



ARM Group LLC

Engineers and Scientists

December 9, 2021

Ms. Barbara Brown
Project Coordinator
Maryland Department of the Environment
1800 Washington Boulevard
Baltimore, MD 21230

Re: Former Coke Oven Area (Parcel B10)
Northeast Delineation Letter Report
Tradepoint Atlantic
Sparrows Point, MD 21219

Dear Ms. Brown:

On behalf of Tradepoint Atlantic (TPA), ARM Group LLC (ARM) is pleased to provide this letter to document the results from the recent Northeast Delineation conducted at the former Coke Oven Area (COA) – Parcel B10 (the Site) of the Tradepoint Atlantic property located in Sparrows Point, Maryland. The Northeast Delineation was requested by the Maryland Department of the Environment (MDE) in a Comment Response Letter (dated February 23, 2021) related to the Coke Point Area Corrective Measures Study Investigation Report (CPA CMS) Revision 2 (updated on February 23, 2021) to delineate groundwater contamination in the vicinity of groundwater monitoring locations CO05-PZM006, CO08-PZM005, CO08-PZM036, and CO212-MWS.

Delineation Scope

Based on the benzene and naphthalene isoconcentration maps developed for the shallow and intermediate zones as part of the CPA CMS, additional locations requiring delineation were identified. Specifically, three locations (CO05-PZM006, CO08-PZM005, and CO212-MWS) were identified in the shallow groundwater zone as requiring additional delineation, while one location (CO08-PZM036) was identified in the intermediate zone as requiring additional delineation.

Figure 1 and **Figure 2** displays the location of these four monitoring wells. The concentration of benzene and naphthalene, as well as the date of last sample, for each of these wells are included in the table below:

Well ID	Benzene Concentration (ug/L)	Naphthalene Concentration (ug/L)
CO05-PZM006 (6/10/2015)	1,850	5,750
CO08-PZM005 (6/10/2015)	15,000	1,020
CO08-PZM036 (6/11/2015)	35,300	6,390
CO212-MWS (2/6/2020)	10,600	19,000

The CPA CMS suggested that the elevated benzene concentrations that were observed in the shallow zone at CO08-PZM005 and CO212-MWS may be indicative of an isolated local source in the immediate vicinity. Similar to the elevated benzene observed in the shallow zone well CO08-PZM005, elevated benzene was also observed in the adjacent intermediate zone well CO08-PZM036, further suggesting that an isolated impact at this location is associated with a local source.

The CPA CMS stated that the highest detection of naphthalene in the Coke Oven Area (COA) and Parcel B11 shallow wells was observed in CO212-MWS (19,000 ug/L). The CPA CMS suggested that the elevated naphthalene in CO212-MWS indicated a potential isolated local source of groundwater contamination in the vicinity of CO08-PZM005 and CO212-MWS. Additionally, elevated naphthalene concentrations were observed in the adjacent intermediate zone well CO08-PZM036, which further suggests an isolated local impact that is related to the naphthalene impacts associated in the vicinity of the shallow zone wells CO08-PZM005 and CO212-MWS.

As part of the Comment Response Letter (dated February 23, 2021) a groundwater delineation work plan was submitted to the MDE which proposed the installation of:

- four delineation monitoring wells surrounding the shallow zone groundwater well CO05-PZM006 (CO05A-PZM, CO05B-PZM, CO05C-PZM, and CO05D-PZM),
- four delineation monitoring wells surrounding the shallow zone groundwater wells CO08-PZM005 and CO212-MWS (CO08A-PZM, CO08B-PZM, CO212A-PZM, and CO212B-PZM), and,
- two delineation monitoring wells surrounding the intermediate zone groundwater well CO08-PZM036 (CO08C-PZM and CO08D-PZM).

The location of the delineation monitoring wells are shown on **Figure 1** and **Figure 2**.

Field Work

In April 2021, ARM installed the monitoring wells for the Northeast Delineation in accordance with the approved Work Plan that was proposed in the CPA CMS Comment Response Letter utilizing the Terra Sonic International: TSi 150CC Sonic Drill Rig. During the installation of each monitoring well, soil types were logged and screened with a hand-held photoionization detector



(PID). The soil boring and monitoring well construction logs have been included in **Attachment 1**.

ARM personnel completed low flow groundwater sampling for this delineation area on May 19 and 20, 2021, in accordance with the **Field Standard Operating Procedure (SOP) Numbers 006 and 007** as provided in Appendix A of the Quality Assurance Project Plan (QAPP). A groundwater sample was collected from each location if the monitoring well was absent of significant non-aqueous phase liquid (NAPL). Groundwater samples were collected at each location using laboratory supplied sample containers and preservatives, a peristaltic pump, dedicated sample tubing, and a water quality multiparameter meter with a flow-through cell. Calibration of the multiparameter meter was performed before the start of each day of the sampling event. Documentation of the multiparameter meter calibration, in addition to the groundwater purge logs, are included in **Attachment 2**. Groundwater samples were submitted to Pace Analytical Services Inc. (PACE) to be analyzed for Target Compound List (TCL) Volatile Organic Compounds (VOCs) via USEPA Method 8260 and TCL polynuclear aromatic hydrocarbons (PAHs) via USEPA Method 8270 SIM. Laboratory reports are included in **Attachment 3**.

Results

Table 1 and **Table 2** present a summary of benzene and naphthalene concentrations in shallow and intermediate groundwater, respectively. The tables include the most recent groundwater sampling results for each location. **Figure 1** and **Figure 2** illustrate the groundwater Project Action Limit (PAL) exceedances for the most recent sampling results for the shallow and intermediate zones, respectively. Groundwater samples were not collected from monitoring well CO05D-PZM and CO212B-PZM due to the presence of non-aqueous phase liquid (NAPL). Since the installation activities, four delineation monitoring wells (CO05B-PZM, CO05D-PZM, CO08A-PZM, and CO212B-MWS) have had trace or measurable NAPL. The NAPL gauging data for these four locations is provided on **Table 3**. While the boring log for CO05D-PZM noted a ‘possible void’ from 17-23 feet below ground surface, no additional sand was needed during placement of the well’s filter pack (when compared with other locations), indicating that if there was a void, it was not extensive. CO05D-PZM has been proposed for transmissivity testing as part of the *Site-wide NAPL Transmissivity Work Plan* (dated September 1, 2021).

Data that were used to develop isoconcentration figures for benzene and naphthalene included:

- the recent groundwater results from the Northeast Delineation (completed May 2021),
- Coke Oven Area quarterly sampling (completed in the first half of 2021),
- the Coke Point Landfill semi-annual sampling (completed in the first half of 2021)
- the most recent groundwater sampling results from all groundwater locations within the vicinity of the Northeast Delineation; and
- the monitoring wells completed as part of this program.

The following figures display the groundwater isoconcentration results from the Northeast Delineation study area.

- **Figure 3** (shallow zone benzene concentrations),



- **Figure 4** (shallow zone naphthalene concentrations),
- **Figure 5** (intermediate zone benzene concentrations), and
- **Figure 6** (intermediate zone naphthalene concentrations)

It appears that elevated concentrations of benzene in the shallow zone are isolated between CO08-PZM005, CO212-MWS, and CO212B-PZM (with NAPL detected), as well as, CO05-PZM006, CO05A-PZM, CO05B-PZM, and CO05D-PZM (**Figure 3**). Elevated concentrations of naphthalene in the shallow zone appear to be isolated at CO212-MWS and CO212B-PZM (with NAPL detected), as well as defined between CO05A-PZM, CO05B-PZM, and CO05D-PZM (**Figure 4**). It appears that both elevated concentrations of benzene and naphthalene in the intermediate zone are confined to CO08-PZM036 (**Figure 5** and **Figure 6**).

Summary

Based on the NAPL gauging data and the Northeast Delineation groundwater results, it appears that the benzene and naphthalene concentrations in the shallow and intermediate zones has been largely characterized in these areas. However, several areas may require additional delineation. Additional delineation wells will be proposed as part of the CPA Combined Delineation Work Plan, which will be submitted to the regulators before the end of the year. This data will be incorporated into the site wide groundwater corrective measures study that is currently being developed for the property.

If you have questions regarding any information covered in this document, please feel free to contact Peter Haid at Tradepoint Atlantic: 443-649-5055.

