULFATE	METHANE	FERROUS IRON	FERRIC IRON					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92278873
1	MW-2	WT	G			12/7/15	1420		14	X		X	X						X	X	X	X	X	X	X	X						001
2	MW-3						1330																									002
3	MW-5						1630																									003
4	MW-6						1035																									004
5	MW-7						1715																									005
6	MW-8						1520																									006
7	DUP-1						—																									007
8	EQUIP BLANK					12/8/15	1048																									008
9	TRIP BLANK						—		2																							009
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	M.ECKMAIR / ANTEA GROUP	12/8/15	1403	[signature]	12-8-15	14:05	3.8	✓	✓	✓

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MATTHEW ECKMAIR

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/08/15

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.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 21, 2015

Mr. Rob Thompson
Antea Group
8008 Corporate Center Drive
Suite 100
Charlotte, NC 28226

RE: Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Dear Mr. Thompson:
Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Trey Carter
trey.carter@pacelabs.com
Project Manager

Enclosures

cc: Matthew Eckmair, Antea Group
AG Data View

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CERTIFICATIONS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92278876001	**MW-10**	Water	12/07/15 12:28	12/08/15 14:03
92278876002	**SW00100**	Water	12/07/15 11:25	12/08/15 14:03
92278876003	**SW00200**	Water	12/07/15 11:50	12/08/15 14:03
92278876004	**SW00300**	Water	12/07/15 11:35	12/08/15 14:03
92278876005	**SW00400**	Water	12/08/15 11:45	12/08/15 14:03
92278876006	**DUP-SW**	Water	12/07/15 00:00	12/08/15 14:03

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SAMPLE ANALYTE COUNT

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92278876001	**MW-10**	RSK 175	DR1	1	PASI-M
		EPA 200.7	CDF	1	PASI-A
		EPA 8260	GAW	9	PASI-C
		SM 3500-Fe D#4	EWS	1	PASI-A
		SM 3500-Fe B	WRC	1	PASI-A
		EPA 300.0	MDW	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
92278876002	**SW00100**	EPA 8260	GAW	9	PASI-C
92278876003	**SW00200**	EPA 8260	GAW	9	PASI-C
92278876004	**SW00300**	EPA 8260	GAW	9	PASI-C
92278876005	**SW00400**	EPA 8260	GAW	9	PASI-C
92278876006	**DUP-SW**	EPA 8260	GAW	9	PASI-C

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SUMMARY OF DETECTION

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92278876001	**MW-10**					
RSK 175	Methane	2.0J	ug/L	10.0	12/14/15 17:34	
EPA 200.7	Iron	3370	ug/L	50.0	12/12/15 00:32	
EPA 8260	cis-1,2-Dichloroethene	9.0	ug/L	5.0	12/18/15 20:20	
EPA 8260	Tetrachloroethene	45.5	ug/L	5.0	12/18/15 20:20	
EPA 8260	Trichloroethene	2.2J	ug/L	5.0	12/18/15 20:20	
SM 3500-Fe D#4	Iron, Ferric	3.4	mg/L	0.50	12/15/15 17:09	
EPA 353.2	Nitrogen, Nitrate	0.72	mg/L	0.020	12/08/15 23:30	
92278876002	**SW00100**					
EPA 8260	Tetrachloroethene	4.3J	ug/L	5.0	12/18/15 20:03	
92278876003	**SW00200**					
EPA 8260	Tetrachloroethene	3.1J	ug/L	5.0	12/18/15 19:46	
92278876006	**DUP-SW**					
EPA 8260	Tetrachloroethene	4.1J	ug/L	5.0	12/18/15 20:37	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Sample: MW-10 **Lab ID: 92278876001** Collected: 12/07/15 12:28 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
RSK 175 AIR Headspace	Analytical Method: RSK 175								
Methane	**2.0J**	ug/L	10.0	0.63	1		12/14/15 17:34	74-82-8	
200.7 MET ICP	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Iron	**3370**	ug/L	50.0	25.0	1	12/09/15 19:00	12/12/15 00:32	7439-89-6	
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 20:20	75-35-4	
cis-1,2-Dichloroethene	**9.0**	ug/L	5.0	1.8	1		12/18/15 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:20	156-60-5	
Tetrachloroethene	**45.5**	ug/L	5.0	1.8	1		12/18/15 20:20	127-18-4	
Trichloroethene	**2.2J**	ug/L	5.0	1.8	1		12/18/15 20:20	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 20:20	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/18/15 20:20	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/18/15 20:20	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		12/18/15 20:20	2037-26-5	
Iron, Ferric (Calculation)	Analytical Method: SM 3500-Fe D#4								
Iron, Ferric	**3.4**	mg/L	0.50	0.25	1		12/15/15 17:09	7439-89-6	
Iron, Ferrous	Analytical Method: SM 3500-Fe B								
Iron, Ferrous	ND	mg/L	0.50	0.50	1		12/09/15 13:45		H3,N2
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	ND	mg/L	2.0	1.0	1		12/09/15 14:52	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.72**	mg/L	0.020	0.010	1		12/08/15 23:30		

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Sample: SW00100 **Lab ID: 92278876002** Collected: 12/07/15 11:25 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 20:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:03	156-60-5	
Tetrachloroethene	**4.3J**	ug/L	5.0	1.8	1		12/18/15 20:03	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:03	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 20:03	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		12/18/15 20:03	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/18/15 20:03	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		12/18/15 20:03	2037-26-5	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Sample: SW00200 **Lab ID: 92278876003** Collected: 12/07/15 11:50 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 19:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 19:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 19:46	156-60-5	
Tetrachloroethene	**3.1J**	ug/L	5.0	1.8	1		12/18/15 19:46	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 19:46	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 19:46	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		12/18/15 19:46	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		12/18/15 19:46	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		12/18/15 19:46	2037-26-5	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Sample: SW00300 **Lab ID: 92278876004** Collected: 12/07/15 11:35 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 19:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 19:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 19:29	156-60-5	
Tetrachloroethene	ND	ug/L	5.0	1.8	1		12/18/15 19:29	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 19:29	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 19:29	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		12/18/15 19:29	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		12/18/15 19:29	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		12/18/15 19:29	2037-26-5	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Sample: SW00400 **Lab ID: 92278876005** Collected: 12/08/15 11:45 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 22:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:19	156-60-5	
Tetrachloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:19	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 22:19	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 22:19	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		12/18/15 22:19	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		12/18/15 22:19	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		12/18/15 22:19	2037-26-5	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Sample: DUP-SW **Lab ID: 92278876006** Collected: 12/07/15 00:00 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/18/15 20:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:37	156-60-5	
Tetrachloroethene	**4.1J**	ug/L	5.0	1.8	1		12/18/15 20:37	127-18-4	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/18/15 20:37	79-01-6	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/18/15 20:37	75-01-4	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		12/18/15 20:37	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		12/18/15 20:37	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		12/18/15 20:37	2037-26-5	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

QC Batch: AIR/24845
QC Batch Method: RSK 175
Analysis Method: RSK 175
Analysis Description: RSK 175 AIR HEADSPACE
Associated Lab Samples: 92278876001

METHOD BLANK: 2157719
Matrix: Water
Associated Lab Samples: 92278876001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methane	ug/L	1.5J	10.0	0.63	12/14/15 17:09	

LABORATORY CONTROL SAMPLE & LCSD: 2157720 2157721

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Methane	ug/L	60.7	57.1	58.6	94	97	85-115	3	20	

SAMPLE DUPLICATE: 2157861

Parameter	Units	7535604006 Result	Dup Result	RPD	Max RPD	Qualifiers
Methane	ug/L	1.3J mg/L	1.8J		20	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

QC Batch: MPRP/20217
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 MET
Associated Lab Samples: 92278876001

METHOD BLANK: 1624361
Matrix: Water
Associated Lab Samples: 92278876001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron	ug/L	ND	50.0	25.0	12/11/15 23:00	

LABORATORY CONTROL SAMPLE: 1624362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	5000	4540	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624363 1624364

Parameter	Units	92278807004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	ND	5000	5000	5190	4410	104	88	70-130	16	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624365 1624366

Parameter	Units	92278873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	5060	5000	5000	10900	10300	117	104	70-130	6	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

QC Batch: MSV/34780 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 92278876001, 92278876002, 92278876003, 92278876004, 92278876005, 92278876006

METHOD BLANK: 1633122 Matrix: Water
Associated Lab Samples: 92278876001, 92278876002, 92278876003, 92278876004, 92278876005, 92278876006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	1.9	12/18/15 12:25	
cis-1,2-Dichloroethene	ug/L	ND	5.0	1.8	12/18/15 12:25	
Tetrachloroethene	ug/L	ND	5.0	1.8	12/18/15 12:25	
trans-1,2-Dichloroethene	ug/L	ND	5.0	1.8	12/18/15 12:25	
Trichloroethene	ug/L	ND	5.0	1.8	12/18/15 12:25	
Vinyl chloride	ug/L	ND	5.0	1.5	12/18/15 12:25	
1,2-Dichloroethane-d4 (S)	%	96	70-130		12/18/15 12:25	
4-Bromofluorobenzene (S)	%	106	70-130		12/18/15 12:25	
Toluene-d8 (S)	%	107	70-130		12/18/15 12:25	

LABORATORY CONTROL SAMPLE: 1633123

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	53.7	107	66-135	
cis-1,2-Dichloroethene	ug/L	50	50.9	102	74-124	
Tetrachloroethene	ug/L	50	49.9	100	78-122	
trans-1,2-Dichloroethene	ug/L	50	51.3	103	71-127	
Trichloroethene	ug/L	50	56.5	113	78-122	
Vinyl chloride	ug/L	50	55.2	110	58-137	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

QC Batch: WET/41854
QC Batch Method: SM 3500-Fe B
Analysis Method: SM 3500-Fe B
Analysis Description: Iron, Ferrous
Associated Lab Samples: 92278876001

METHOD BLANK: 1624032
Matrix: Water
Associated Lab Samples: 92278876001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Iron, Ferrous	mg/L	ND	0.50	0.50	12/09/15 13:45	N2

LABORATORY CONTROL SAMPLE: 1624033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Ferrous	mg/L	1.5	1.5	103	90-110	N2

SAMPLE DUPLICATE: 1624034

Parameter	Units	92278566013 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		10	H3,N2

SAMPLE DUPLICATE: 1624035

Parameter	Units	92278566005 Result	Dup Result	RPD	Max RPD	Qualifiers
Iron, Ferrous	mg/L	ND	ND		10	H3,N2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

QC Batch: WETA/25692
QC Batch Method: EPA 300.0
Analysis Method: EPA 300.0
Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92278876001

METHOD BLANK: 1623914
Matrix: Water
Associated Lab Samples: 92278876001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfate	mg/L	ND	2.0	1.0	12/09/15 14:52	

LABORATORY CONTROL SAMPLE: 1623915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.8	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623916 1623917

Parameter	Units	92278873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	ND	20	20	21.7	21.6	105	105	90-110	0	10	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

QC Batch: WETA/25684
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 92278876001

METHOD BLANK: 1623297
Matrix: Water
Associated Lab Samples: 92278876001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.020	0.010	12/08/15 23:07	

LABORATORY CONTROL SAMPLE: 1623298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623299 1623300

Parameter	Units	92278937002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	2.6	2.5	2.5	4.9	4.9	91	91	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623301 1623302

Parameter	Units	92278937003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Nitrate	mg/L	0.062	2.5	2.5	2.6	2.6	101	100	90-110	0	10	

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QUALIFIERS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

H3	Sample was received or analysis requested beyond the recognized method holding time.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278876

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92278876001	**MW-10**	RSK 175	AIR/24845		
92278876001	**MW-10**	EPA 200.7	MPRP/20217	EPA 200.7	ICP/18245
92278876001	**MW-10**	EPA 8260	MSV/34780		
92278876002	**SW00100**	EPA 8260	MSV/34780		
92278876003	**SW00200**	EPA 8260	MSV/34780		
92278876004	**SW00300**	EPA 8260	MSV/34780		
92278876005	**SW00400**	EPA 8260	MSV/34780		
92278876006	**DUP-SW**	EPA 8260	MSV/34780		
92278876001	**MW-10**	SM 3500-Fe D#4	WET/41996		
92278876001	**MW-10**	SM 3500-Fe B	WET/41854		
92278876001	**MW-10**	EPA 300.0	WETA/25692		
92278876001	**MW-10**	EPA 353.2	WETA/25684		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: November 17, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16.1**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Antea

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USP ☐ Client ☑ Commercial ☐ Pace Other_____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1505 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor No Correction

Corrected Cooler Temp.: 3.8 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AP 12-8-15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	TC	**Date:**	12/8/15
SRF Review:	TC	**Date:**	12/9/15

WO# : 92278876

92278876

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical
www.pacelabs.com

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

1995959

Section A Required Client Information:

Company: ANTEA GROUP
Address: 8008 CORPORATE CENTER DR, 100 CHARLOTTE, NC 28226
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: matthew.eckmair@anteagroup.com
Copy To: rob.thompson@anteagroup.com
Purchase Order No.:
Project Name: VARIO PRUDEN
Project Number: E04095784 1

Section C Invoice Information:

Attention: MATTHEW ECKMAIR
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: TREY CARTER
Pace Profile #: 3225-15

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NC

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): 8260

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	PCE	TCE	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	VINYL CHLORIDE	NITRATE	SULFATE	METHANE	FERROUS IRON	FERRIC IRON	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-10	WT	G			12/7/15	1228		9	X		X	X						X	X	X	X	X	X	X	X	X	X		001
2	SW00100						1125		3																					002
3	SW00200						1150																							003
4	SW00300						1135																							004
5	SW00400					12/8/15	1145																							005
6	DUP-SW					12/7/15	—																							006
7																														
8																														
9																														
10																														
11																														
12																														

92278876

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
ONLY REPORT LISTED ANALYSES	M.ECKMAIR/ANTEA GROUP	12/8/15	1463	[signature]	12-8-15	14:63	3.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: MATTHEW ECKMAIR
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/08/15

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.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 21, 2015

Mr. Rob Thompson
Antea Group
8008 Corporate Center Drive
Suite 100
Charlotte, NC 28226

RE: Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Dear Mr. Thompson:
Enclosed are the analytical results for sample(s) received by the laboratory on December 08, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

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

Sincerely,

Trey Carter
trey.carter@pacelabs.com
Project Manager

Enclosures

cc: Matthew Eckmair, Antea Group
AG Data View

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CERTIFICATIONS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE SUMMARY

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92278867001	**229 PERRY RD**	Water	12/08/15 11:25	12/08/15 14:03
92278867002	**241 PERRY RD**	Water	12/08/15 10:55	12/08/15 14:03
92278867003	**249 PERRY RD**	Water	12/08/15 10:35	12/08/15 14:03
92278867004	**DUP-PERRY RD**	Water	12/08/15 00:00	12/08/15 14:03

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SAMPLE ANALYTE COUNT

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92278867001	**229 PERRY RD**	EPA 8270	RES	7	PASI-C
		EPA 8260	GAW	71	PASI-C
92278867002	**241 PERRY RD**	EPA 8270	RES	7	PASI-C
		EPA 8260	GAW	71	PASI-C
92278867003	**249 PERRY RD**	EPA 8270	RES	7	PASI-C
		EPA 8260	GAW	71	PASI-C
92278867004	**DUP-PERRY RD**	EPA 8270	RES	4	PASI-C
		EPA 8260	GAW	71	PASI-C

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Sample: 229 PERRY RD **Lab ID: 92278867001** Collected: 12/08/15 11:25 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/09/15 14:43	12/10/15 20:34	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	87	%	21-110		1	12/09/15 14:43	12/10/15 20:34	4165-60-0	
2-Fluorobiphenyl (S)	81	%	27-110		1	12/09/15 14:43	12/10/15 20:34	321-60-8	
Terphenyl-d14 (S)	69	%	31-107		1	12/09/15 14:43	12/10/15 20:34	1718-51-0	
Phenol-d6 (S)	23	%	10-110		1	12/09/15 14:43	12/10/15 20:34	13127-88-3	
2-Fluorophenol (S)	32	%	12-110		1	12/09/15 14:43	12/10/15 20:34	367-12-4	
2,4,6-Tribromophenol (S)	56	%	27-110		1	12/09/15 14:43	12/10/15 20:34	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/21/15 09:49	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/21/15 09:49	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:49	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/21/15 09:49	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/21/15 09:49	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/21/15 09:49	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/21/15 09:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/21/15 09:49	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/21/15 09:49	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/21/15 09:49	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/21/15 09:49	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/21/15 09:49	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/21/15 09:49	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/21/15 09:49	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/21/15 09:49	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/21/15 09:49	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/21/15 09:49	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/21/15 09:49	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/21/15 09:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/21/15 09:49	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/21/15 09:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/21/15 09:49	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/21/15 09:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/21/15 09:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/21/15 09:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/21/15 09:49	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	4.4	1		12/21/15 09:49	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/21/15 09:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/21/15 09:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/21/15 09:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/21/15 09:49	594-20-7	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Sample: 229 PERRY RD **Lab ID: 92278867001** Collected: 12/08/15 11:25 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/21/15 09:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/21/15 09:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/21/15 09:49	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/21/15 09:49	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/21/15 09:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/21/15 09:49	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/21/15 09:49	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/21/15 09:49	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/21/15 09:49	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/21/15 09:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/21/15 09:49	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/21/15 09:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/21/15 09:49	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:49	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/21/15 09:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/21/15 09:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/21/15 09:49	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:49	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/21/15 09:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/21/15 09:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/21/15 09:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/21/15 09:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/21/15 09:49	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/21/15 09:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/21/15 09:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/21/15 09:49	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/21/15 09:49	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/21/15 09:49	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/21/15 09:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/21/15 09:49	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/21/15 09:49	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		12/21/15 09:49	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		12/21/15 09:49	2037-26-5	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Sample: 241 PERRY RD **Lab ID: 92278867002** Collected: 12/08/15 10:55 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/09/15 14:43	12/10/15 21:24	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	75	%	21-110		1	12/09/15 14:43	12/10/15 21:24	4165-60-0	
2-Fluorobiphenyl (S)	76	%	27-110		1	12/09/15 14:43	12/10/15 21:24	321-60-8	
Terphenyl-d14 (S)	71	%	31-107		1	12/09/15 14:43	12/10/15 21:24	1718-51-0	
Phenol-d6 (S)	17	%	10-110		1	12/09/15 14:43	12/10/15 21:24	13127-88-3	
2-Fluorophenol (S)	24	%	12-110		1	12/09/15 14:43	12/10/15 21:24	367-12-4	
2,4,6-Tribromophenol (S)	81	%	27-110		1	12/09/15 14:43	12/10/15 21:24	118-79-6	
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/21/15 09:32	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/21/15 09:32	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:32	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/21/15 09:32	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/21/15 09:32	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/21/15 09:32	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/21/15 09:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/21/15 09:32	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/21/15 09:32	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/21/15 09:32	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/21/15 09:32	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/21/15 09:32	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/21/15 09:32	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/21/15 09:32	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/21/15 09:32	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/21/15 09:32	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/21/15 09:32	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/21/15 09:32	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/21/15 09:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/21/15 09:32	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/21/15 09:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/21/15 09:32	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/21/15 09:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/21/15 09:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/21/15 09:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/21/15 09:32	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	4.4	1		12/21/15 09:32	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/21/15 09:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/21/15 09:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/21/15 09:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/21/15 09:32	594-20-7	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Sample: 241 PERRY RD **Lab ID: 92278867002** Collected: 12/08/15 10:55 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/21/15 09:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/21/15 09:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/21/15 09:32	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/21/15 09:32	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/21/15 09:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/21/15 09:32	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/21/15 09:32	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/21/15 09:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/21/15 09:32	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/21/15 09:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/21/15 09:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/21/15 09:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/21/15 09:32	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:32	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/21/15 09:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/21/15 09:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/21/15 09:32	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:32	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/21/15 09:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/21/15 09:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/21/15 09:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/21/15 09:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/21/15 09:32	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/21/15 09:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/21/15 09:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/21/15 09:32	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/21/15 09:32	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/21/15 09:32	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/21/15 09:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/21/15 09:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/21/15 09:32	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		12/21/15 09:32	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		12/21/15 09:32	2037-26-5	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Sample: 249 PERRY RD **Lab ID: 92278867003** Collected: 12/08/15 10:35 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/09/15 14:43	12/10/15 21:49	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	78	%	21-110		1	12/09/15 14:43	12/10/15 21:49	4165-60-0	
2-Fluorobiphenyl (S)	75	%	27-110		1	12/09/15 14:43	12/10/15 21:49	321-60-8	
Terphenyl-d14 (S)	66	%	31-107		1	12/09/15 14:43	12/10/15 21:49	1718-51-0	
Phenol-d6 (S)	11	%	10-110		1	12/09/15 14:43	12/10/15 21:49	13127-88-3	
2-Fluorophenol (S)	6	%	12-110		1	12/09/15 14:43	12/10/15 21:49	367-12-4	S0
2,4,6-Tribromophenol (S)	16	%	27-110		1	12/09/15 14:43	12/10/15 21:49	118-79-6	S0
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/21/15 09:14	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/21/15 09:14	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:14	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/21/15 09:14	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/21/15 09:14	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/21/15 09:14	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/21/15 09:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/21/15 09:14	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/21/15 09:14	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/21/15 09:14	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/21/15 09:14	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/21/15 09:14	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/21/15 09:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/21/15 09:14	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/21/15 09:14	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/21/15 09:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/21/15 09:14	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/21/15 09:14	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/21/15 09:14	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/21/15 09:14	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/21/15 09:14	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/21/15 09:14	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/21/15 09:14	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:14	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/21/15 09:14	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/21/15 09:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/21/15 09:14	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	4.4	1		12/21/15 09:14	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/21/15 09:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/21/15 09:14	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/21/15 09:14	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/21/15 09:14	594-20-7	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Sample: 249 PERRY RD **Lab ID: 92278867003** Collected: 12/08/15 10:35 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/21/15 09:14	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/21/15 09:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/21/15 09:14	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/21/15 09:14	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/21/15 09:14	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/21/15 09:14	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/21/15 09:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/21/15 09:14	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/21/15 09:14	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/21/15 09:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/21/15 09:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/21/15 09:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/21/15 09:14	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:14	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/21/15 09:14	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/21/15 09:14	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/21/15 09:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:14	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/21/15 09:14	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/21/15 09:14	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/21/15 09:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/21/15 09:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/21/15 09:14	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 09:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/21/15 09:14	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/21/15 09:14	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/21/15 09:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/21/15 09:14	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/21/15 09:14	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/21/15 09:14	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/21/15 09:14	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/21/15 09:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		12/21/15 09:14	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/21/15 09:14	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		12/21/15 09:14	2037-26-5	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Sample: DUP-PERRY RD **Lab ID: 92278867004** Collected: 12/08/15 00:00 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV HVI Semivol Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
bis(2-Ethylhexyl)phthalate	ND	ug/L	6.0	0.85	1	12/09/15 14:43	12/15/15 17:01	117-81-7	
Surrogates									
Nitrobenzene-d5 (S)	77	%	21-110		1	12/09/15 14:43	12/15/15 17:01	4165-60-0	
2-Fluorobiphenyl (S)	67	%	27-110		1	12/09/15 14:43	12/15/15 17:01	321-60-8	
Terphenyl-d14 (S)	108	%	31-107		1	12/09/15 14:43	12/15/15 17:01	1718-51-0	S3
8260 MSV	Analytical Method: EPA 8260								
Acetone	ND	ug/L	25.0	10.0	1		12/21/15 10:06	67-64-1	
Benzene	ND	ug/L	5.0	1.7	1		12/21/15 10:06	71-43-2	
Bromobenzene	ND	ug/L	5.0	1.5	1		12/21/15 10:06	108-86-1	
Bromochloromethane	ND	ug/L	5.0	2.2	1		12/21/15 10:06	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1.7	1		12/21/15 10:06	75-27-4	
Bromoform	ND	ug/L	5.0	1.5	1		12/21/15 10:06	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		12/21/15 10:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	4.9	1		12/21/15 10:06	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		12/21/15 10:06	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1.9	1		12/21/15 10:06	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1.7	1		12/21/15 10:06	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1.6	1		12/21/15 10:06	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1.9	1		12/21/15 10:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1.7	1		12/21/15 10:06	108-90-7	
Chloroethane	ND	ug/L	10.0	1.6	1		12/21/15 10:06	75-00-3	
Chloroform	ND	ug/L	5.0	1.9	1		12/21/15 10:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1.5	1		12/21/15 10:06	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1.5	1		12/21/15 10:06	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1.6	1		12/21/15 10:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.0	1.7	1		12/21/15 10:06	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1.8	1		12/21/15 10:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1.7	1		12/21/15 10:06	106-93-4	
Dibromomethane	ND	ug/L	5.0	2.0	1		12/21/15 10:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 10:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 10:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1.5	1		12/21/15 10:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1.6	1		12/21/15 10:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1.8	1		12/21/15 10:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		12/21/15 10:06	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	4.4	1		12/21/15 10:06	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1.9	1		12/21/15 10:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 10:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 10:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1.7	1		12/21/15 10:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1.7	1		12/21/15 10:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1.6	1		12/21/15 10:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1.7	1		12/21/15 10:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/21/15 10:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1.6	1		12/21/15 10:06	10061-02-6	

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ANALYTICAL RESULTS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Sample: DUP-PERRY RD **Lab ID: 92278867004** Collected: 12/08/15 00:00 Received: 12/08/15 14:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Diisopropyl ether	ND	ug/L	5.0	1.7	1		12/21/15 10:06	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1.6	1		12/21/15 10:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1.8	1		12/21/15 10:06	87-68-3	
2-Hexanone	ND	ug/L	10.0	3.8	1		12/21/15 10:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1.6	1		12/21/15 10:06	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1.6	1		12/21/15 10:06	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1.9	1		12/21/15 10:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	3.6	1		12/21/15 10:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		12/21/15 10:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		12/21/15 10:06	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1.5	1		12/21/15 10:06	103-65-1	
Styrene	ND	ug/L	5.0	1.6	1		12/21/15 10:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1.7	1		12/21/15 10:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1.5	1		12/21/15 10:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1.8	1		12/21/15 10:06	127-18-4	
Toluene	ND	ug/L	5.0	1.6	1		12/21/15 10:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	2.0	1		12/21/15 10:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1.7	1		12/21/15 10:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1.9	1		12/21/15 10:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1.7	1		12/21/15 10:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1.8	1		12/21/15 10:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1.7	1		12/21/15 10:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1.5	1		12/21/15 10:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1.5	1		12/21/15 10:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1.3	1		12/21/15 10:06	108-67-8	
Vinyl acetate	ND	ug/L	10.0	2.3	1		12/21/15 10:06	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1.5	1		12/21/15 10:06	75-01-4	
m&p-Xylene	ND	ug/L	10.0	3.1	1		12/21/15 10:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1.6	1		12/21/15 10:06	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		12/21/15 10:06	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		12/21/15 10:06	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		12/21/15 10:06	2037-26-5	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

QC Batch: MSV/34827 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 92278867001, 92278867002, 92278867003, 92278867004

METHOD BLANK: 1634053 Matrix: Water
Associated Lab Samples: 92278867001, 92278867002, 92278867003, 92278867004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,1,1-Trichloroethane	ug/L	ND	5.0	1.9	12/21/15 06:41	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,1,2-Trichloroethane	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,1-Dichloroethane	ug/L	ND	5.0	1.8	12/21/15 06:41	
1,1-Dichloroethene	ug/L	ND	5.0	1.9	12/21/15 06:41	
1,1-Dichloropropene	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	2.0	12/21/15 06:41	
1,2,3-Trichloropropane	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.0	1.7	12/21/15 06:41	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,2-Dichlorobenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,2-Dichloroethane	ug/L	ND	5.0	1.8	12/21/15 06:41	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	4.4	12/21/15 06:41	
1,2-Dichloropropane	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	1.3	12/21/15 06:41	
1,3-Dichlorobenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,3-Dichloropropane	ug/L	ND	5.0	1.7	12/21/15 06:41	
1,4-Dichlorobenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
2,2-Dichloropropane	ug/L	ND	5.0	1.6	12/21/15 06:41	
2-Butanone (MEK)	ug/L	ND	10.0	4.9	12/21/15 06:41	
2-Chlorotoluene	ug/L	ND	5.0	1.5	12/21/15 06:41	
2-Hexanone	ug/L	ND	10.0	3.8	12/21/15 06:41	
4-Chlorotoluene	ug/L	ND	5.0	1.6	12/21/15 06:41	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	3.6	12/21/15 06:41	
Acetone	ug/L	ND	25.0	10.0	12/21/15 06:41	
Benzene	ug/L	ND	5.0	1.7	12/21/15 06:41	
Bromobenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
Bromochloromethane	ug/L	ND	5.0	2.2	12/21/15 06:41	
Bromodichloromethane	ug/L	ND	5.0	1.7	12/21/15 06:41	
Bromoform	ug/L	ND	5.0	1.5	12/21/15 06:41	
Bromomethane	ug/L	ND	10.0	2.5	12/21/15 06:41	
Carbon tetrachloride	ug/L	ND	5.0	1.9	12/21/15 06:41	
Chlorobenzene	ug/L	ND	5.0	1.7	12/21/15 06:41	
Chloroethane	ug/L	ND	10.0	1.6	12/21/15 06:41	
Chloroform	ug/L	ND	5.0	1.9	12/21/15 06:41	
Chloromethane	ug/L	ND	5.0	1.5	12/21/15 06:41	
cis-1,2-Dichloroethene	ug/L	ND	5.0	1.8	12/21/15 06:41	
cis-1,3-Dichloropropene	ug/L	ND	5.0	1.6	12/21/15 06:41	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