Respectfully Submitted,
ARM Group LLC



Kaye Guille, P.E., PMP
Staff Geologist



T. Neil Peters, P.E.
Senior Vice President



Attachments:

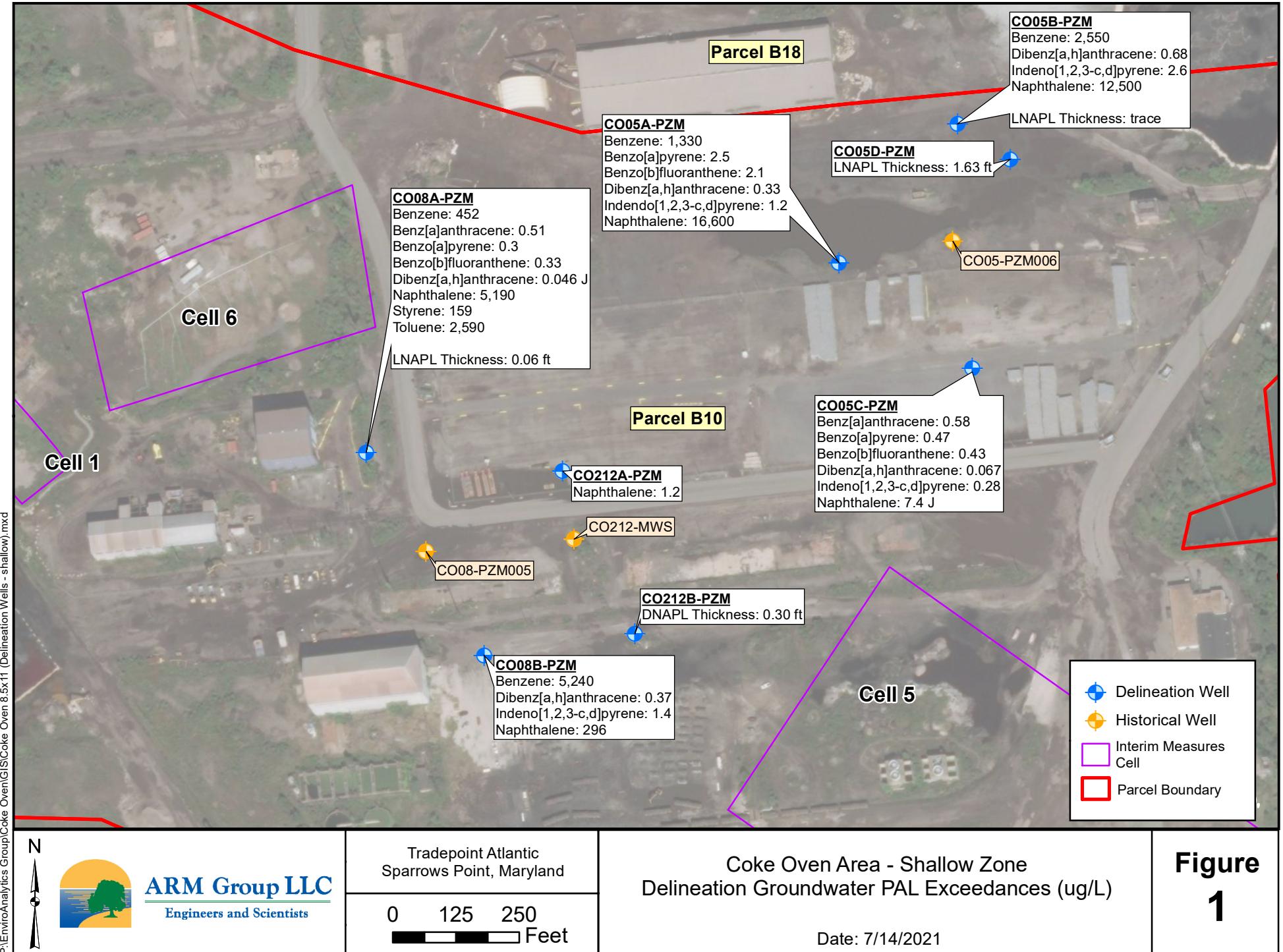
Figure 1: Shallow Zone Delineation Groundwater PAL Exceedances
Figure 2: Intermediate Zone Delineation Groundwater PAL Exceedances
Figure 3: Shallow Zone Groundwater Benzene Concentrations
Figure 4: Shallow Zone Groundwater Naphthalene Concentrations
Figure 5: Intermediate Zone Groundwater Benzene Concentrations
Figure 6: Intermediate Zone Groundwater Naphthalene Concentrations

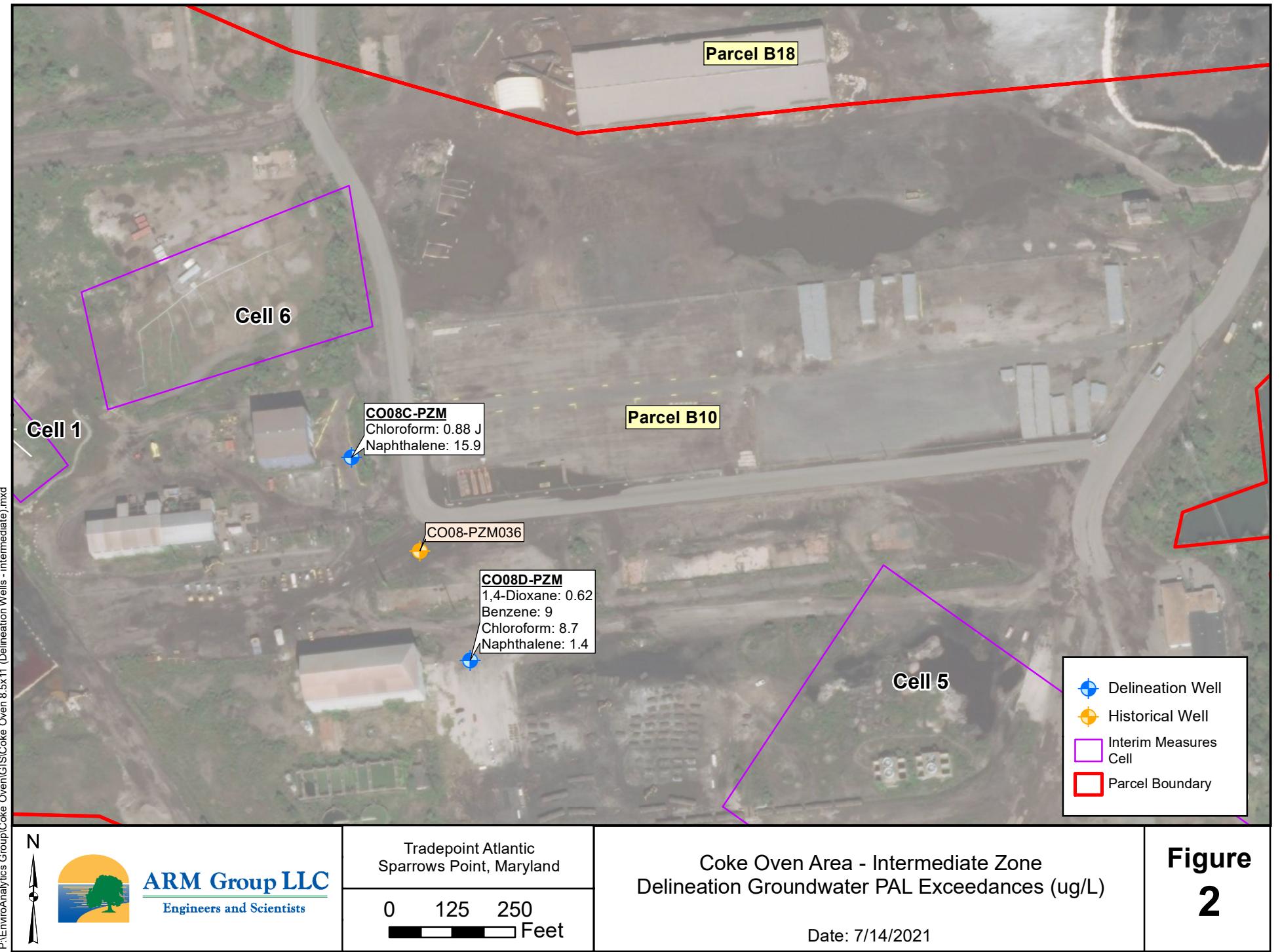
Table 1: Summary of Benzene and Naphthalene Detected in Shallow Groundwater
Table 2: Summary of Benzene and Naphthalene Detected in Intermediate Groundwater
Table 3: NAPL Gauging Activities

Attachment 1: Boring and Monitoring Well Construction Logs
Attachment 2: Field Forms
Attachment 3: Laboratory Reports



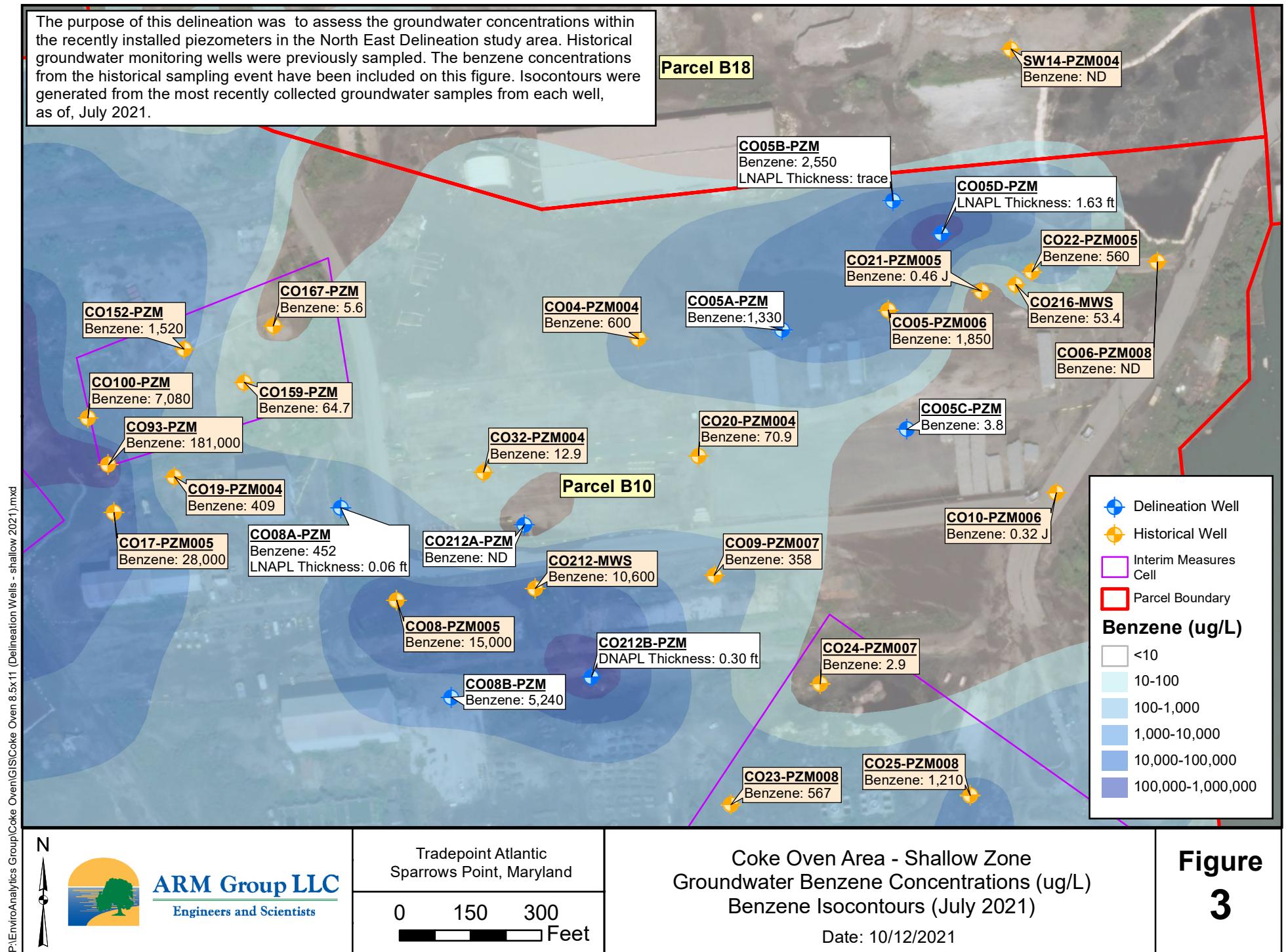
FIGURES



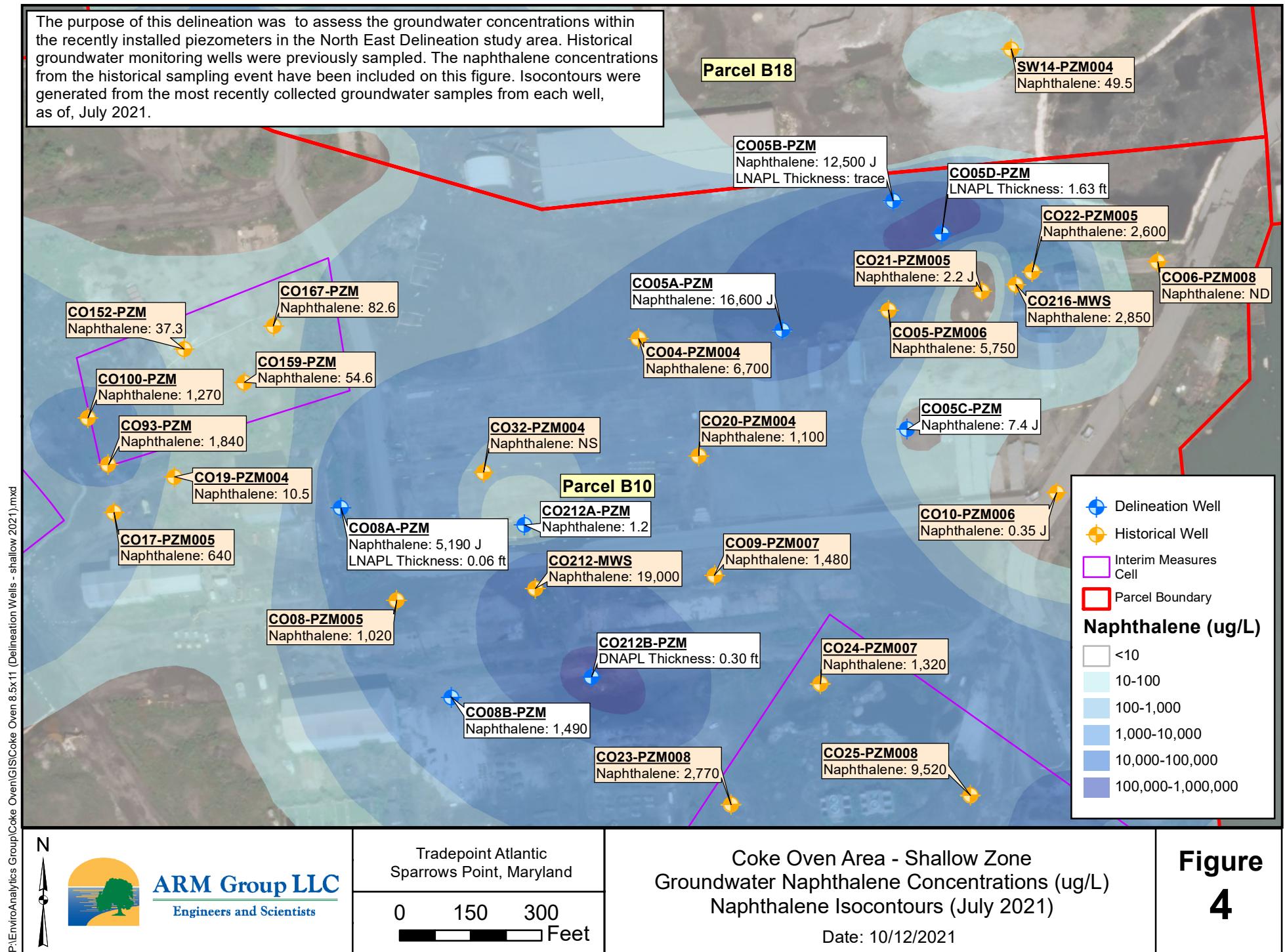


**Figure
2**

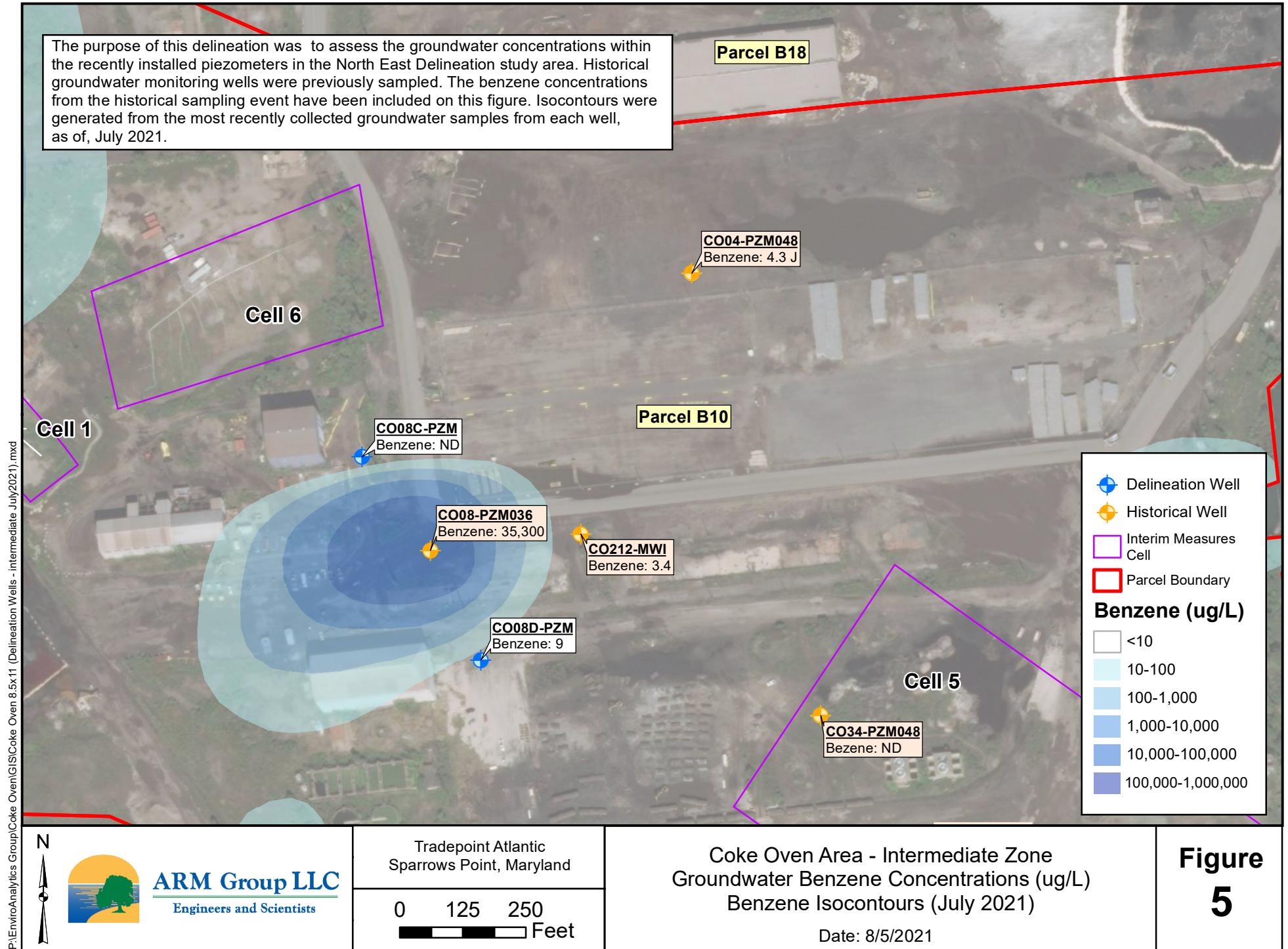
The purpose of this delineation was to assess the groundwater concentrations within the recently installed piezometers in the North East Delineation study area. Historical groundwater monitoring wells were previously sampled. The benzene concentrations from the historical sampling event have been included on this figure. Isocontours were generated from the most recently collected groundwater samples from each well, as of, July 2021.