METHOD BLANK: 1634053 Matrix: Water
Associated Lab Samples: 92278867001, 92278867002, 92278867003, 92278867004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	5.0	1.8	12/21/15 06:41	
Dibromomethane	ug/L	ND	5.0	2.0	12/21/15 06:41	
Dichlorodifluoromethane	ug/L	ND	5.0	1.6	12/21/15 06:41	
Diisopropyl ether	ug/L	ND	5.0	1.7	12/21/15 06:41	
Ethylbenzene	ug/L	ND	5.0	1.6	12/21/15 06:41	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	1.8	12/21/15 06:41	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	1.6	12/21/15 06:41	
m&p-Xylene	ug/L	ND	10.0	3.1	12/21/15 06:41	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	12/21/15 06:41	
Methylene Chloride	ug/L	ND	5.0	1.9	12/21/15 06:41	
n-Butylbenzene	ug/L	ND	5.0	1.9	12/21/15 06:41	
n-Propylbenzene	ug/L	ND	5.0	1.5	12/21/15 06:41	
Naphthalene	ug/L	ND	5.0	2.0	12/21/15 06:41	
o-Xylene	ug/L	ND	5.0	1.6	12/21/15 06:41	
p-Isopropyltoluene	ug/L	ND	5.0	1.6	12/21/15 06:41	
sec-Butylbenzene	ug/L	ND	5.0	1.7	12/21/15 06:41	
Styrene	ug/L	ND	5.0	1.6	12/21/15 06:41	
tert-Butyl Alcohol	ug/L	ND	100	57.7	12/21/15 06:41	
tert-Butylbenzene	ug/L	ND	5.0	1.6	12/21/15 06:41	
Tetrachloroethene	ug/L	ND	5.0	1.8	12/21/15 06:41	
Toluene	ug/L	ND	5.0	1.6	12/21/15 06:41	
trans-1,2-Dichloroethene	ug/L	ND	5.0	1.8	12/21/15 06:41	
trans-1,3-Dichloropropene	ug/L	ND	5.0	1.6	12/21/15 06:41	
Trichloroethene	ug/L	ND	5.0	1.8	12/21/15 06:41	
Trichlorofluoromethane	ug/L	ND	10.0	1.7	12/21/15 06:41	
Vinyl acetate	ug/L	ND	10.0	2.3	12/21/15 06:41	
Vinyl chloride	ug/L	ND	5.0	1.5	12/21/15 06:41	
1,2-Dichloroethane-d4 (S)	%	94	70-130		12/21/15 06:41	
4-Bromofluorobenzene (S)	%	100	70-130		12/21/15 06:41	
Toluene-d8 (S)	%	101	70-130		12/21/15 06:41	

LABORATORY CONTROL SAMPLE: 1634054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.8	104	80-125	
1,1,1-Trichloroethane	ug/L	50	47.6	95	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	79-124	
1,1,2-Trichloroethane	ug/L	50	52.7	105	85-125	
1,1-Dichloroethane	ug/L	50	45.8	92	73-126	
1,1-Dichloroethene	ug/L	50	45.5	91	66-135	
1,1-Dichloropropene	ug/L	50	48.0	96	74-135	
1,2,3-Trichlorobenzene	ug/L	50	46.4	93	73-135	
1,2,3-Trichloropropane	ug/L	50	49.9	100	75-130	
1,2,4-Trichlorobenzene	ug/L	50	46.2	92	75-134	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

LABORATORY CONTROL SAMPLE: 1634054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	79-125	
1,2-Dibromo-3-chloropropane	ug/L	50	48.5	97	71-133	
1,2-Dibromoethane (EDB)	ug/L	50	54.5	109	83-124	
1,2-Dichlorobenzene	ug/L	50	50.1	100	80-133	
1,2-Dichloroethane	ug/L	50	45.7	91	67-128	
1,2-Dichloroethene (Total)	ug/L	100	93.9	94	73-128	
1,2-Dichloropropane	ug/L	50	48.3	97	75-132	
1,3,5-Trimethylbenzene	ug/L	50	48.7	97	79-123	
1,3-Dichlorobenzene	ug/L	50	50.3	101	77-130	
1,3-Dichloropropane	ug/L	50	53.2	106	76-131	
1,4-Dichlorobenzene	ug/L	50	51.3	103	78-130	
2,2-Dichloropropane	ug/L	50	42.0	84	40-160	
2-Butanone (MEK)	ug/L	100	107	107	61-144	
2-Chlorotoluene	ug/L	50	45.7	91	74-132	
2-Hexanone	ug/L	100	103	103	68-143	
4-Chlorotoluene	ug/L	50	49.6	99	76-133	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	72-135	
Acetone	ug/L	100	106	106	48-146	
Benzene	ug/L	50	50.7	101	80-125	
Bromobenzene	ug/L	50	49.9	100	75-125	
Bromochloromethane	ug/L	50	51.8	104	71-125	
Bromodichloromethane	ug/L	50	50.4	101	78-124	
Bromoform	ug/L	50	42.9	86	71-128	
Bromomethane	ug/L	50	36.1	72	40-160	
Carbon tetrachloride	ug/L	50	47.8	96	69-131	
Chlorobenzene	ug/L	50	51.0	102	81-122	
Chloroethane	ug/L	50	37.6	75	39-148	
Chloroform	ug/L	50	46.6	93	73-127	
Chloromethane	ug/L	50	49.0	98	44-146	
cis-1,2-Dichloroethene	ug/L	50	45.9	92	74-124	
cis-1,3-Dichloropropene	ug/L	50	52.4	105	72-132	
Dibromochloromethane	ug/L	50	54.8	110	78-125	
Dibromomethane	ug/L	50	50.3	101	82-120	
Dichlorodifluoromethane	ug/L	50	38.9	78	34-157	
Diisopropyl ether	ug/L	50	54.8	110	69-135	
Ethylbenzene	ug/L	50	49.1	98	79-121	
Hexachloro-1,3-butadiene	ug/L	50	45.2	90	72-131	
Isopropylbenzene (Cumene)	ug/L	50	51.1	102	81-132	
m&p-Xylene	ug/L	100	96.4	96	81-124	
Methyl-tert-butyl ether	ug/L	50	54.3	109	74-131	
Methylene Chloride	ug/L	50	52.9	106	64-133	
n-Butylbenzene	ug/L	50	46.0	92	78-127	
n-Propylbenzene	ug/L	50	47.7	95	78-130	
Naphthalene	ug/L	50	47.1	94	73-133	
o-Xylene	ug/L	50	47.4	95	79-131	
p-Isopropyltoluene	ug/L	50	48.3	97	80-131	
sec-Butylbenzene	ug/L	50	52.0	104	80-133	

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(704)875-9092

QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

LABORATORY CONTROL SAMPLE: 1634054

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Styrene	ug/L	50	48.5	97	84-126	
tert-Butyl Alcohol	ug/L	500	519	104	36-136	
tert-Butylbenzene	ug/L	50	41.1	82	77-133	
Tetrachloroethene	ug/L	50	50.5	101	78-122	
Toluene	ug/L	50	47.6	95	80-121	
trans-1,2-Dichloroethene	ug/L	50	48.0	96	71-127	
trans-1,3-Dichloropropene	ug/L	50	48.4	97	69-141	
Trichloroethene	ug/L	50	52.7	105	78-122	
Trichlorofluoromethane	ug/L	50	41.1	82	53-137	
Vinyl acetate	ug/L	100	101	101	40-160	
Vinyl chloride	ug/L	50	46.5	93	58-137	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

QC Batch: OEXT/39585 | Analysis Method: EPA 8270
QC Batch Method: EPA 3510 | Analysis Description: 8270 Water MSSV HVI
Associated Lab Samples: 92278867001, 92278867002, 92278867003, 92278867004

METHOD BLANK: 1624142 | Matrix: Water
Associated Lab Samples: 92278867001, 92278867002, 92278867003, 92278867004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	ND	6.0	0.85	12/10/15 15:34	
2,4,6-Tribromophenol (S)	%	64	27-110		12/10/15 15:34	
2-Fluorobiphenyl (S)	%	78	27-110		12/10/15 15:34	
2-Fluorophenol (S)	%	36	12-110		12/10/15 15:34	
Nitrobenzene-d5 (S)	%	81	21-110		12/10/15 15:34	
Phenol-d6 (S)	%	42	10-110		12/10/15 15:34	
Terphenyl-d14 (S)	%	67	31-107		12/10/15 15:34	

LABORATORY CONTROL SAMPLE: 1624143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	50	50.1	100	50-145	
2,4,6-Tribromophenol (S)	%			109	27-110	
2-Fluorobiphenyl (S)	%			99	27-110	
2-Fluorophenol (S)	%			66	12-110	
Nitrobenzene-d5 (S)	%			92	21-110	
Phenol-d6 (S)	%			50	10-110	
Terphenyl-d14 (S)	%			79	31-107	

MATRIX SPIKE SAMPLE: 1624144

Parameter	Units	92278935003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	45.5	91	23-102	
2,4,6-Tribromophenol (S)	%				92	27-110	
2-Fluorobiphenyl (S)	%				87	27-110	
2-Fluorophenol (S)	%				47	12-110	
Nitrobenzene-d5 (S)	%				85	21-110	
Phenol-d6 (S)	%				29	10-110	
Terphenyl-d14 (S)	%				65	31-107	

SAMPLE DUPLICATE: 1624145

Parameter	Units	92278867001 Result	Dup Result	RPD	Max RPD	Qualifiers
bis(2-Ethylhexyl)phthalate	ug/L	ND	ND		30	
2,4,6-Tribromophenol (S)	%	56	59	5		
2-Fluorobiphenyl (S)	%	81	81	0		
2-Fluorophenol (S)	%	32	42	28		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

SAMPLE DUPLICATE: 1624145

Parameter	Units	92278867001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrobenzene-d5 (S)	%	87	86	1		
Phenol-d6 (S)	%	23	34	39		
Terphenyl-d14 (S)	%	69	83	18		

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QUALIFIERS

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: VARCO PRUDEN E040957841
Pace Project No.: 92278867

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92278867001	**229 PERRY RD**	EPA 3510	OEXT/39585	EPA 8270	MSSV/11626
92278867002	**241 PERRY RD**	EPA 3510	OEXT/39585	EPA 8270	MSSV/11626
92278867003	**249 PERRY RD**	EPA 3510	OEXT/39585	EPA 8270	MSSV/11626
92278867004	**DUP-PERRY RD**	EPA 3510	OEXT/39585	EPA 8270	MSSV/11626
92278867001	**229 PERRY RD**	EPA 8260	MSV/34827		
92278867002	**241 PERRY RD**	EPA 8260	MSV/34827		
92278867003	**249 PERRY RD**	EPA 8260	MSV/34827		
92278867004	**DUP-PERRY RD**	EPA 8260	MSV/34827		

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Pace Analytical	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: November 17, 2015 Page 1 of 2*
	Document Number: **F-CHR-CS-003-rev.16.1**	Issuing Authority: Pace Huntersville Quality Office

Client Name: Antea

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1505 **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Temp Correction Factor No Correction

Corrected Cooler Temp.: 3.8 °C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: AP 12-8-15

		Comments:
Chain of Custody Present:	☐Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☐Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☐Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☐Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	TC	Date:	12/8/15
SRF Review:	TC	Date:	12/8/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92278867

92278867

(If no label available)

Pace Analytical
www.pacelabs.com

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

1995964

Section A Required Client Information:

Company: ANTEA GROUP
Address:
Email To:
Phone: Fax:
Requested Due Date/TAT:

Section B Required Project Information:

Report To: matthew.eckmair@anteagroup.com
Copy To: rob.thompson@anteagroup.com
Purchase Order No.:
Project Name: VARCO PRUDENCE
Project Number: E040957841

Section C Invoice Information:

Attention: MATTHEW ECKMAIR
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: TREY CARTER
Pace Profile #: 3225-14

REGULATORY AGENCY

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

Site Location STATE: NC

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): VOCs by 8260; bis(2-ethylhexyl) phthalate by 8270

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	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOCs by 8260	bis(2-ethylhexyl) phthalate by 8270	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	229 PERRY RD		G			12/8/15	1125		5	2			3					X	X		001
2	241 PERRY RD		↓			↓	1055		↓	↓			↓					↓	↓		002
3	249 PERRY RD		↓			↓	1035		↓	↓			↓					↓	↓		003
4	DUP-PERRY RD		↓			↓	—		↓	↓			↓					↓	↓		004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
ONLY REPORT LISTED ANALYSES	M.ECKMAIR/ANTEA GROUP	12/8/15	1403	[signature]	12-8-15	14:03	3.8	✓	✓	✓

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MATTHEW ECKMAIR

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/08/15

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.

Appendix D

Groundwater Sampling Records (December 2015)

SAMPLING LOG

Client/Project: VARCO PRUDEN
Site Location: KERNERSVILLE, NC
Sampling Personnel: M. ECKMAIR
Job Number:
Weather: 58°F, CLOUDY

Event: GWS
Well ID: MW 2
Date: 12/7/15
Time In: 1405 Time Out: 1425

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		47.50	
Total Depth	(feet)		58.00	
Screened Interval	(feet)		43-58	
Pump Intake ~	(feet)		56.00	

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	10.5
Volume of Water in Well:	(gal)	1.71
Pumping Rate of Pump:	(mL/min)	250
PumpStart: 1409	Pump Stop:	1420
Minutes of Pumping:		11
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:

VOC	8260	☒
Metals	6010	☐
Inorganics	Various	☒
		☐
Other: BELOW		☐
		☐

Sample ID: MW-2
Sample Time: 1420
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: —
Total Bottles: 14

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON
Tubing Used: Teflon ☒ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON

Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: ~~Horiba U-22~~

Time / Parameter	1	2	3	4	5	6	7	8	9
	1409	1412	1415	1418					
Rate (ml/min)	250								
Depth to Water (ft. TOC)	47.50	48.08	48.16	48.00					
Temperature (°C)	16.85	16.55	16.81	17.17					
pH	5.63	5.69	5.67	5.67					
Conductance (mS/cm)	0.081	0.076	0.076	0.076					
Dissolved Oxygen mg/L)	6.93	6.53	6.57	6.53					
Turbidity (NTU)	391	201	237	181					
ORP (mV)	139.7	192.3	196.2	195.9					

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: HERIN

Decontamination Fluids Used: ALCONOX

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: PACE
Shipped Via: ☐ Federal Express ☐ UPS ☒ Other DROP
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By: M. ECKMAIR

SAMPLING LOG

Client/Project: VARCO PRUDEN
Site Location: KERNERSVILLE, NC
Sampling Personnel: M.ECKMAIR
Job Number:
Weather: 55°F, SUNNY

Event: GWS
Well ID: MW-3
Date: 12/7/15
Time In: 1315 Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		22.90	
Total Depth	(feet)		28.00	
Screened Interval	(feet)		13-28	
Pump Intake ~	(feet)		26.00	

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	5.10
Volume of Water in Well:	(gal)	0.83
Pumping Rate of Pump:	(mL/min)	250
PumpStart: 1318	Pump Stop:	13
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:
VOC 8260 ☒
Metals 6010 ☐
Inorganics Various ☒
☐
Other: BELOW ☐
☐

Sample ID: MW-3
Sample Time:
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: —
Total Bottles: 14

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON
Tubing Used: Teflon ☒ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON

Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: ~~Horiba U-22~~

Time / Parameter	1	2	3	4	5	6	7	8	9
	1318	1321	1324	1327					
Rate (ml/min)	250	→	→	→					
Depth to Water (ft. TOC)	22.90	24.39	24.39	24.39					
Temperature (°C)	15.47	15.63	15.80	15.90					
pH	5.68	5.61	5.63	5.66					
Conductance (mS/cm)	0.064	0.064	0.063	0.063					
Dissolved Oxygen mg/L)	6.58	6.32	6.39	6.34					
Turbidity (NTU)	538	327	233	188					
ORP (mV)	155.5	160.1	166.7	166.3					

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: HERON

Decontamination Fluids Used: ALCONOX

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: PACE
Shipped Via: Federal Express ☐ UPS ☐ Other ☒ DROP
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By: M. ECKMAIR

SAMPLING LOG

Client/Project: VARCO PRUDEN
Site Location: KERNERSVILLE, NC
Sampling Personnel: MECKMAIR
Job Number:
Weather: 52°F, CLOUDY

Event: GWS
Well ID: MW-5
Date: 12/7/15
Time In: 1618 Time Out: 1635

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		38.43	
Total Depth	(feet)		216	
Screened Interval	(feet)		211-216	
Pump Intake ~	(feet)		100	

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☑
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	177.57
Volume of Water in Well:	(gal)	28.94
Pumping Rate of Pump:	(mL/min)	250
PumpStart: 1621	Pump Stop:	1630
Minutes of Pumping:		11
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☑
☑
Other: BELOW ☐
☐

Sample ID: MW-5
Sample Time: 1630
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: —
Total Bottles: 14

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☑ MONSOON
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☑ MONSOON

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: ~~Horiba U-22~~

Time / Parameter	1	2	3	4	5	6	7	8	9
	1621	1624	1627	1630					
Rate (ml/min)	250	→	→	→					
Depth to Water (ft. TOC)	38.43	44.02	45.85	47.12					
Temperature (°C)	15.48	15.71	15.86	15.93					
pH	9.12	8.57	8.55	8.54					
Conductance (mS/cm)	0.147	0.155	0.155	0.155					
Dissolved Oxygen mg/L)	0.52	0.37	0.25	0.24					
Turbidity (NTU)	88.7	37.7	21.3	17.1					
ORP (mV)	-348.3	-274.3	-275.3	-283.9					

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: HERIN

Decontamination Fluids Used: ALCONOX

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: PACE
Shipped Via: ☐ Federal Express ☐ UPS ☑ Other DROP
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By: M. ECKMAIR

SAMPLING LOG

Client/Project: VARCO - PRUDIN
Site Location: KERNERSVILLE, NC
Sampling Personnel: M. ECKMAIR
Job Number:
Weather: 38°F, SUNNY

Event: GWS
Well ID: MW-6
Date: 12/7/15
Time In: 1020 Time Out: 1038

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		44.03	
Total Depth	(feet)		65.00	
Screened Interval	(feet)		55-65	
Pump Intake ~	(feet)		60.00	

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☐ No ☒
Well Diameter: 1" ☐ 2" ☒ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	20.97
Volume of Water in Well:	(gal)	3.42
Pumping Rate of Pump:	(mL/min)	250
PumpStart: 1025	Pump Stop:	1035
Minutes of Pumping:		10
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:
VOC 8260 ☒
Metals 6010 ☐
Inorganics Various ☒
☐
Other: BELOW ☐
☐

Sample ID:
Sample Time: 1035
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: —
Total Bottles: 14

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON
Tubing Used: Teflon ☒ Polyethylene ☒
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON

Did well go dry? Yes ☐ No ☒

Water Quality Meter Type: ~~Horiba U-22~~ H198194

Time / Parameter	1	2	3	4	5	6	7	8	9
	1025	1028	1031	1034					
Rate (ml/min)	250	→	→	→					
Depth to Water (ft. TOC)	44.03	48.20	53.55	54.89					
Temperature (°C)	15.57	15.89	16.56	16.59					
pH	6.80	6.71	6.72	6.72					
Conductance (mS/cm)	0.307	0.305	0.304	0.302					
Dissolved Oxygen mg/L)	1.65	1.63	1.74	1.79					
Turbidity (NTU)	18.5	50.8	33.0	38.0					
ORP (mV)	62.1	76.5	86.0	91.7					

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: HERIN

Decontamination Fluids Used: ALCONOX

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: PACE
Shipped Via: ☐ Federal Express ☐ UPS ☒ Other DROP
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By: MECKMAIR

SAMPLING LOG

Client/Project: VARCO PRUDEN
Site Location: KERNERSVILLE, NC
Sampling Personnel: M. ECKMAIR
Job Number:
Weather: 58°F, OVERCAST

Event: GWS
Well ID: MW-7
Date: 12/7/15
Time In: 1700 Time Out: 1720

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		40.64	
Total Depth	(feet)		52.00	
Screened Interval	(feet)		37-52	
Pump Intake ~	(feet)		50	

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	11.36
Volume of Water in Well:	(gal)	1.85
Pumping Rate of Pump:	(mL/min)	250
PumpStart: 1702	Pump Stop:	1715
Minutes of Pumping:		13
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:
VOC 8260 ☒
Metals 6010 ☐
Inorganics Various ☒
☐
Other: BELOW ☐
☐

Sample ID:
Sample Time: 1715
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: —
Total Bottles: 14

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON
Tubing Used: Teflon ☒ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON

Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: ~~Horiba U-22~~

Time / Parameter	1	2	3	4	5	6	7	8	9
	1702	1705	1708	1711					
Rate (ml/min)	250	→	→	→					
Depth to Water (ft. TOC)	40.64	41.07	42.31	42.83					
Temperature (°C)	14.73	15.21	15.09	15.07					
pH	4.24	5.78	5.77	5.78					
Conductance (mS/cm)	0.201	0.165	0.156	0.159					
Dissolved Oxygen mg/L)	0.71	1.13	1.17	1.20					
Turbidity (NTU)	238	191	153	121					
ORP (mV)	-74.6	-14.4	2.4	2.8					

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: HERIN

Decontamination Fluids Used: ALCONOX

Ambient Air (ppm): — Well Mouth (ppm): —

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: PACE
Shipped Via: ☐ Federal Express ☐ UPS ☒ Other DROP
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By: M. ECKMAIR

SAMPLING LOG

Client/Project: VARCO PRUDEN
Site Location: KERNERSVILLE, NC
Sampling Personnel: M. ECKMAIR
Job Number:
Weather: 58°F, CLOUDY

Event: GWS
Well ID: MW-8
Date: 12/7/15
Time In: 1500 Time Out: 1523

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		41.30	
Total Depth	(feet)		60.00	
Screened Interval	(feet)		45-60	
Pump Intake ~	(feet)		55.00	

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☑
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	15.70
Volume of Water in Well:	(gal)	3.05
Pumping Rate of Pump:	(mL/min)	250
PumpStart: 1507	Pump Stop:	1520
Minutes of Pumping:		13
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☑ MONSOON
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: ~~Horiba U-22~~

SAMPLING INFORMATION

Analyses:
VOC 8260 ☒
Metals 6010 ☐
Inorganics Various ☒
☐
Other: BELOW ☐
☐

Sample ID: MW-8
Sample Time: 1520
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☒ No ☒
Duplicate ID: DUP-1
Total Bottles: 28

Time / Parameter	1	2	3	4	5	6	7	8	9
	1507	1510	1513	1516	1519				
Rate (ml/min)	250	→	→	→	→				
Depth to Water (ft. TOC)	41.30	42.81	42.23	42.35	42.33				
Temperature (°C)	16.31	16.52	16.64	16.78	16.84				
pH	5.73	5.96	5.85	5.77	5.68				
Conductance (mS/cm)	0.123	0.148	0.130	0.123	0.116				
Dissolved Oxygen mg/L)	2.43	2.22	2.80	3.20	3.63				
Turbidity (NTU)	124	171	158	150	93.3				
ORP (mV)	145.6	37.3	76.8	99.2	120.4				

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: HERIN

Decontamination Fluids Used: ACCONOX

Ambient Air (ppm): ___ Well Mouth (ppm): ___

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: PACE
Shipped Via: ☐ Federal Express ☐ UPS ☒ Other DROP
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By: M. ECKMAIR

SAMPLING LOG

Client/Project: VARCO PRUDEN
Site Location: KERNERSVILLE, NC
Sampling Personnel: M. ECKMAIR
Job Number:
Weather: 55°F, SUNNY

Event: GWS
Well ID: MW-10
Date: 12/7/15
Time In: 1215 Time Out: 1230

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		18.73	
Total Depth	(feet)		36.00	
Screened Interval	(feet)		21-36	
Pump Intake –	(feet)		35	

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☒
Well Locked: Yes ☒ No ☐
Measuring Point Marked: Yes ☒ No ☐
Well Diameter: 1" ☐ 2" ☒ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	17.27
Volume of Water in Well:	(gal)	2.82
Pumping Rate of Pump:	(mL/min)	250
PumpStart: 1218	Pump Stop:	1228
Minutes of Pumping:		10
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP
± 0.1	± 10%	± 3.0%	± 10 mV

SAMPLING INFORMATION

Analyses:
VOC 8260 ☒
Metals 6010 ☐
Inorganics Various ☒
☐
Other: BELOW ☐
☐
Sample ID: MW-10
Sample Time: 1228
MS/MSD: Yes ☐ No ☒
Duplicate: Yes ☐ No ☒
Duplicate ID: —
Total Bottles: 9

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON
Tubing Used: Teflon ☒ Polyethylene ☒
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☒ MONSOON

Did well go dry? Yes ☐ No ☒ Water Quality Meter Type: ~~Horiba U-22~~

Time / Parameter	1	2	3	4	5	6	7	8	9
	1218	1221	1224	1227					
Rate (ml/min)	250								
Depth to Water (ft. TOC)	18.75	18.04	18.10	18.11					
Temperature (°C)	14.58	14.79	14.18	14.94					
pH	5.47	5.50	5.52	5.54					
Conductance (mS/cm)	0.082	0.082	0.082	0.082					
Dissolved Oxygen mg/L)	4.21	4.01	3.97	4.13					
Turbidity (NTU)	9.68	171	120	76.2					
ORP (mV)	166.0	190.4	191.2	193.4					

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: HERON

Decontamination Fluids Used: ALCONOX

Ambient Air (ppm): Well Mouth (ppm):

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: PACE
Shipped Via: ☐ Federal Express ☐ UPS ☒ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By: M. ECKMAIR

Appendix E

Historical Groundwater Analytical Data

APPENDIX E
Historical Groundwater Analytical Data
Former Varco-Prudent Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea US of NC Project No. E040957841

ANALYTE DETECTED			Acetone	Benzene	2,6-Di-tert-Butyl-p-benzoquinone	Benzothiazole	Di-n-butylphthalate	Caprolactam	Chloroform	Cyclohexanol	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-dichloroethene	Diethylene Glycol	1,4-Dioxane	Bis(2-ethylhexyl)phthalate (BEHP)	2,6-Di-tert-butyl-4-methyl phenol	Methyl tert-butyl ether	Myristic acid	Palmitic acid	Phenol	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene
2L Groundwater Standards (Pre-January 2010)			**700**	**1**	**NE**	**NE**	**700**	**3500**	**70**	**NE**	**70**	**7**	**NE**	**70**	**100**	**NE**	**NE**	**2.5**	**NE**	**200**	**NE**	**NE**	**300**	**0.7**	**2.8**	**350**
2L Groundwater Standards (Effective April 1, 2013)			**6000**	**1**	**NE**	**NE**	**700**	**4000**	**70**	**NE**	**6**	**350**	**NE**	**70**	**100**	**NE**	**3**	**3**	**NE**	**20**	**NE**	**NE**	**30**	**0.7**	**3**	**400**
SITE ID	**DATE**	**Sample Type**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
MW-01	1/11/1996	Primary	<50	<5	-	-	<10	-	<5	84	<5	<5	-	<5	<5	-	-	<10	24	<5	-	-	<10	<5	<5	<5
	5/16/1996	Primary		-	-	-	<10	23	-	38	-	-	-	-	-	-	-	<10	-	-	2	2	<10	-	-	-
	6/10/1997	Primary	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	12	-	-	-
	12/16/1997	Primary	<5	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	3	<1	-	-	<10	**2**	<1	<1
	7/01/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<10	-	-	<10	<1	<1	-
	12/02/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	**3**	<1	<1
	6/30/1999	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	3/28/2000	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	**1**	<1	<1
	8/21/2002	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	**25**	-	<1	-	-	<10	**3**	<1	<1
	2/25/2003	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	2	<1
	5/15/2003	Primary	-	<5.0	-	-	<10.0	-	<5.0	-	<5.0	<5.0	-	<5.0	<5.0	-	-	<10.0	-	<5.0	-	-	<10.0	<5.0	<5.0	<5.0
	8/18/2003	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	1.2	-	<1.0	<1.0	-	-	<10.0	-	<1.0	-	-	<10.0	<1.0	1.1	<1.0
	11/21/2003	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	1.8	-	<1.0	<1.0	-	-	<10.0	-	<1.0	-	-	<10.0	**1.41**	1.2	<1.0
	7/09/2004	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0		<1.0	<1.0	-	-	<10.0	-	<1.0	-	-	<10.0	<1.0	<1.0	<1.0
	6/17/2005	Primary	-	<0.31	-	-	<2.4	-	<0.29	-	<0.42	<0.39	-	<0.33	<0.44	-	-	<2.3	-	<0.22	-	-	<1.5	<0.16	<0.26	<0.15
	6/16/2006	Primary	<1.8	<0.31	-	-	<2.4	-	<0.29	-	<0.42	<0.39	<0.5	<0.33	<0.44	-	-	<2.3	-	<0.22	-	-	<1.5	**1.3**	<0.26	<0.15
	6/25/2007	Primary	<25.	<1.0	-	-	<50.	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<50.	-	<1.0	-	-	<50.	**1.0**	<1.0	<1.0
	6/25/2008	Primary	<25.0	<1.0	-	-	<12.3	-	1.7	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<12.3	-	<1.0	-	-	<12.3	**1.1**	1.1	<1.0
	6/18/2009	Primary	<25.0	<1.0	-	-	<12.5	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<12.5	-	<1.0	-	-	<12.5	**4.4**	<1.0	-
	7/06/2010	Primary	<25.0	<1.0	-	-	<10.8	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<6.5	-	<1.0	-	-	<10.8	**1.3**	<1.0	-
	7/17/2012	Primary	<25.0	<1.0	-	-	<33.3	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<20.0	-	<1.0	-	-	<33.3	**2.2**	<1.0	-
	5/30/2013	Primary	<25.0	<1.0	-	-	<33.3	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<20.0	-	<1.0	-	-	<33.3	**2.8**	<1.0	-
MW-02	1/11/1996	Primary	<50	<5	-	-	<10	-	<5	66	<5	<5	-	<5	<5	4	-	<10	-	<5	-	-	<10	<5	<5	<5
	1/11/1996	Duplicate	<50	<5	-	-	<10	2	<5	40	<5	<5	-	<5	<5	-	-	<10	-	<5	-	-	<10	<5	<5	<5
	5/16/1996	Primary	-	-	-	-	<10	73	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	<10	-	-	-
	6/10/1997	Primary	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	**18**	-	-	-	-	<10	-	-	-
	12/17/1997	Primary	<5	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	7/02/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<10	-	-	<10	<1	<1	-
	12/03/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	6/30/1999	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	**2**	<1	<1
	3/29/2000	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	**2**	<1	<1
	6/18/2009	Primary	<25.0	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	4.1	<1.0	-	-	-	-	<1.0	-	-	-	**47.3**	**2.9**	-
	6/22/2011	Primary	<25.0	<1.0	-	-	<10.1	-	<1.0	-	<1.0	<1.0	-	2.1	<1.0	-	-	<6.1	-	<1.0	-	-	<10.0	**35.1**	1.7	-
	7/17/2012	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	1.6	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**29.3**	1.4	-
	5/30/2013	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**23.4**	<1.0	-
	7/03/2014	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.0	-	-	-	-	-	-	-	-	-
	8/04/2014	Primary	<25.0	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	-	-	<1.0	-	-	-	**22.6**	<1.0	-
	12/07/2015	Primary	<25.0	<5.0	-	-	-	-	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	-	-	<5.0	-	-	<10.0	**12.6**	<5.0	<5.0

APPENDIX E
Historical Groundwater Analytical Data
Former Varco-Prudent Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea US of NC Project No. E040957841