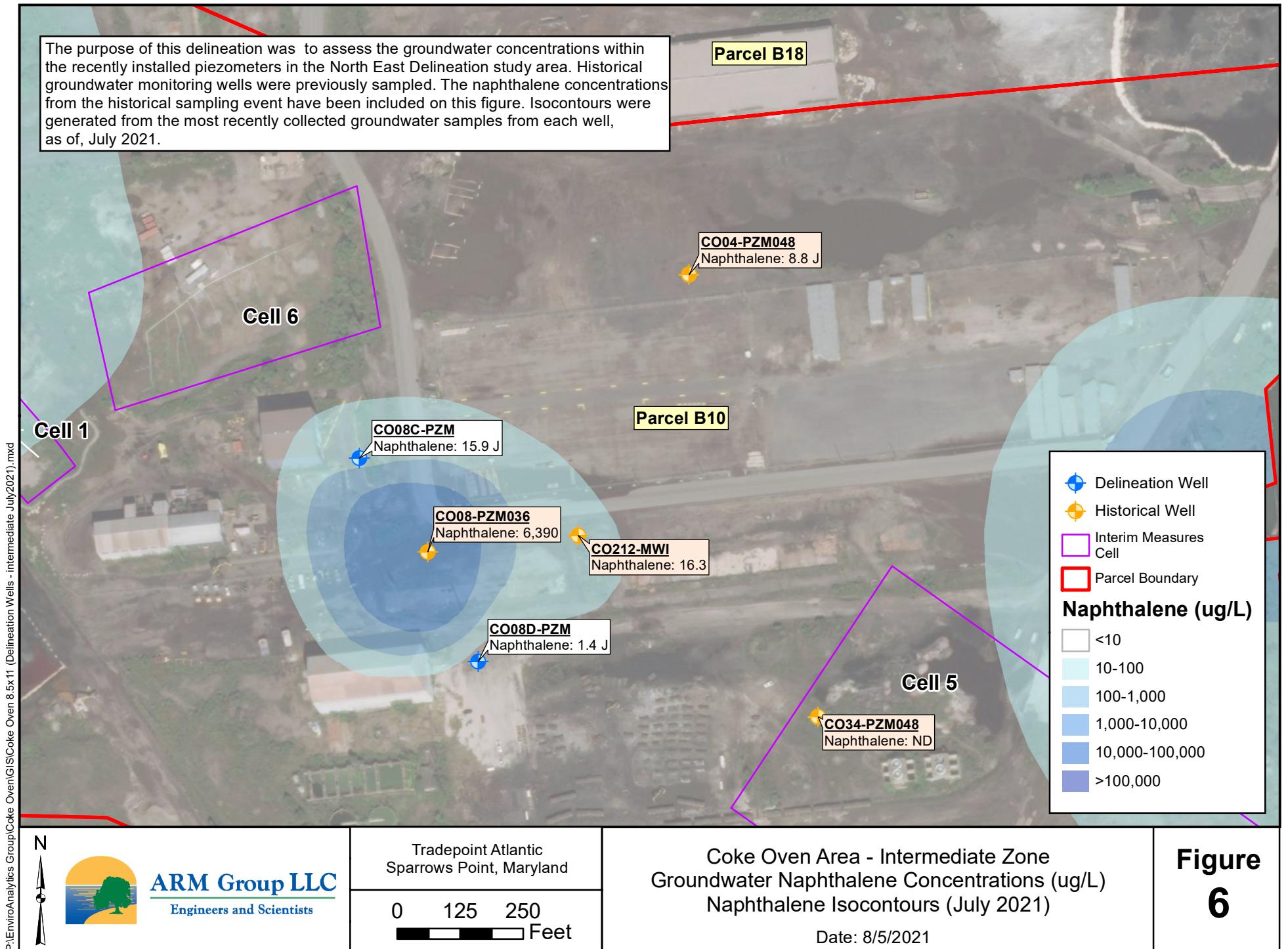


The purpose of this delineation was to assess the groundwater concentrations within the recently installed piezometers in the North East Delineation study area. Historical groundwater monitoring wells were previously sampled. The naphthalene concentrations from the historical sampling event have been included on this figure. Isocontours were generated from the most recently collected groundwater samples from each well, as of, July 2021.



The purpose of this delineation was to assess the groundwater concentrations within the recently installed piezometers in the North East Delineation study area. Historical groundwater monitoring wells were previously sampled. The benzene concentrations from the historical sampling event have been included on this figure. Isocontours were generated from the most recently collected groundwater samples from each well, as of, July 2021.





TABLES

Table 1 - Northeast Delineation
Parcel B10
Summary of Benzene and Naphthalene Detected in Shallow Groundwater

Well ID	Sample Date	Benzene Concentration (ug/L)	Naphthalene Concentration (ug/L)
CO04-PZM004	12/19/2001	660	6,700
CO05A-PZM	5/19/2021	1,330	16,600 J
CO05B-PZM	5/20/2021	2,550	12,500 J
CO05C-PZM	5/19/2021	3.8	7.4 J
CO05-PZM006	6/10/2015	1,850	5,750
CO06-PZM008	12/20/2001	ND	ND
CO08A-PZM	5/20/2021	452	5,190 J
CO08B-PZM	5/19/2021	5,240	1,490 J
CO08-PZM005	6/10/2015	15,000	1,020
CO09-PZM007	6/10/2015	358	1,480
CO100-PZM	10/7/2019	7,080	1,270
CO10-PZM006	6/11/2015	0.32 J	0.35 J
CO152-PZM	4/10/2020	1,520	37.3
CO159-PZM	4/10/2020	64.7	54.6
CO167-PZM	4/10/2020	5.6	82.6
CO17-PZM005	7/1/2004	28,000	640
CO19-PZM004	6/10/2015	409	10.5
CO20-PZM004	6/10/2015	70.9	1,100
CO212A-PZM	5/20/2021	ND	1.2
CO212-MWS	2/6/2020	10,600	19,000
CO216-MWS	4/10/2020	53.4	2,850
CO21-PZM005	12/20/2001	0.46 J	2.2 J
CO22-PZM005	12/20/2001	560	2,600
CO23-PZM008	5/25/2021	567	2,770
CO24-PZM007	5/25/2021	2.9	1,320
CO25-PZM008	6/10/2015	1,210	9,520
CO32-PZM004	3/19/2020	12.9	N/A
CO93-PZM	5/25/2021	181,000	1,840

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

Benzene PAL = 5 ug/L

Naphthalene PAL = 0.17 ug/L

N/A indicates that the parameter was not analyzed for this sample

ND: This analyte was not detected in the sample above the laboratory sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

Table 2 - Northeast Delineation
Parcel B10
Summary of Benzene and Naphthalene Detected in Intermediate Groundwater

Well ID	Sample Date	Benzene Concentration (ug/L)	Naphthalene Concentration (ug/L)
CO04-PZM048	3/10/2020	4.3 J	8.8 J
CO08C-PZM	5/19/2021	ND	15.9 J
CO08D-PZM	5/19/2021	9	1.4 J
CO08-PZM036	6/11/2015	35,300	6,390
CO212-MWI	2/6/2020	3.4	16.3

Detections in bold

Values in red indicate an exceedance of the Project Action Limit (PAL)

Benzene PAL = 5 ug/L

Naphthalene PAL = 0.17 ug/L

ND: This analyte was not detected in the sample above the laboratory sample quantitation/detection limit.

J: The positive result reported for this analyte is a quantitative estimate.

Table 3 - NAPL Gauging Activities

Parcel B10

Sample ID	Installation Date	Well Total Depth (Feet bgs)	Screen Interval (Feet bgs)	Riser Stick-Up (Feet)	4/9/2021			4/13/2021			4/14/2021		
					Depth to NAPL (Feet TOC)	Depth to Water (Feet TOC)	NAPL Thickness (Feet)	Depth to NAPL (Feet TOC)	Depth to Water (Feet TOC)	NAPL Thickness (Feet)	Depth to NAPL (Feet TOC)	Depth to Water (Feet TOC)	NAPL Thickness (Feet)
CO05B-PZM	4/14/2021	13.6	8.6-13.6	2.86	NA	NA	NA	NA	NA	NA	trace	6.40	trace
CO05D-PZM	4/14/2021&4/28/2021	19	9-19	2.90	NA	NA	NA	NA	NA	NA	8.10	9.80	1.70
CO08A-PZM	4/9/2021	17	7-17	2.90	-	14.42	-	NM	NM	NM	NM	NM	NM
CO212B-MWS	4/13/2021	20	10-20	2.90	NA	NA	NA	-	13.86	-	NM	NM	NM

Sample ID	Installation Date	Well Total Depth (Feet bgs)	Screen Interval (Feet bgs)	Riser Stick-Up (Feet)	4/15/2021			4/28/2021			5/11/2021		
					Depth to NAPL (Feet TOC)	Depth to Water (Feet TOC)	NAPL Thickness (Feet)	Depth to NAPL (Feet TOC)	Depth to Water (Feet TOC)	NAPL Thickness (Feet)	Depth to NAPL (Feet TOC)	Depth to Water (Feet TOC)	NAPL Thickness (Feet)
CO05B-PZM	4/14/2021	13.6	8.6-13.6	2.86	-	6.47	-	NM	NM	NM	NM	NM	NM
CO05D-PZM	4/14/2021&4/28/2021	19	9-19	2.90	8.40	9.10	0.70	-	8.68	-	NM	NM	NM
CO08A-PZM	4/9/2021	17	7-17	2.90	12.38	12.44	0.06	NM	NM	NM	13.22	13.30	0.08
CO212B-MWS	4/13/2021	20	10-20	2.90	-	13.80	-	NM	NM	NM	NM	NM	NM

Sample ID	Installation Date	Well Total Depth (Feet bgs)	Screen Interval (Feet bgs)	Riser Stick-Up (Feet)	5/12/2021			5/17/2021			5/20/2021		
					Depth to NAPL (Feet TOC)	Depth to Water (Feet TOC)	NAPL Thickness (Feet)	Depth to NAPL (Feet TOC)	Depth to Water (Feet TOC)	NAPL Thickness (Feet)	Depth to NAPL (Feet TOC)	Depth to Water (Feet TOC)	NAPL Thickness (Feet)
CO05B-PZM	4/14/2021	13.6	8.6-13.6	2.86	NM	NM	NM	trace	7.63	trace	trace	7.85	trace
CO05D-PZM	4/14/2021&4/28/2021	19	9-19	2.90	NM	NM	NM	NM	NM	NM	NM	NM	NM
CO08A-PZM	4/9/2021	17	7-17	2.90	NM	NM	NM	13.22	13.30	0.08	13.52	13.59	0.07
CO212B-MWS	4/13/2021	20	10-20	2.90	trace	14.43	trace	22.37	15.45	0.30	22.37	15.45	0.30

NA = Not Applicable

NM = Not Measured

Pink = LNAPL Detection

Blue = DNAPL Detection

bgs = below ground surface

TOC = Top of Casing

ATTACHMENT 1

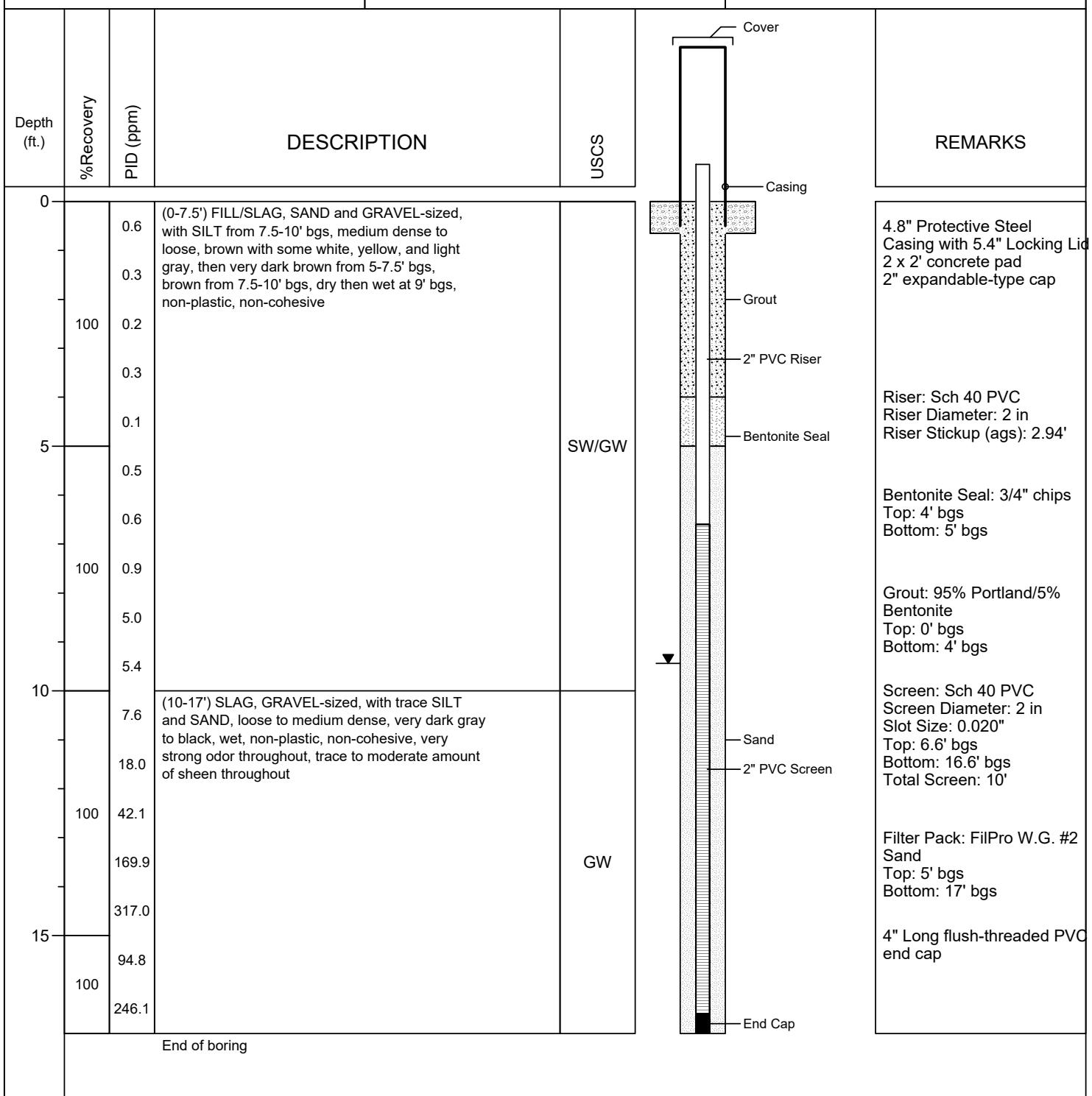


ARM Group LLC
Engineers and Scientists

Well ID: CO05A-PZM

(page 1 of 1)

Project Name	: COA NE Delineation	Northing (ft)	: 562761.05
Project Number	: 21010210	Easting (ft)	: 1457196.25
Client	: Tradepoint Atlantic	Date/Time Started	: 04/13/21 1430
Site	: Sparrow's Point	Date/Time Completed	: 04/13/21 1545
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 12.26
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 15.13
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 17' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 12.43' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		