ANALYTE DETECTED			Acetone	Benzene	2,6-Di-tert-Butyl-p-benzoquinone	Benzothiazole	Di-n-butylphthalate	Caprolactam	Chloroform	Cyclohexanol	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-dichloroethene	Diethylene Glycol	1,4-Dioxane	Bis(2-ethylhexyl)phthalate (BEHP)	2,6-Di-tert-butyl-4-methyl phenol	Methyl tert-butyl ether	Myristic acid	Palmitic acid	Phenol	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene
2L Groundwater Standards (Pre-January 2010)			**700**	**1**	**NE**	**NE**	**700**	**3500**	**70**	**NE**	**70**	**7**	**NE**	**70**	**100**	**NE**	**NE**	**2.5**	**NE**	**200**	**NE**	**NE**	**300**	**0.7**	**2.8**	**350**
2L Groundwater Standards (Effective April 1, 2013)			**6000**	**1**	**NE**	**NE**	**700**	**4000**	**70**	**NE**	**6**	**350**	**NE**	**70**	**100**	**NE**	**3**	**3**	**NE**	**20**	**NE**	**NE**	**30**	**0.7**	**3**	**400**
SITE ID	**DATE**	**Sample Type**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
MW-03	1/11/1996	Primary	<50	<5	-	-	<10	-	<5	-	<5	<5	-	<5	<5	-	-	**58**	-	<5	-	-	<10	<5	<5	<5
	5/16/1996	Primary	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	<10	-	-	-
	6/10/1997	Primary	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	**32**	-	-	-	-	<10	-	-	-
	12/17/1997	Primary	<5	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	12/17/1997	Duplicate	<5	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	7/01/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<10	-	-	<10	**2**	<1	-
	12/02/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	**3**	<1	<1
	7/01/1999	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	**2**	<1	<1
	3/29/2000	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	**2**	<1	<1
	6/18/2009	Primary	<25	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	3.0	<1.0	-	-	-	-	<1.0	-	-	-	**17.8**	1.3	-
	6/22/2011	Primary	<25	<1.0	-	-	<10.2	-	<1.0	-	<1.0	<1.0	-	5.4	<1.0	-	-	<6.1	-	<1.0	-	-	<10.2	**30.3**	1.9	-
	7/17/2012	Primary	<25	<1.0	-	-	<33.3	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<20.0	-	<1.0	-	-	<33.3	**3.2**	<1.0	-
	5/30/2013	Primary	<25	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<20.0	-	<1.0	-	-	<33.3	**2.7**	<1.0	-
	7/02/2014	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.0	-	-	-	-	-	-	-	-	-
	8/04/2014	Primary	<25	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	-	-	<1.0	-	-	-	**6.5**	<1.0	-
	12/07/2015	Primary	<25.0	<5.0	-	-	-	-	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	-	-	<5.0	-	-	<10.0	**4.4 J**	<5.0	<5.0
MW-04	1/11/1996	Primary	<50	<5	-	-	<10	-	<5	25	<5	<5	-	<5	<5	-	-	<10	-	<5	-	-	<10	<5	<5	<5
	5/16/1996	Primary	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	<10	-	-	-
	6/10/1997	Primary	-	-	-	-	<100	-	-	-	-	-	-	-	-	-	-	**450**	-	-	-	-	<100	-	-	-
	12/17/1997	Primary	<5	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	7/02/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<10	-	-	<10	<1	<1	-
	12/02/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	7/01/1999	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	3/29/2000	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
MW-05	6/29/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<10	-	-	<10	<1	<1	-
	6/29/1998	Duplicate	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<10	-	-	<10	<1	<1	-
	12/02/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	12/02/1998	Duplicate	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	6/30/1999	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	3/28/2000	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	8/21/2002	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	2/25/2003	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	5/15/2003	Primary	-	<5.0	-	-	<10.0	-	<5.0	-	<5	<5	-	<5.0	<5.0	-	-	<10.0	-	<5.0	-	-	<10.0	<5.0	<5.0	<5.0
	8/18/2003	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<10.0	-	<1.0	-	-	<10.0	<1.0	<1.0	<1.0
	11/21/2003	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<10.0	-	<1.0	-	-	<10.0	<1.0	<1.0	<1.0
	7/09/2004	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<10.0	-	<1.0	-	-	<10.0	<1.0	<1.0	<1.0
	6/17/2005	Primary	-	<0.31	-	-	<2.4	-	<0.29	-	<0.42	<0.39	-	<0.33	<0.44	-	-	<2.3	-	<0.22	-	-	<1.5	<0.16	<0.26	<0.15
	6/16/2006	Primary	40.	**2.7**	-	-	<12	-	<0.29	-	<0.42	<0.39	<0.5	<0.33	<0.44	-	-	<12	-	<0.22	-	-	<8.1	<0.16	<0.26	1.2
	6/25/2007	Primary	<25.	<1.0	-	-	<10.	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<10.	-	<1.0	-	-	<10.	<1.0	<1.0	<1.0
	6/25/2008	Primary	<25.0	<1.0	-	-	<10.6	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<10.6	-	<1.0	-	-	<10.6	<1.0	<1.0	<1.0
	6/17/2009	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<10.0	-	<1.0	-	-	<10.0	<1.0	<1.0	-
	7/06/2010	Primary	<25.0	<1.0	-	-	<10.4	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<6.3	-	<1.0	-	-	<1.04	<1.0	<1.0	-
	6/22/2011	Primary	<25.0	<1.0	-	-	<10.3	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<6.2	-	<1.0	-	-	<10.3	<1.0	<1.0	-
	7/17/2012	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	<1.0	<1.0	-
	5/29/2013	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	<1.0	<1.0	-
	7/03/2014	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.0	-	-	-	-	-	-	-	-	-
	8/04/2014	Primary	<25.0	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	-	-	<1.0	-	-	-	<1.0	<1.0	-
	12/07/2015	Primary	<25.0	<5.0	-	-	-	-	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	-	-	<5.0	-	-	<10.0	<5.0	<5.0	<5.0

APPENDIX E
Historical Groundwater Analytical Data
Former Varco-Prudent Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea US of NC Project No. E040957841

ANALYTE DETECTED			Acetone	Benzene	2,6-Di-tert-Butyl-p-benzoquinone	Benzothiazole	Di-n-butylphthalate	Caprolactam	Chloroform	Cyclohexanol	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-dichloroethene	Diethylene Glycol	1,4-Dioxane	Bis(2-ethylhexyl)phthalate (BEHP)	2,6-Di-tert-butyl-4-methyl phenol	Methyl tert-butyl ether	Myristic acid	Palmitic acid	Phenol	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene
2L Groundwater Standards (Pre-January 2010)			**700**	**1**	**NE**	**NE**	**700**	**3500**	**70**	**NE**	**70**	**7**	**NE**	**70**	**100**	**NE**	**NE**	**2.5**	**NE**	**200**	**NE**	**NE**	**300**	**0.7**	**2.8**	**350**
2L Groundwater Standards (Effective April 1, 2013)			**6000**	**1**	**NE**	**NE**	**700**	**4000**	**70**	**NE**	**6**	**350**	**NE**	**70**	**100**	**NE**	**3**	**3**	**NE**	**20**	**NE**	**NE**	**30**	**0.7**	**3**	**400**
SITE ID	**DATE**	**Sample Type**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
MW-06	7/01/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<10	-	-	<10	<1	<1	-
	12/03/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	7/01/1999	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	**4**	<1	<1
	3/28/2000	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	**2**	<1	<1
	6/17/2009	Primary	<25.0	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	-	-	<1.0	-	-	-	**15.7**	<1.0	-
	7/06/2010	Primary	<25.0	<1.0	-	-	<10.8	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<6.5	-	<1.0	-	-	<10.8	**14.2**	<1.0	-
	6/22/2011	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	1.3	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**22.7**	1.3	-
	7/17/2012	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**19.2**	<1.0	-
	5/30/2013	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**4.2**	<1.0	-
	7/02/2014	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.0	-	-	-	-	-	-	-	-	-
	8/04/2014	Primary	<25.0	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	-	-	-	<1.0	-	-	-	**3.3**	<1.0	-
	12/07/2015	Primary	<25.0	<5.0	-	-	-	-	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	-	-	-	-	<5.0	-	-	<10.0	**3.4 J**	<5.0	<5.0
MW-07	6/30/1998	Primary	<120	<5	-	-	<10	-	<5	-	<5	<5	-	**73**	<5	-	-	<10	-	<50	-	-	<10	**170**	**55**	-
	6/30/1998	Duplicate	<120	<5	52	-	<10	-	<5	-	<5	<5	-	**76**	<5	-	-	<10	-	<50	-	-	<10	**170**	**55**	-
	12/03/1998	Primary	<250	<10	-	-	<10	-	<10	-	<10	<10	-	49	<10	-	-	<10	-	<10	-	-	<10	**110**	**30**	<10
	7/01/1999	Primary	<1000	<40	-	-	<10	-	<40	-	<40	<40	-	**230**	<40	-	-	<10	-	<40	-	-	<10	**500**	**99**	<40
	3/28/2000	Primary	<500	<20	-	-	-	-	<20	-	<20	<20	-	**160**	<20	-	-	-	-	<20	-	-	-	**340**	**95**	<20
	3/28/2000	Duplicate	<630	<25	-	-	-	-	<25	-	<25	<25	-	**150**	<25	-	-	-	-	<25	-	-	-	**270**	**70**	<25
	3/28/2000	Primary	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	<10	-	-	-
	3/28/2000	Duplicate	-	-	-	-	<10	-	-	-	-	-	-	-	-	-	-	<10	-	-	-	-	<10	-	-	-
	8/21/2002	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	**190**	3	-	-	<10	-	<1	-	-	<10	**600**	**78**	<1
	2/25/2003	Primary	<500	<20	-	-	<10	-	<20	-	<20	<20	-	**210**	<20	-	-	<10	-	<20	-	-	<10	**620**	**81**	<20
	2/25/2003	Duplicate	<500	<20	-	-	<10	-	<20	-	<20	<20	-	**240**	<20	-	-	<10	-	<20	-	-	<10	**670**	**87**	<20
	2/25/2003	Duplicate	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	2/25/2003	Duplicate	<25	<1	-	-	-	-	<1	-	<1	<1	-	**240**	<1	-	-	-	-	<1	-	-	-	**670**	**87**	<1
	5/15/2003	Primary	-	<5.0	-	-	74.0	-	<5.0	-	<5.0	<5.0	-	**120**	<5.0	-	-	<11.0	-	<5.0	-	-	<11.0	**480**	**40.0**	<5.0
	5/15/2003	Duplicate	-	<5.0	-	-	42.0	-	<5.0	-	<5.0	<5.0	-	**120**	<5.0	-	-	<10.0	-	1.2	-	-	<10.0	**450**	**43**	<5.0
	5/15/2003	Duplicate	-	<5.0	-	-	-	-	<5.0	-	<5.0	<5.0	-	**120**	<5.0	-	-	-	-	<5.0	-	-	-	**450.0**	**43.0**	<5.0
	8/18/2003	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	65.0	<1.0	-	-	<10.0	-	<1.0	-	-	<10.0	**290.0**	**32.0**	<1.0
	8/18/2003	Duplicate	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	**150.**	<1.0	-	-	<10.0	-	2.1	-	-	<10.0	**310**	**71.0**	<1.0
	11/21/2003	Primary	-	**1.7**	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	38	<1.0	-	-	<10.0	-	1.8	-	-	<10.0	**230**	**25**	<1.0
	7/09/2004	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	34	<1.0	-	-	<10.0	-	2.2	-	-	<10.0	**170**	**25**	<1.0
	6/17/2005	Primary	-	<0.31	-	-	<2.4	-	<0.29	-	<0.42	<0.39	-	41.	<0.44	-	-	<2.3	-	1.8	-	-	<1.5	**190**	**22**	<0.15
	6/16/2006	Primary	<3.7	<0.62	-	-	<2.5	-	<0.58	-	<0.84	<0.78	48.0	48.	<0.88	-		<2.4	-	<0.44	-	-	<1.6	**280**	**21**	<0.3
	6/25/2007	Primary	<50.	<2.0	-	-	<12.	-	<2.0	-	<2.0	<2.0	-	56.	<2.0	-	-	<12.	-	<2.0	-	-	<12.	**380**	**26**	<2.0
	6/25/2008	Primary	<50.0	<2.0	-	-	<10.4	-	<2.0	-	<2.0	<2.0	-	**104**	<2.0	-	-	<10.4	-	<2.0	-	-	<10.4	**381**	**41.3**	<2.0
	6/18/2009	Primary	<25.0	<1.0	-	-	<11.8	-	<1.0	-	<1.0	<1.0	-	**108**	1.0	-	-	<11.8	-	<1.0	-	-	<11.8	**253**	**30.7**	-
	9/21/2009	Primary	-	-	-	-	-	-	-	-	-	-	-	61.9	-	-	-	-	-	-	-	-	-	**346**	**20.4**	-
	12/30/2009	Primary	-	-	-	-	-	-	-	-	-	-	-	**80**	-	-	-	-	-	-	-	-	-	**203**	**18.1**	-
	3/23/2010	Primary	-	-	-	-	-	-	-	-	-	-	-	**83.4**	-	-	-	-	-	-	-	-	-	**322**	**24.2**	-
	7/06/2010	Primary	<50.0	<2.0	-	-	<10.4	-	<2.0	-	<2.0	<2.0	-	**71.9**	<2.0	-	-	<6.3	-	<2.0	-	-	<10.4	**189**	**14.3**	-
	9/16/2010	Primary	-	-	-	-	-	-	-	-	-	-	-	29.1	-	-	-	-	-	-	-	-	-	**191**	**9.4**	-
	6/22/2011	Primary	<25.0	<1.0	-	-	<10.4	-	<1.0	-	<1.0	<1.0	-	**125**	<1.0	-	-	<6.3	-	<1.0	-	-	<10.4	**79.2**	**28.5**	-
	7/17/2012	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	54.3	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**197**	**12.1**	-
	5/29/2013	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	68.7	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**165**	**16.2**	-
	5/29/2013	Duplicate	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	67.3	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**164**	**15.5**	-
	7/02/2014	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.0	-	-	-	-	-	-	-	-	-
	8/04/2014	Primary	<25.0	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	43.1	<1.0	-	-	-	-	<1.0	-	-	-	**198**	**21.7**	-
	12/07/2015	Primary	<25.0	<5.0	-	-	-	-	<5.0	-	<5.0	<5.0	41.3	41.3	<5.0	-	-	-	-	<5.0	-	-	<10.0	**177**	**11.5**	<5.0

APPENDIX E
Historical Groundwater Analytical Data
Former Varco-Prudent Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea US of NC Project No. E040957841

ANALYTE DETECTED			Acetone	Benzene	2,6-Di-tert-Butyl-p-benzoquinone	Benzothiazole	Di-n-butylphthalate	Caprolactam	Chloroform	Cyclohexanol	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-dichloroethene	Diethylene Glycol	1,4-Dioxane	Bis(2-ethylhexyl)phthalate (BEHP)	2,6-Di-tert-butyl-4-methyl phenol	Methyl tert-butyl ether	Myristic acid	Palmitic acid	Phenol	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene
2L Groundwater Standards (Pre-January 2010)			**700**	**1**	**NE**	**NE**	**700**	**3500**	**70**	**NE**	**70**	**7**	**NE**	**70**	**100**	**NE**	**NE**	**2.5**	**NE**	**200**	**NE**	**NE**	**300**	**0.7**	**2.8**	**350**
2L Groundwater Standards (Effective April 1, 2013)			**6000**	**1**	**NE**	**NE**	**700**	**4000**	**70**	**NE**	**6**	**350**	**NE**	**70**	**100**	**NE**	**3**	**3**	**NE**	**20**	**NE**	**NE**	**30**	**0.7**	**3**	**400**
SITE ID	**DATE**	**Sample Type**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
MW-08	7/06/1998	Primary	<25	<1	-	-	-	-	<1	-	<1	<1	-	7	<1	-	-	-	-	11	-	-	-	**40**	**5.8**	-
	7/06/1998	Duplicate	<25	<1	-	-	-	-	<1	-	<1	<1	-	7.4	<1	-	-	-	-	11	-	-	-	**41**	**6.1**	-
	12/03/1998	Primary	<200	<8	-	-	<10	-	<8	-	<8	<8	-	13	<8	-	-	<10	-	<8	-	-	<10	**65**	**9**	<8
	12/03/1998	Duplicate	<200	<8	-	-	<10	-	<8	-	<8	<8	-	14	<8	-	-	<10	-	<8	-	-	<10	**71**	**8**	<8
	7/01/1999	Primary	<250	<10	-	-	<10	-	<10	-	<10	<10	-	27	<10	-	-	<10	-	<10	-	-	<10	**94**	**13**	<10
	3/28/2000	Primary	<250	<10	-	-	<10	-	<10	-	<10	<10	-	35	<10	-	-	<10	-	<10	-	-	<10	**97**	**13**	<10
	8/21/2002	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	45	<1	-	-	<10	-	4	-	-	<10	**110**	**28**	<1
	2/25/2003	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	3	<1	-	-	<10	-	<1	-	-	<10	**9**	1	<1
	5/15/2003	Primary	-	<5.0	-	-	<10.0	-	<5.0	-	<5.0	<5.0	-	31.0	<5.0	-	-	<10.0	-	<5.0	-	-	<10.0	**86.0**	**12**	<5.0
	8/18/2003	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	29.0	<1.0	-	-	<10.0	-	2.2	-	-	<10.0	**120.0**	**12**	<1.0
	11/21/2003	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	14	<1.0	-	-	<10.0	-	1.2	-	-	<10.0	**66**	**6.5**	<1.0
	11/21/2003	Duplicate	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	15	<1.0	-	-	<10.0	-	1.1	-	-	<10.0	**63**	**6.2**	<1.0
	7/09/2004	Primary	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	16	<1.0	-	-	<10.0	-	2.2	-	-	<10.0	**81**	**8.9**	<1.0
	7/09/2004	Duplicate	-	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	16	<1.0	-	-	<10.0	-	<1.0	-	-	<10.0	**82**	**8.6**	<1.0
	6/17/2005	Primary	-	<0.31	-	-	<2.4	-	<0.29	-	<0.42	<0.39	-	19.	<0.44	-	-	<2.3	-	1.3	-	-	<1.5	**100**	**9.4**	<0.15
	6/16/2006	Primary	<1.8	<0.31	-	-	<2.4	-	<0.29	-	<0.42	<0.39	21.	21.	<0.44	-	-	<2.3	-	<0.22	-	-	<1.6	**140**	**9.2**	<0.15
	6/16/2006	Duplicate	<1.8	<0.31	-	-	<2.4	-	<0.29	-	<0.42	<0.39	22.	22.	<0.44	-	-	<2.3	-	<0.22	-	-	<1.6	**140**	**9.6**	<0.15
	6/25/2007	Primary	<25.	<1.0	-	-	<12.	-	<1.0	-	<1.0	<1.0	-	20.	<1.0	-	-	<12.	-	<1.0	-	-	<12.	**100**	**7.4**	<1.0
	6/25/2007	Duplicate	<25.	<1.0	-	-	<12.	-	<1.0	-	<1.0	<1.0	-	21.	<1.0	-	-	<12.	-	<1.0	-	-	<12.	**110**	**7.7**	<1.0
	6/25/2008	Primary	<25.0	<1.0	-	-	<12.3	-	<1.0	-	<1.0	<1.0	-	23.1	<1.0	-	-	<12.3	-	<1.0	-	-	<12.3	**114**	**9.9**	<1.0
	6/25/2008	Duplicate	<25.0	<1.0	-	-	<12.0	-	<1.0	-	<1.0	<1.0	-	27.4	<1.0	-	-	<12.0	-	<1.0	-	-	<12.0	**132**	**11.0**	<1.0
	6/18/2009	Primary	<25.0	<1.0	-	-	<10.4	-	<1.0	-	<1.0	<1.0	-	22.6	<1.0	-	-	<10.4	-	<1.0	-	-	<10.4	**108**	**7.8**	-
	6/18/2009	Duplicate	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	22.2	<1.0	-	-	<10.0	-	<1.0	-	-	<10.0	**109**	**7.7**	-
	7/06/2010	Primary	<25.0	<1.0	-	-	<10.3	-	<1.0	-	<1.0	<1.0	-	14.0	<1.0	-	-	<6.2	-	<1.0	-	-	<10.3	**82.0**	**5.2**	-
	7/06/2010	Duplicate	<25.0	<1.0	-	-	<10.2	-	<1.0	-	<1.0	<1.0	-	13.7	<1.0	-	-	<6.1	-	<1.0	-	-	<10.2	**81.0**	**5.4**	-
	6/22/2011	Primary	<25.0	<1.0	-	-	<10.1	-	<1.0	-	<1.0	<1.0	-	13.6	<1.0	-	-	<6.1	-	<1.0	-	-	<10.1	**92.9**	**4.6**	-
	6/22/2011	Duplicate	<25.0	<1.0	-	-	<10.2	-	<1.0	-	<1.0	<1.0	-	22.0	<1.0	-	-	<6.1	-	<1.0	-	-	<10.2	**126**	**7.2**	-
	7/17/2012	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	5.0	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**44.6**	2.1	-
	7/17/2012	Duplicate	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	5.0	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**46.2**	2.2	-
	5/30/2013	Primary	<25.0	<1.0	-	-	<10.0	-	<1.0	-	<1.0	<1.0	-	6.8	<1.0	-	-	<6.0	-	<1.0	-	-	<10.0	**51.5**	**3.2**	-
	7/03/2014	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.0	-	-	-	-	-	-	-	-	-
	8/04/2014	Primary	<25.0	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	3.1	<1.0	-	-	-	-	<1.0	-	-	-	**44.5**	1.7	-
	8/04/2014	Duplicate	<25.0	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	2.9	<1.0	-	-	-	-	<1.0	-	-	-	**41.7**	1.5	-
	12/07/2015	Primary	<25.0	<5.0	-	-	-	-	<5.0	-	<5.0	<5.0	9.3	9.3	<5.0	-	-	-	-	<5.0	-	-	<10.0	**73.8**	2.8 J	<5.0
	12/07/2015	Duplicate	<25.0	<5.0	-	-	-	-	<5.0	-	<5.0	<5.0	9.7	9.7	<5.0	-	-	-	-	<5.0	-	-	<10.0	**77.0**	**3.4 J**	<5.0
MW-09	7/07/1998	Primary	<25	<1	-	10	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<10	-	-	<10	<1	<1	-
	12/02/1998	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	7/01/1999	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	3/28/2000	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1
	3/28/2000	Primary	<25	<1	-	-	<10	-	<1	-	<1	<1	-	<1	<1	-	-	<10	-	<1	-	-	<10	<1	<1	<1

APPENDIX E
Historical Groundwater Analytical Data
Former Varco-Prudent Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea US of NC Project No. E040957841

ANALYTE DETECTED			Acetone	Benzene	2,6-Di-tert-Butyl-p-benzoquinone	Benzothiazole	Di-n-butylphthalate	Caprolactam	Chloroform	Cyclohexanol	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-dichloroethene	Diethylene Glycol	1,4-Dioxane	Bis(2-ethylhexyl)phthalate (BEHP)	2,6-Di-tert-butyl-4-methyl phenol	Methyl tert-butyl ether	Myristic acid	Palmitic acid	Phenol	Tetrachloroethene	Trichloroethene	1,2,4-Trimethylbenzene
2L Groundwater Standards (Pre-January 2010)			**700**	**1**	**NE**	**NE**	**700**	**3500**	**70**	**NE**	**70**	**7**	**NE**	**70**	**100**	**NE**	**NE**	**2.5**	**NE**	**200**	**NE**	**NE**	**300**	**0.7**	**2.8**	**350**
2L Groundwater Standards (Effective April 1, 2013)			**6000**	**1**	**NE**	**NE**	**700**	**4000**	**70**	**NE**	**6**	**350**	**NE**	**70**	**100**	**NE**	**3**	**3**	**NE**	**20**	**NE**	**NE**	**30**	**0.7**	**3**	**400**
SITE ID	**DATE**	**Sample Type**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
MW-10	3/29/2000	Primary	<100	<4	-	-	19	-	<4	-	<4	<4	-	35	<4	-	-	<10	-	<4	-	-	<10	**38**	**9**	<4
	10/05/2000	Primary	<25	<1	-	-	51	-	<1	-	<1	<1	-	30	<1	-	-	<10	-	<1	-	-	<10	**22**	**9**	<1
	2/25/2003	Primary	-	-	-	-	-	-	-	-	-	<4	-	34	<4	-	-	-	-	-	-	-	-	**87**	**14**	-
	5/15/2003	Primary	-	<5.0	-	-	-	-	<5.0	-	<5.0	-	-	20.0	<5.0	-	-	-	-	-	-	-	-	**33.0**	**5.8**	<5.0
	8/18/2003	Primary	-	<1.0	-	-	-	-	<1.0	-	<1.0	-	-	22.0	<1.0	-	-	-	-	-	-	-	-	**67.0**	**8.0**	<1.0
	11/21/2003	Primary	-	-	-	-	-	-	-	-	-	<1.0	-	20	<1.0	-	-	-	-	-	-	-	-	**61**	**7.3**	-
	7/09/2004	Primary	-	-	-	-	-	-	-	-	-	<1.0	-	9.1	<1.0	-	-	-	-	-	-	-	-	**40**	**3.9**	-
	6/17/2005	Primary	-	-	-	-	-	-	-	-	-	<0.39	-	21.	<0.44	-	-	-	-	-	-	-	-	**56**	**5.9**	-
	6/16/2006	Primary	-	-	-	-	-	-	-	-	-	<0.39	-	17.	<0.44	-	-	-	-	-	-	-	-	**55**	**4.9**	-
	6/25/2007	Primary	-	-	-	-	-	-	-	-	-	<1.0	-	18.	<1.0	-	-	-	-	-	-	-	-	**49**	**4.5**	-
	6/25/2008	Primary	-	-	-	-	-	-	-	-	-	<1.0	-	5.9	<1.0	-	-	-	-	-	-	-	-	**24.7**	2.0	-
	6/18/2009	Primary	-	-	-	-	-	-	-	-	-	<1.0	-	10.6	<1.0	-	-	-	-	-	-	-	-	**36.8**	**2.9**	-
	7/06/2010	Primary	-	-	-	-	-	-	-	-	-	<1.0	-	2.2	<1.0	-	-	-	-	-	-	-	-	**11.4**	**2.2**	-
	6/22/2011	Primary	-	-	-	-	-	-	-	-	-	<1.0	-	3.5	<1.0	-	-	-	-	-	-	-	-	**13.2**	<1.0	-
	7/17/2012	Primary	-	-	-	-	-	-	-	-	-	<1.0	-	14.8	<1.0	-	-	-	-	-	-	-	-	**48.5**	**3.2**	-
	5/30/2013	Primary	-	-	-	-	-	-	-	-	-	<1.0	-	6.7	<1.0	-	-	-	-	-	-	-	-	**38.0**	2.4	-
	7/03/2014	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<2.0	-	-	-	-	-	-	-	-	-
	8/04/2014	Primary	<25.0	<1.0	-	-	-	-	<1.0	-	<1.0	<1.0	-	8.5	<1.0	-	-	-	-	<1.0	-	-	-	**38.0**	2.0	-
	12/7/2015	Primary	-	-	-	-	-	-	-	-	-	<5.0	-	9.0	<5.0	-	-	-	-	-	-	-	-	**45.5**	2.2 J	-

Notes

µg/L	Micrograms Per Liter
2.2	Bolded and shaded values exceed the 2L Groundwater Standarc
<	Less Than Laboratory Reporting Limit
-	Not analyzed for specific constituent
NE	2L Standard not established
J	Estimated concentration above the adjusted MDL and below the adjusted Reporting Limit (RL

Appendix F

Surface Water Sampling Records (December 2015)

SURFACE WATER SAMPLING FORM

PROJECT/CLIENT: VARCO-PRUDIN

SITE LOCATION: KERNERSVILLE, NC

DATE: 12/7/15 TIME: 1122

SAMPLE NO.: SW00100

WEATHER CONDITIONS: 40°F, SUNNY

SAMPLED BY: M. ECKMAIR

SAMPLE LOCATION (WATERBODY NAME): KERNERSVILLE LAKE TRIBUTARY

SAMPLE DEPTH: <0.5 FEET

SURFACE WATER FLOW RATE: MEDIUM

SAMPLE SITE DESCRIPTION: —

SAMPLE COLLECTION METHOD: Allow jars to fill positioning open mouth of bottle upstream

COLLECTION TIME: 1125

SAMPLE INFORMATION:

pH: 7.29 COND.: 0.112 TEMP(C°): 11.73 D.O. 7.27

TURB: 38.0

ANALYSIS:	CONTAINERS:	SAMPLE PREP/PRESERVATION:
8260 LIMITED	3 - 40 mL VIALS	HCl

PCE; TCE; 1,1-DCE; cis 1,2-DCE; trans 1,2-DCE; VINYL CHLORIDE

* SW-DUP LOCATION *

CHAIN OF CUSTODY FORM: —

LABORATORY: PACE

SHIPPED VIA: DROP-OFF

SENT ON: 12/8/15

CHAIN OF CUSTODY SIGNED BY: M. ECKMAIR

SURFACE WATER SAMPLING FORM

PROJECT/CLIENT: VARCO PRUDEN

SITE LOCATION: SW00200

DATE: 12/7/15 TIME: 1147

SAMPLE NO.: SW00200

WEATHER CONDITIONS: 42°F, SUNNY

SAMPLED BY: M. ECKMAIR

SAMPLE LOCATION (WATERBODY NAME): KERNERSVILLE LAKE TRIBUTARY

SAMPLE DEPTH: <0.5'

SURFACE WATER FLOW RATE: LOW

SAMPLE SITE DESCRIPTION: —

SAMPLE COLLECTION METHOD: Allow jars to fill positioning open mouth of bottle upstream

COLLECTION TIME: 1150

SAMPLE INFORMATION:

pH: 6.59 COND.: 0.109 TEMP(C°): 10.37 D.O. 4.79

TURB: 9.68

ANALYSIS:	CONTAINERS:	SAMPLE PREP/PRESERVATION:
8260 LIMITED	3 x 40 mL	HCl

PCE; TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; VINYL CHLORIDE & ~~[illegible]~~

CHAIN OF CUSTODY FORM:

LABORATORY: PACE

SHIPPED VIA: DROP-OFF

SENT ON: 12/8/15

CHAIN OF CUSTODY SIGNED BY: M. ECKMAIR

SURFACE WATER SAMPLING FORM

PROJECT/CLIENT: VARCO PRUDEN

SITE LOCATION: ~~SW00300~~ KERNERSVILLE, NC

DATE: 12/7/15 TIME: 1132

SAMPLE NO.: SW00300

WEATHER CONDITIONS: 42°F, SUNNY

SAMPLED BY: M. ECKMAIR

SAMPLE LOCATION (WATERBODY NAME): KERNERSVILLE LAKE TRIBUTARY

SAMPLE DEPTH: <0.50'

SURFACE WATER FLOW RATE: MED.