TOC - Top of PVC Casing

AMSL - Above Mean Sea Level

ags - above ground surface

bgs - below ground surface

Monitoring Well Development

Date: 05/11/2021

Purged Amount: 40 gallons

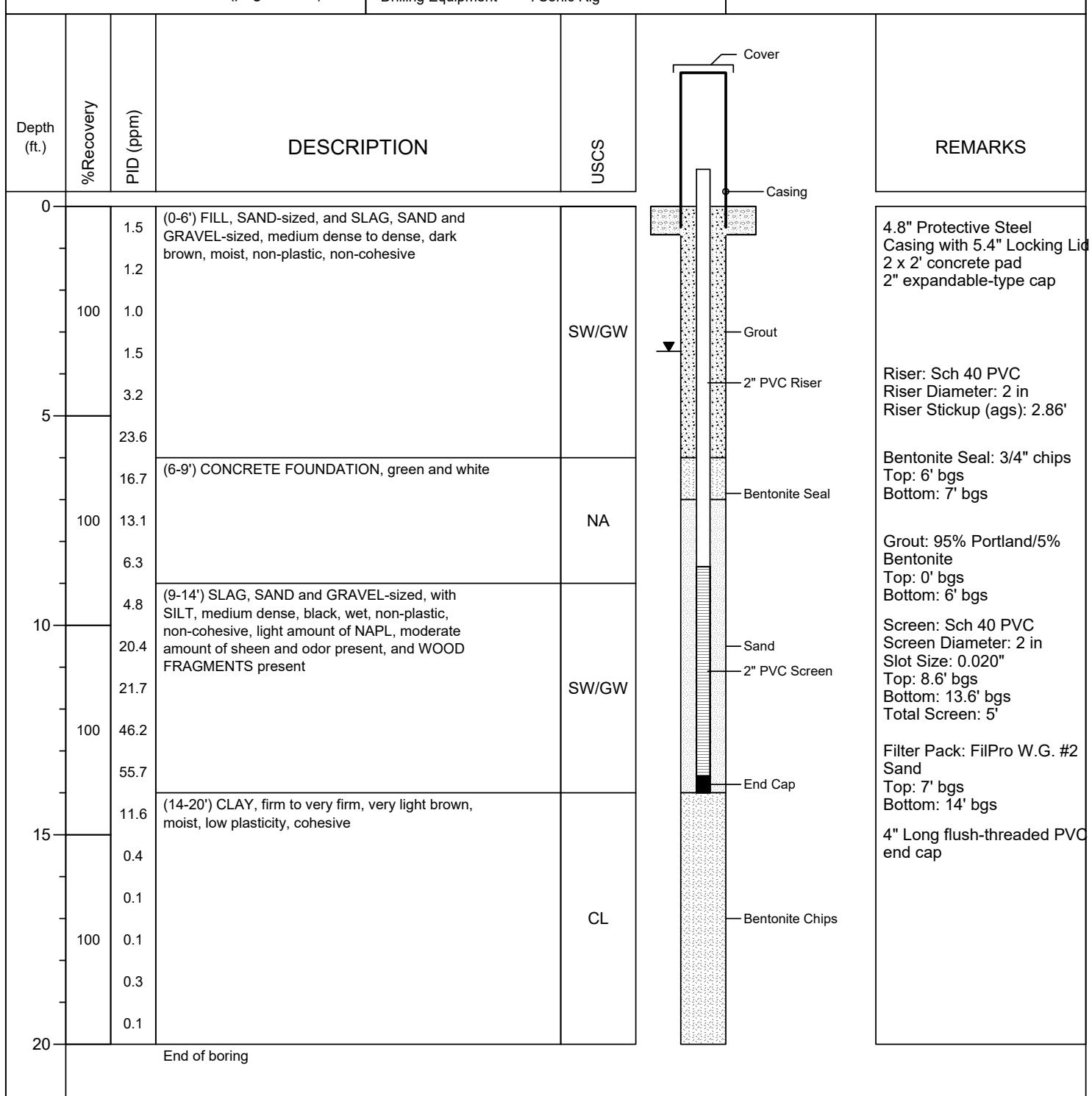


ARM Group LLC
Engineers and Scientists

Well ID: CO05B-PZM

(page 1 of 1)

Project Name	: COA NE Delineation	Northng (ft)	: 563067.00
Project Number	: 21010210	Easting (ft)	: 1457427.31
Client	: Tradepoint Atlantic	Date/Time Started	: 04/14/21 1130
Site	: Sparrow's Point	Date/Time Completed	: 04/14/21 1330
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 11.84
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 14.56
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 20' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 6.47' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		



TOC - Top of PVC Casing

AMSL - Above Mean Sea Level

ags - above ground surface

bgs - below ground surface

Monitoring Well Development

Date: 05/13/2021

Purged Amount: 45 gallons

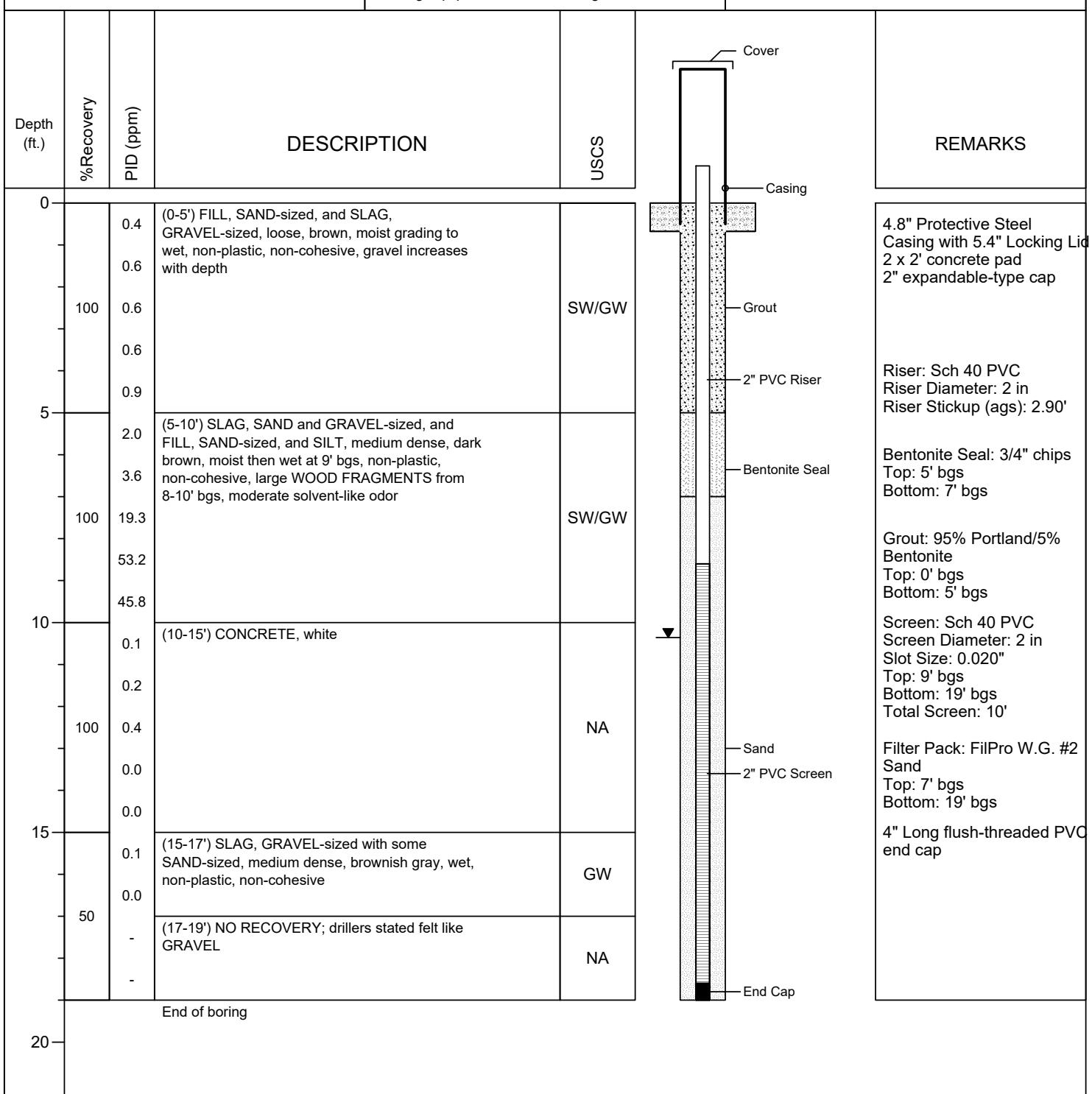


ARM Group LLC
Engineers and Scientists

Well ID: CO05C-PZM

(page 1 of 1)

Project Name	: COA NE Delineation	Northing (ft)	: 562729.71
Project Number	: 21010210	Easting (ft)	: 1457784.18
Client	: Tradepoint Atlantic	Date/Time Started	: 04/15/21 0900
Site	: Sparrow's Point	Date/Time Completed	: 04/15/21 1110
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 12.44
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 15.20
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 19' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 13.66' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		