SAMPLE SITE DESCRIPTION: —

SAMPLE COLLECTION METHOD: Allow jars to fill positioning open mouth of bottle upstream

COLLECTION TIME: 1135

SAMPLE INFORMATION:

pH: 6.78 COND.: 0.087 TEMP(C°): 10.06 D.O. 8.46

TURB: 4.32

ANALYSIS:	CONTAINERS:	SAMPLE PREP/PRESERVATION:
8260 LIMITED	3x 40 mL	HCl

PCE; TCE; 1,1-DCE; cis 1,2-DCE; trans 1,2-DCE; VINYL CHLORIDE

CHAIN OF CUSTODY FORM: —

LABORATORY: PACE

SHIPPED VIA: DROP-OFF

SENT ON: 12/8/15

CHAIN OF CUSTODY SIGNED BY: M. ECKMAIR

SURFACE WATER SAMPLING FORM

PROJECT/CLIENT: VARCO - PRUDEN

SITE LOCATION: KERNERSVILLE, NC

DATE: 12/8/15 TIME: 1142

SAMPLE NO.: SW00400

WEATHER CONDITIONS: 50°F, SUNNY

SAMPLED BY: M ECKMAIR

SAMPLE LOCATION (WATERBODY NAME): KERNERSVILLE LAKE TRIBUTARY

SAMPLE DEPTH: <0.5'

SURFACE WATER FLOW RATE: LOW

SAMPLE SITE DESCRIPTION: —

SAMPLE COLLECTION METHOD: Allow jars to fill positioning open mouth of bottle upstream

COLLECTION TIME: 1145

SAMPLE INFORMATION:

pH: 7.36 COND.: 0.111 TEMP(C°): 10.75 D.O. 7.03

TURB: 45.3 ORP: 7.32

ANALYSIS:	CONTAINERS:	SAMPLE PREP/PRESERVATION:
8260 LIMITED	3x40mL	HCl

PCE; TCE; 1,1-DCE; cis 1,2-DCE; trans 1,2-DCE; VINYL CHLORIDE

CHAIN OF CUSTODY FORM: —

LABORATORY: PACE

SHIPPED VIA: DROP-OFF

SENT ON: 12/8/15

CHAIN OF CUSTODY SIGNED BY: M. ECKMAIR

Appendix G

Historical Surface Water Analytical Data

APPENDIX G
Historical Surfacewater Analytical Data
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841

ANALYTE DETECTED			Carbon Tetrachloride	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene
WS-IV Surface Water Standards			0.254	5.6	60	0.7	2.5
Site ID	Date	Sample Type	µg/L	µg/L	µg/L	µg/L	µg/L
SW00100	10/05/2000	Primary	**2**	17	5	**3**	1
	2/25/2003	Primary	-	-	4	**9**	**10**
	5/15/2003	Primary	<5.0	<5.0	4.4	**5.3**	<5.0
	8/18/2003	Primary	<1.0	<1.0	3.0	**6.7**	<1.0
	11/21/2003	Primary	-	-	2.1	**5.7**	1.1
	11/21/2003	Duplicate	-	-	2.3	**5.5**	1.1
	7/09/2004	Primary	-	-	<1.0	**4.9**	<1.0
	6/17/2005	Primary	-	-	1.8	**5.9**	<0.26
	6/16/2006	Primary	-	-	1.5	**4.7**	<0.26
	6/25/2007	Primary	-	-	2.1	**5.9**	<1.0
	6/25/2008	Primary	-	-	1.5	**7.0**	<1.0
	6/18/2009	Primary	-	-	1.4	**6.5**	<1.0
	6/18/2009	Duplicate	-	-	1.5	**6.3**	<1.0
	7/06/2010	Primary	-	-	1.4	**6.4**	<1.0
	7/06/2010	Duplicate	-	-	1.4	**6.0**	<1.0
	6/21/2011	Primary	-	-	<1.0	**3.1**	<1.0
	7/16/2012	Primary	-	-	<1.0	**2.9**	<1.0
	5/30/2013	Primary	-	-	1.2	**5.8**	<1.0
	5/30/2013	Duplicate	-	-	1.2	**5.9**	<1.0
	7/02/2014	Primary	-	-	1.3	**3.4**	<1.0
	7/02/2014	Duplicate	-	-	1.4	**3.3**	<1.0
	12/07/2015	Primary	-	-	<5.0	**4.3 J**	<5.0
	12/07/2015	Duplicate	-	-	<5.0	**4.1 J**	<5.0
SW00200	10/05/2000	Primary	<1	11	4	**4**	1
	2/25/2003	Primary	-	-	3	**7**	1
	2/25/2003	Duplicate	-	-	3	**7**	1
	2/25/2003	Duplicate	-	-	3	**7**	1
	5/15/2003	Primary	<5.0	<5.0	3.3	**4.0**	<5.0
	5/15/2003	Duplicate	<5.0	<5.0	3.2	**3.7**	<5.0
	8/18/2003	Primary	<1.0	<1.0	2.4	**4.6**	<1.0
	8/18/2003	Duplicate	<1.0	<1.0	2.6	**4.9**	<1.0
	11/21/2003	Primary	-	-	1.6	**3.8**	<1.0
	7/09/2004	Primary	-	-	<1.0	**2.2**	<1.0
	7/09/2004	Duplicate	-	-	<1.0	**2.1**	<1.0
	6/17/2005	Primary	-	-	1.3	**4.1**	<0.26
	6/16/2006	Primary	-	-	2.3	**7.4**	<0.26
	6/16/2006	Duplicate	-	-	1.4	**4.0**	<0.26
	6/25/2007	Primary	-	-	1.4	**3.8**	<1.0
	6/25/2007	Duplicate	-	-	1.5	**3.9**	<1.0
	6/25/2008	Primary	-	-	1.4	**4.9**	<1.0
	6/25/2008	Duplicate	-	-	1.4	**4.8**	<1.0
	6/18/2009	Primary	-	-	1.1	**4.7**	<1.0
	7/06/2010	Primary	-	-	<1.0	**3.5**	<1.0
	6/21/2011	Primary	-	-	1.6	**5.6**	<1.0
	6/21/2011	Duplicate	-	-	1.5	**5.6**	<1.0
	7/16/2012	Primary	-	-	1.3	**5.2**	<1.0
	7/16/2012	Duplicate	-	-	1.3	**5.4**	<1.0
	5/30/2013	Primary	-	-	<1.0	**4.1**	<1.0
	7/02/2014	Primary	-	-	1.1	**1.9**	<1.0
	12/07/2015	Primary	-	-	<5.0	**3.1 J**	<5.0

APPENDIX G
Historical Surfacewater Analytical Data
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea USA of NC Project No. E040957841

ANALYTE DETECTED			Carbon Tetrachloride	Chloroform	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene
WS-IV Surface Water Standards			**0.254**	**5.6**	**60**	**0.7**	**2.5**
Site ID	**Date**	**Sample Type**	**µg/L**	**µg/L**	**µg/L**	**µg/L**	**µg/L**
SW00300	10/05/2000	Primary	**24**	**97**	<5.0	<5.0	<5.0
	2/25/2003	Primary	-	-	<8	<8	<8
	5/15/2003	Primary	<5.0	<5.0	2.4	**1.8**	1.4
	8/18/2003	Primary	<1.0	<1.0	2.2	**2.7**	<1.0
	11/21/2003	Primary	-	-	1.9	**2.8**	1.4
	7/09/2004	Primary	-	-	<1.0	<1.0	<1.0
	6/17/2005	Primary	-	-	<0.33	<0.16	<0.26
	6/16/2006	Primary	-	-	2.9	**7.3**	<0.26
	6/25/2007	Primary	-	-	<1.0	**1.9**	<1.0
	6/25/2008	Primary	-	-	<1.0	**2.0**	<1.0
	6/18/2009	Primary	-	-	<1.0	**1.7**	<1.0
	7/06/2010	Primary	-	-	<1.0	**1.6**	<1.0
	6/21/2011	Primary	-	-	<1.0	**1.5**	<1.0
	7/16/2012	Primary	-	-	<1.0	<1.0	<1.0
	5/30/2013	Primary	-	-	<1.0	**1.9**	<1.0
	7/02/2014	Primary	-	-	<1.0	<1.0	<1.0
	12/07/2015	Primary	-	-	<5.0	<5.0	<5.0
SW00400	7/09/2004	Primary	-	-	<1.0	<1.0	<1.0
	6/17/2005	Primary	-	-	<0.33	<0.16	<0.26
	6/16/2006	Primary	-	-	2.5	**3.8**	<0.26
	6/25/2007	Primary	-	-	<1.0	<1.0	<1.0
	6/25/2008	Primary	-	-	<1.0	<1.0	<1.0
	6/18/2009	Primary	-	-	<1.0	<1.0	<1.0
	7/06/2010	Primary	-	-	<1.0	<1.0	<1.0
	6/21/2011	Primary	-	-	<1.0	<1.0	<1.0
	7/16/2012	Primary	-	-	<1.0	<1.0	<1.0
	5/30/2013	Primary	-	-	<1.0	<1.0	<1.0
	7/2/2014	Primary	-	-	<1.0	<1.0	<1.0
	12/8/2015	Primary	-	-	<5.0	<5.0	<5.0

Notes

µg/L	Micrograms Per Liter
2.5	Bolded and shaded values exceed WS-IV Surface Water Standard
<	Less Than Laboratory Reporting Limit
-	Not analyzed for chemical constituent
WS-IV Surface Water Standards	15A NCAC 02B .0216 FRESH SURFACE WATER QUALITY STANDARDS FOR WS-IV WATERS
J	Estimated concentration above the adjusted MDL and below the adjusted Reporting Limit (RL)

Appendix H

Historical Natural Attenuation Analytical Data

APPENDIX H
Historical Natural Attenuation Data
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
Kernersville, North Carolina
Antea US of NC Project No. E040957841

ANALYTE DETECTED			Dissolved Oxygen	pH	Oxygen Reduction Potential	Conductance	Temperature	Alkalinity (as CaC03)	Alkalinity Total (as CA03)	Chloride	Ferrous Iron	Total Iron	Methane	Nitrate (as N)	Nitrite (as N)	Sulfate	Sulfide
Site ID	**Date**	**Sample type**	**mg/L**	**SU**	**mV**	**mS/cm**	**°C**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
MW-01	12/16/1997	Primary	8.9					9.1	-	1.28	-	-	<70	1.20	-	<2.0	-
	7/01/1998	Primary	1					11	-	1.2	-	-	<47	-	-	<5	-
	12/02/1998	Primary	6.6					11.8	-	9.63	-	-	<0.2	1.02	-	<2	<0.01
	6/30/1999	Primary	-					22.8	-	8.80	-	<0.200	<0.2	1.32	-	<2.0	<0.01
	8/21/2002	Primary	5.1					-	-	-	-	<0.2	<7.2	0.9	-	0.56	-
	2/25/2003	Primary	7.1					-	-	-	-	0.0	<7.2	1.1	-	0.5	-
	5/15/2003	Primary	7.1					-	-	-	-	-	<41.0	0.90	-	1.3	-
	8/18/2003	Primary	7.1					-	-	-	-	1.7	<10.0	0.94	-	<5.0	-
	11/21/2003	Primary	7.9					20	-	1.8	-	1.8	-	0.91	<0.050	<5.0	0.092
	7/09/2004	Primary	5.4					11	-	<5.0	-	0.56	-	1.0	<0.10	<5.0	<0.050
	6/17/2005	Primary	7.7					6.6	-	<0.16	-	0.42	<10.0	1.2	<0.05	<0.18	<0.016
	6/16/2006	Primary	7.1					14	14.	<0.16	0	25.	<5	1.3	<0.05	<0.18	<0.016
	6/25/2007	Primary	2.1					18.	-	<5.0	0.	21	71.9	1.2	<0.10	<5.0	<0.050
	6/25/2008	Primary	8.1					14.2	-	<5.0	0	2.1	<10.0	0.96	<0.10	<5.0	<0.10
	6/18/2009	Primary	3.6	6.41	147	0.067	18.33	19.9	-	<5.0	0	8.17	<10.0	0.87	<0.10	<5.0	<0.10
	7/06/2010	Primary	4.53	5.76	230	0.057	19.51	20.1	-	<5.0	0	7.84	<10.0	1.5	<0.10	<5.0	<0.10
	7/17/2012	Primary	7.67	6.37	136	0.097	17.92	19.6	-	5.0	0	77.1	<6.6	1.2	0.089	<2.0	<0.10
	5/30/2013	Primary	4.83	3.48	454	0.153	20.04	20.3	-	2.3	<0.50	6.22	40.1	1.5	0.12	<2.0	<0.10
MW-02	12/17/1997	Primary	3.7					36.3	-	6.92	-	-	<70	0.937	-	<2.0	-
	7/02/1998	Primary	-					130	-	7	-	-	<47	-	-	<5	-
	12/03/1998	Primary	4.3					47.2	-	10.8	-	-	<0.2	0.8	-	7.17	<0.01
	6/22/2011	Primary	6.65	5.29	134	0.118	16.55	-	31.1	<5.0	0	1.24	<10.0	1.6	<0.10	<5.0	<0.10
	7/17/2012	Primary	6.48	5.54	209	0.137	16.36	25.2	-	5.6	0	2.4	<6.6	1.8	<0.020	<2.0	<0.10
	5/30/2013	Primary	5.33	4.84	379	0.087	16.71	36.8	-	3.6	<0.50	0.774	<6.6	0.75	0.0285	<2.0	<0.10
	7/03/2014	Primary	8.18	5.82	124.7	0.062	17.94	28.4		4.4	1.5	30.2	<6.6	0.30	0.12	<2.0	<0.10
	12/07/2015	Primary	6.53	5.67	195.9	0.076	17.17	-	-	-	<0.50	-	1.4	0.26	-	<1.0	-
MW-03	12/17/1997	Primary	9.0					26.7	-	5.74	-	-	<70	5.21	-	<2.0	-
	7/01/1998	Primary	-					56	-	5.1	-	-	<47	-	-	<5	-
	12/02/1998	Primary	6.0					40.5	-	10.1	-	-	<0.2	0.87	-	<2	<0.01
	7/01/1999	Primary	4.6					19.5	-	18.6	-	<0.200	<0.2	1.06	-	<2.0	<0.01
	6/22/2011	Primary	7.11	5.19	136	.0104	14.93	-	29.0	<5.0	0	4.10	<10.0	0.76	<0.10	<5.0	<0.10
	7/17/2012	Primary	7.30	5.70	230	0.129	14.62	26.7	-	6.8	0	73.4	<6.6	0.65	0.064	<2.0	0.12
	5/30/2013	Primary	5.72	4.60	415	0.079	14.60	29.3	-	4.7	<0.50	9.84	<6.6	0.28	0.19	<2.0	<0.10
	7/02/2014	Primary	7.86	5.90	165.4	0.057	15.31	28.8		4.1	1.1	19.8	<6.6	0.29	0.15	<2.0	<0.10
	12/07/2015	Primary	6.34	5.66	166.3	0.063	15.90	-	-	-	<0.50	-	1.1	0.16	-	<1.0	-
MW-04	12/17/1997	Primary	3.6					22.0	-	5.20	-	-	<70	<0.02	-	5.00	-
	7/02/1998	Primary	-					23	-	3.9	-	-	<47	-	-	<5	-
	12/02/1998	Primary	7.6					25.3	-	7.1	-	-	<0.2	0.08	-	2.02	<0.01