TOC - Top of PVC Casing

AMSL - Above Mean Sea Level

ags - above ground surface

bgs - below ground surface

Monitoring Well Development

Date: 05/13/2021

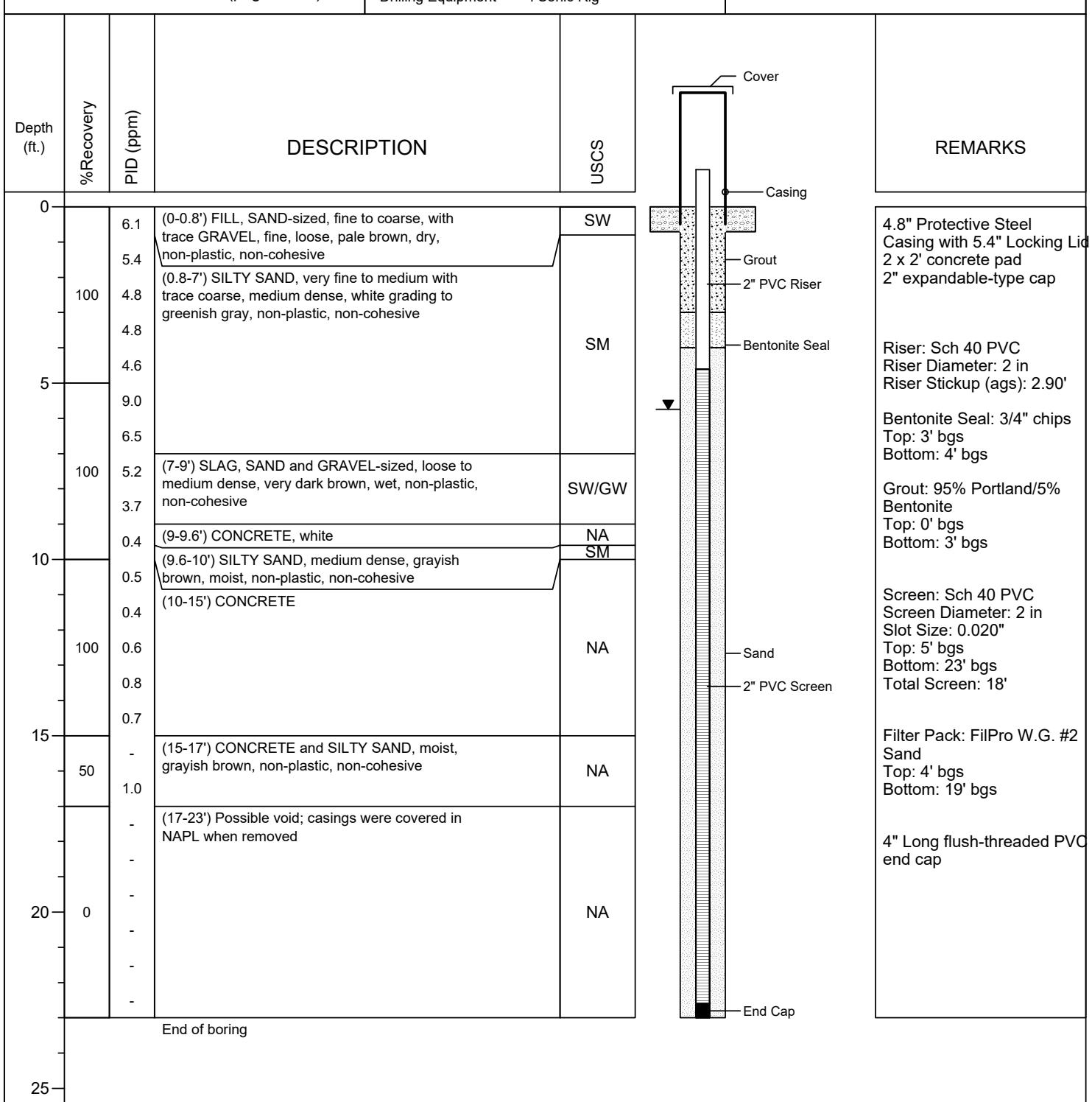
Purged Amount: 35 gallons



Well ID: CO05D-PZM

(page 1 of 1)

Project Name	: COA NE Delineation	Northng (ft)	: 562996.19
Project Number	: 21010210	Easting (ft)	: 1457531.28
Client	: Tradepoint Atlantic	Date/Time Started	: 04/28/21 1030
Site	: Sparrow's Point	Date/Time Completed	: 04/28/21 1230
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 11.83
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 14.68
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 23' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 8.97' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		



TOC - Top of PVC Casing

AMSL - Above Mean Sea Level

ags - above ground surface

bgs - below ground surface

W - weight of hammer

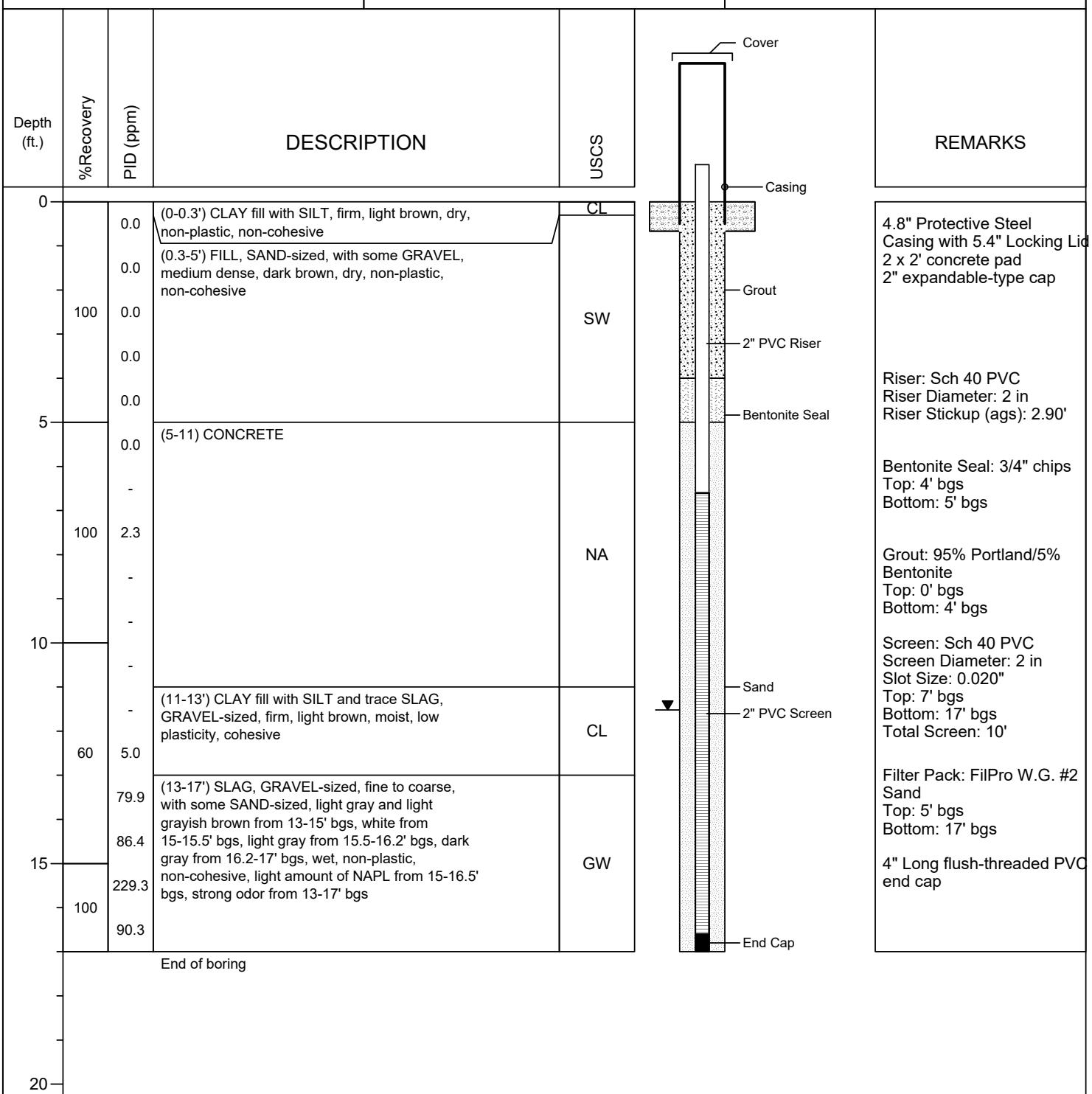


ARM Group LLC
Engineers and Scientists

Well ID: CO08A-PZM

(page 1 of 1)

Project Name	: COA NE Delineation	Northing (ft)	: 562396.75
Project Number	: 21010210	Easting (ft)	: 1456301.88
Client	: Tradepoint Atlantic	Date/Time Started	: 04/09/21 0915
Site	: Sparrow's Point	Date/Time Completed	: 04/09/21 1200
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 12.63
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 15.71
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 17' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 12.44' TOC
Driller	: J. Townsend	Depth to Product (ft)	: 48 Hr: 12.38' TOC
Drilling Equipment	: Sonic Rig	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)