APPENDIX H
Historical Natural Attenuation Data
Former Varco-Pruden Buildings, Inc.
1140 West Mountain Street
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Antea US of NC Project No. E040957841

ANALYTE DETECTED			Dissolved Oxygen	pH	Oxygen Reduction Potential	Conductance	Temperature	Alkalinity (as CaC03)	Alkalinity Total (as CA03)	Chloride	Ferrous Iron	Total Iron	Methane	Nitrate (as N)	Nitrite (as N)	Sulfate	Sulfide
Site ID	**Date**	**Sample type**	**mg/L**	**SU**	**mV**	**mS/cm**	**°C**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
MW-05	6/29/1998	Primary	-					61	-	1.9	-	-	<47	-	-	13	-
	12/02/1998	Primary	0.4					24.7	-	7.1	-	-	0.3	0.05	-	5.34	<0.01
	8/21/2002	Primary	0.9					-	-	-	-	<0.2	<7.2	0.22	-	7.5	-
	2/25/2003	Primary	0.0					-	-	-	-	0.0	<7.2	0.31	-	7	-
	5/15/2003	Primary	0.9					-	-	-	-	-	<30.0	1.2	-	<1.0	-
	8/18/2003	Primary	3.2					-	-	-	-	<0.050	<10.0	<0.050	-	7.8	-
	11/21/2003	Primary	0.5					69	-	1.7	-	0.42	-	<0.050	<0.050	7.0	0.060
	7/09/2004	Primary	2.7					64	-	<5.0	-	<0.050	-	<0.10	<0.10	8.4	<0.050
	6/17/2005	Primary	0.1					71.	-	<0.16	-	<0.014	33.6	<0.05	<0.05	6.7	0.42
	6/16/2006	Primary	3.8					72	72.	<0.16	0	<0.014	1190	<0.05	<0.05	<0.18	0.39
	6/25/2007	Primary	0.0					69.	-	<5.0	0	<0.050	<10.	<0.10	<0.10	7.0	<0.050
	6/25/2008	Primary	2.1					63.9	-	<5.0	0	<0.0500	<10.0	<0.10	<0.10	7.0	<0.10
	6/17/2009	Primary	0.1	8.28	-108	0.570	18.78	62.0	-	<5.0	0	<0.0500	<10.0	<0.10	<0.10	5.8	<0.10
	7/06/2010	Primary	2.06	8.04	112	0.169	19.42	75.9	-	<5.0	0	<0.05	<10.0	<0.10	<0.10	7.1	<0.10
	6/22/2011	Primary	1.85	7.98	68	0.198	19.17	-	65.4	<5.0	0	<0.05	<10.0	<0.10	<0.10	7.5	<0.10
	7/17/2012	Primary	4.22	8.66	-158	0.220	18.47	60.3	-	2.8	0	0.0890	150	<0.20	<0.020	6.1	0.64
	5/29/2013	Primary	3.23	7.46	-43	0.434	17.95	77.2	-	2.2	<0.50	1.08	<6.6	0.055	<0.020	6.8	<0.10
	7/03/2014	Primary	1.38	8.15	-23.7	0.126	19.78	63.0		2.3	<0.50	<0.05	19.3	0.065	<0.020	7.1	<0.10
	12/07/2015	Primary	0.24	8.54	-273.9	0.155	15.93	-	-	-	<0.50	-	34.9	<0.010	-	5.7	-
MW-06	7/01/1998	Primary	-					93	-	3.8	-	-	<47	-	-	<5	-
	12/03/1998	Primary	3.2					128	-	7.07	-	-	0.9	0.1	-	13.3	<0.01
	7/06/2010	Primary	3.00	7.30	201	0.531	18.38	285	-	<5.0	0	12.4	<10.0	<0.10	<0.10	14.2	<0.10
	6/22/2011	Primary	2.44	6.67	69	0.645	17.19	-	244	12.9	0	1.64	<10.0	<0.10	<0.10	14.9	<0.10
	7/17/2012	Primary	4.18	6.92	79	0.687	16.70	193	-	13.2	0	0.367	<6.6	<0.020	<0.020	20.2	<0.10
	5/30/2013	Primary	4.82	5.69	306	0.975	17.50	133	-	5.9	<0.50	0.0580	<6.6	0.20	<0.020	10.2	<0.10
	7/02/2014	Primary	3.64	7.12	29.1	0.269	17.79	161		5.7	<0.50	0.972	<6.6	0.13	<0.020	10.9	<0.10
	12/07/2015	Primary	1.79	6.72	91.7	0.302	16.59	-	-	-	<0.50	-	1.0	0.040	-	7.7	-
MW-07	6/30/1998	Primary	-					85	-	-	-	-	<47	-	-	-	-
	7/21/1998	Primary	-					-	-	5.3	-	-	-	-	-	<5	-
	12/03/1998	Primary	0.6					229	-	11.5	-	-	2.0	<0.02	-	2.83	<0.01
	7/01/1999	Primary	1.6					114	-	16.7	-	<0.200	0.4	<0.025	-	<2.0	<0.01
	8/21/2002	Primary	1.3					-	-	-	-	0.4	<7.2	0.22	-	4.8	-
	2/25/2003	Primary	0.0					-	-	-	-	0.0	<7.2	0.38	-	12	-
	2/25/2003	Duplicate	0.0					-	-	-	-	-	<7.2	0.32	-	14	-
	2/25/2003	Duplicate	0.0					-	-	-	-	-	<7.2	0.32	-	14.0	-
	5/15/2003	Primary	5.2					-	-	-	-	-	<35.0	0.31	-	3.7	-
	5/15/2003	Duplicate	5.2					-	-	-	-	-	<0.038	0.32	-	4.5	-
	8/18/2003	Primary	6.4					-	-	-	-	9.8	<10.0	<0.050	-	9.2	-
	8/18/2003	Duplicate	6.4					-	-	-	-	9.7	<10.0	<0.050	-	10.0	-
	11/21/2003	Primary	2.9					140	-	3.3	-	5.8	-	0.050	<0.050	<5.0	0.29
	7/09/2004	Primary	0.8					50	-	7.7	-	0.12	-	0.18	<0.10	<5.0	<0.050
	6/17/2005	Primary	1.6					90.	-	8.5	-	0.064	<10.0	0.12	<0.05	8.6	<0.016
	6/16/2006	Primary	1.8					60	60.	7.5	0	10.	<5	0.28	<0.05	<0.18	<0.016
	6/25/2007	Primary	5.4					70.	-	7.7	0	2.3	<10.	0.25	<0.10	<5.0	<0.050
	6/25/2008	Primary	4.1					52.3	-	6.6	0	0.297	<10.0	<0.10	<0.10	<5.0	<0.10
	6/18/2009	Primary	0.8	6.03	171	0.224	19.85	20.7	-	<5.0	0	0.592	<10.0	<0.10	<0.10	9.7	<0.10
	7/06/2010	Primary	3.12	5.92	65	0.201	18.21	68.1	-	5.5	0	1.0	<10.0	0.44	<0.10	14.6	<0.10
	6/22/2011	Primary	3.60	5.66	108	0.210	16.20	-	74.7	7.2	0	1.2	<10.0	<0.10	<0.10	8.7	<0.10
	7/17/2012	Primary	1.07	5.98	96	0.246	15.70	66.3	-	7.0	0	0.463	<6.6	0.15	<0.020	4.8	<0.10
	5/29/2013	Primary	0.91	4.22	278	0.446	17.38	70.8	-	6.5	<0.50	1.04	6.8	0.099	<0.020	4.1	<0.10
	7/02/2014	Primary	2.37	6.08	31.2	0.143	18.99	68.1		6.8	0.25	2.13	<6.6	0.030	<0.020	5.0	<0.10
	12/07/2015	Primary	1.20	5.78	2.8	0.159	15.07	-	-	-	<0.50	-	2.7	0.10	-	5.0	-

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ANALYTE DETECTED			Dissolved Oxygen	pH	Oxygen Reduction Potential	Conductance	Temperature	Alkalinity (as CaC03)	Alkalinity Total (as CA03)	Chloride	Ferrous Iron	Total Iron	Methane	Nitrate (as N)	Nitrite (as N)	Sulfate	Sulfide
Site ID	**Date**	**Sample type**	**mg/L**	**SU**	**mV**	**mS/cm**	**°C**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
MW-08	7/06/1998	Primary	-					37	-	5.6	-	-	<47	-	-	<5	-
	12/03/1998	Primary	4.7					38.8	-	8.49	-	-	0.3	0.47	-	<2	<0.01
	7/01/1999	Primary	3.5					42.3	-	12.4	-	<0.200	<0.2	0.84	-	<2.0	<0.01
	8/21/2002	Primary	4.5					-	-	-	-	<0.2	<7.2	0.68	-	1.7	-
	2/25/2003	Primary	4.0					-	-	-	-	0.0	<7.2	1.3	-	1	-
	5/15/2003	Primary	4.5					-	-	-	-	-	<30.0	1.2	-	6.5	-
	8/18/2003	Primary	5.4					-	-	-	-	<0.050	<10.0	1.2	-	<5.0	-
	11/21/2003	Primary	5.6					22	-	1.9	-	0.12	-	1.2	<0.050	<5.0	0.072
	7/09/2004	Primary	4.2					24	-	7.3	-	1.6	-	0.78	<0.10	<5.0	0.13
	7/09/2004	Duplicate	4.2					20	-	7.8	-	0.075	-	0.77	<0.050	0.0053	0.081
	6/17/2005	Primary	6.4					32.	-	8.3	-	0.41	<10.0	0.94	<0.05	<0.18	0.16
	6/17/2005	Duplicate	6.4					-	-	-	-	-	<10.0	-	-	-	-
	6/16/2006	Primary	4.3					29	29.	8.2	0	4.1	<5	0.83	<0.05	<0.18	<0.016
	6/16/2006	Duplicate	4.3					-	31.	7.9	-	3.4	<5	0.82	<0.05	<0.18	<0.016
	6/25/2007	Primary	9.4					28.	-	8.7	0	26	<10.	1.1	<0.10	<5.0	<0.050
	6/25/2007	Duplicate	9.4					30.	-	9.2	-	24	<10.	1.0	<0.10	7.5	<0.050
	6/25/2008	Primary	3.9					36.5	-	8.0	0	2.58	<10.0	0.81	<0.10	5.1	<0.10
	6/25/2008	Duplicate	3.9					33.0	-	6.6	-	0.915	<10.0	0.86	<0.10	<5.0	<0.10
	6/18/2009	Primary	4.5	5.86	280	0.097	19.09	21.8	-	<5.0	0	0.177	<10.0	1.7	<0.10	<5.0	<0.10
	6/18/2009	Duplicate	4.5					22.3	-	<5.0	-	0.211	<10.0	1.6	<0.10	<5.0	<0.10
	7/06/2010	Primary	4.61	5.35	252	0.086	18.15	23.4	-	5.1	0	0.607	<10.0	1.4	<0.10	<5.0	<0.10
	7/06/2010	Duplicate	-					24.6	-	<5.0	-	1.0	<10.0	1.5	<0.10	<5.0	<0.10
	6/22/2011	Primary	6.57	5.07	130	0.124	16.92	-	32.2	8.3	0	8.97	<10.0	0.64	0.24	<5.0	0.12
	6/22/2011	Duplicate	-					-	29.0	7.8	-	9.12	<10.0	0.86	0.20	<5.0	0.11
	7/17/2012	Primary	6.01	5.63	161	0.166	17.84	23.1	-	10.5	0	1.5	<6.6	0.68	<0.020	<2.0	<0.10
	7/17/2012	Duplicate	-					23.7	-	10.1	-	1.02	<6.6	0.68	<0.020	<2.0	<0.10
	5/30/2013	Primary	5.66	4.57	441	0.277	18.79	37.8	-	11.3	<0.50	0.536	72.0	0.61	<0.020	<2.0	<0.10
	7/03/2014	Duplicate	-					21.6		12.4	1.1	4.02	<6.6	0.37	0.045	<2.0	<0.10
	7/03/2014	Primary	5.93	5.74	172.2	0.077	18.08	22.0	-	12.3	1.2	3.93	<6.6	0.36	0.047	<2.0	<0.10
	12/07/2015	Primary	3.63	5.68	120.4	0.116	16.84	-	-	-	<0.50	-	<10.0	0.39	-	1.5	-
	12/07/2015	Duplicate	-	-	-	-	-	-	-	-	<0.50	-	6.4	0.37	-	2.0	-

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ANALYTE DETECTED			Dissolved Oxygen	pH	Oxygen Reduction Potential	Conductance	Temperature	Alkalinity (as CaC03)	Alkalinity Total (as CA03)	Chloride	Ferrous Iron	Total Iron	Methane	Nitrate (as N)	Nitrite (as N)	Sulfate	Sulfide
Site ID	**Date**	**Sample type**	**mg/L**	**SU**	**mV**	**mS/cm**	**°C**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**µg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
MW-09	7/07/1998	Primary	-					71	-	8.5	-	-	<47	-	-	13	-
	12/02/1998	Primary	2.1					41.6	-	15.2	-	-	14.7	1.12	-	11.2	<0.01
	7/01/1999	Primary	2.4					36.9	-	19.2	-	<0.200	<0.2	1.56	-	16.9	<0.01
MW-10	3/29/2000	Primary	-					-	-	-	-	0.119	-	-	-	-	-
	2/25/2003	Primary	4.0					-	-	-	-	0.0	<7.2	0.83	-	0.72	-
	5/15/2003	Primary	8.3					-	-	-	-	-	<32.0	0.38	-	1.5	-
	8/18/2003	Primary	7.6					-	-	-	-	5.4	<10.0	<0.050	-	<5.0	-
	11/21/2003	Primary	8.0					-	-	-	-	5.6	-	0.36	-	<5.0	-
	7/09/2004	Primary	6.4					-	-	-	-	1.7	-	0.19	<0.050	<5.0	-
	6/17/2005	Primary	8.8					30.	-	<0.16	-	0.50	<10.0	0.43	<0.05	<0.18	<0.016
	6/16/2006	Primary	6.9					-	-	-	0	1.2	<5	0.77	-	<0.18	-
	6/25/2007	Primary	7.3					-	-	-	0	3.2	<10.	0.40	-	<5.0	-
	6/25/2008	Primary	8.3					-	-	-	0	7.61	<10.	<0.10	-	<5.0	-
	6/18/2009	Primary	5.6	6.09	279	0.090	14.83	-	-	-	0	<0.0500	<10.0	0.11	-	<5.0	-
	7/06/2010	Primary	6.30	5.59	187	0.075	14.62	-	-	-	0	3.2	<10.0	<0.10	-	<5.0	-
	6/22/2011	Primary	7.22	5.22	133	0.078	14.28	-	-	-	0	0.992	<10.0	<0.10	-	<5.0	-
	7/17/2012	Primary	9.96	5.68	229	0.119	14.55	-	-	-	0	6.5	<6.6	0.45	-	<2.0	-
	5/30/2013	Primary	3.41	4.53	420	0.083	14.50	-	-	-	-	0.103	<6.6	0.64	-	<2.0	-
	7/3/2014	Primary	5.90	5.81	136.7	0.056	15.17	-	-	-	-	0.22	<6.6	0.86	<0.020	<2.0	-
	12/7/2015	Primary	4.13	5.54	193.4	0.082	14.94	-	-	-	<0.50	-	2.0	0.72	-	<2.0	-

Notes

µg/L	Micrograms Per Liter
mg/L	Milligrams Per Liter
<	Less Than Laboratory Reporting Limit
-	Not analyzed for specific chemical constituent