TOC - Top of PVC Casing

AMSL - Above Mean Sea Level

ags - above ground surface

bgs - below ground surface

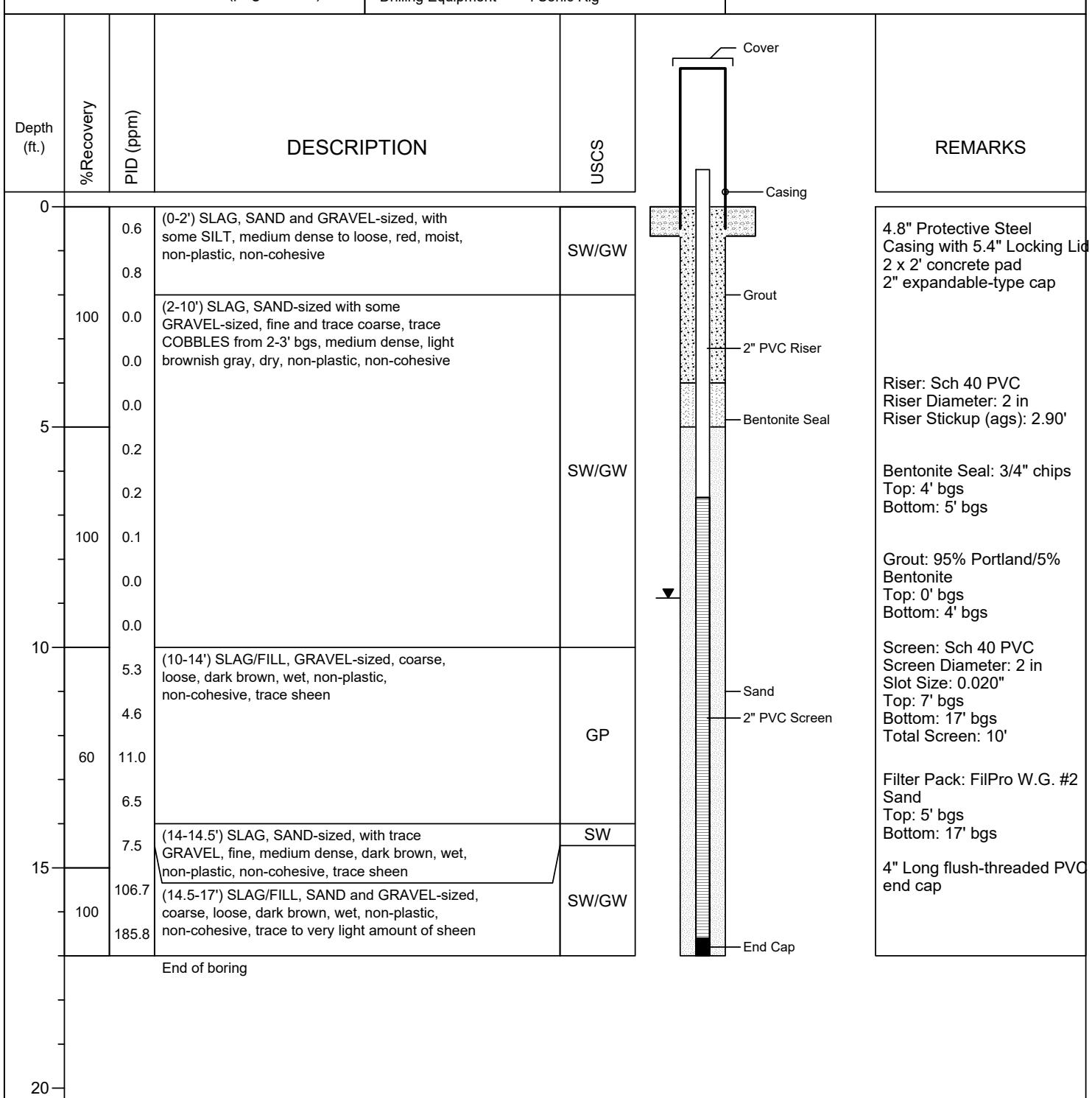


ARM Group LLC
Engineers and Scientists

Well ID: CO08B-PZM

(page 1 of 1)

Project Name	: COA NE Delineation	Northing (ft)	: 562041.35
Project Number	: 21010210	Easting (ft)	: 1456400.01
Client	: Tradepoint Atlantic	Date/Time Started	: 04/12/21 0945
Site	: Sparrow's Point	Date/Time Completed	: 04/12/21 1130
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 12.53
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 15.30
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 17' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 13.45' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		



TOC - Top of PVC Casing

AMSL - Above Mean Sea Level

ags - above ground surface

bgs - below ground surface

Monitoring Well Development

Date: 5/11/2021

Purged Amount: 33 gallons

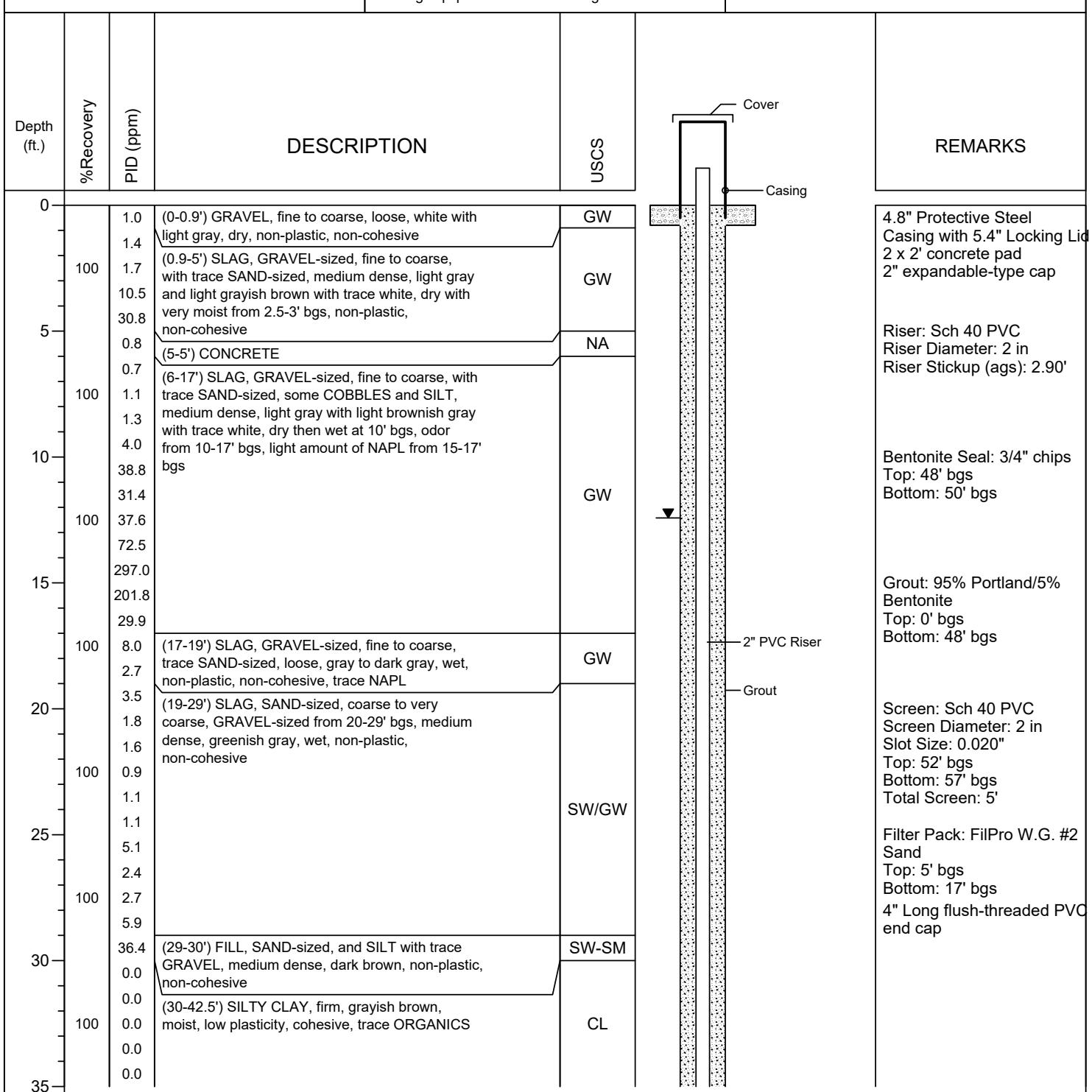


ARM Group LLC
Engineers and Scientists

Well ID: CO08C-PZM

(page 1 of 2)

Project Name	: COA NE Delineation	Northing (ft)	: 562401.69
Project Number	: 21010210	Easting (ft)	: 1456301.54
Client	: Tradepoint Atlantic	Date/Time Started	: 04/09/21 1200
Site	: Sparrow's Point	Date/Time Completed	: 04/09/21 1540
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 12.71
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 15.87
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 60' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 15.70' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		



TOC - Top of PVC Casing

AMSL - Above Mean Sea Level

ags - above ground surface

bgs - below ground surface

Monitoring Well Development

Date: 5/11/2021

Purged Amount: 45 gallons

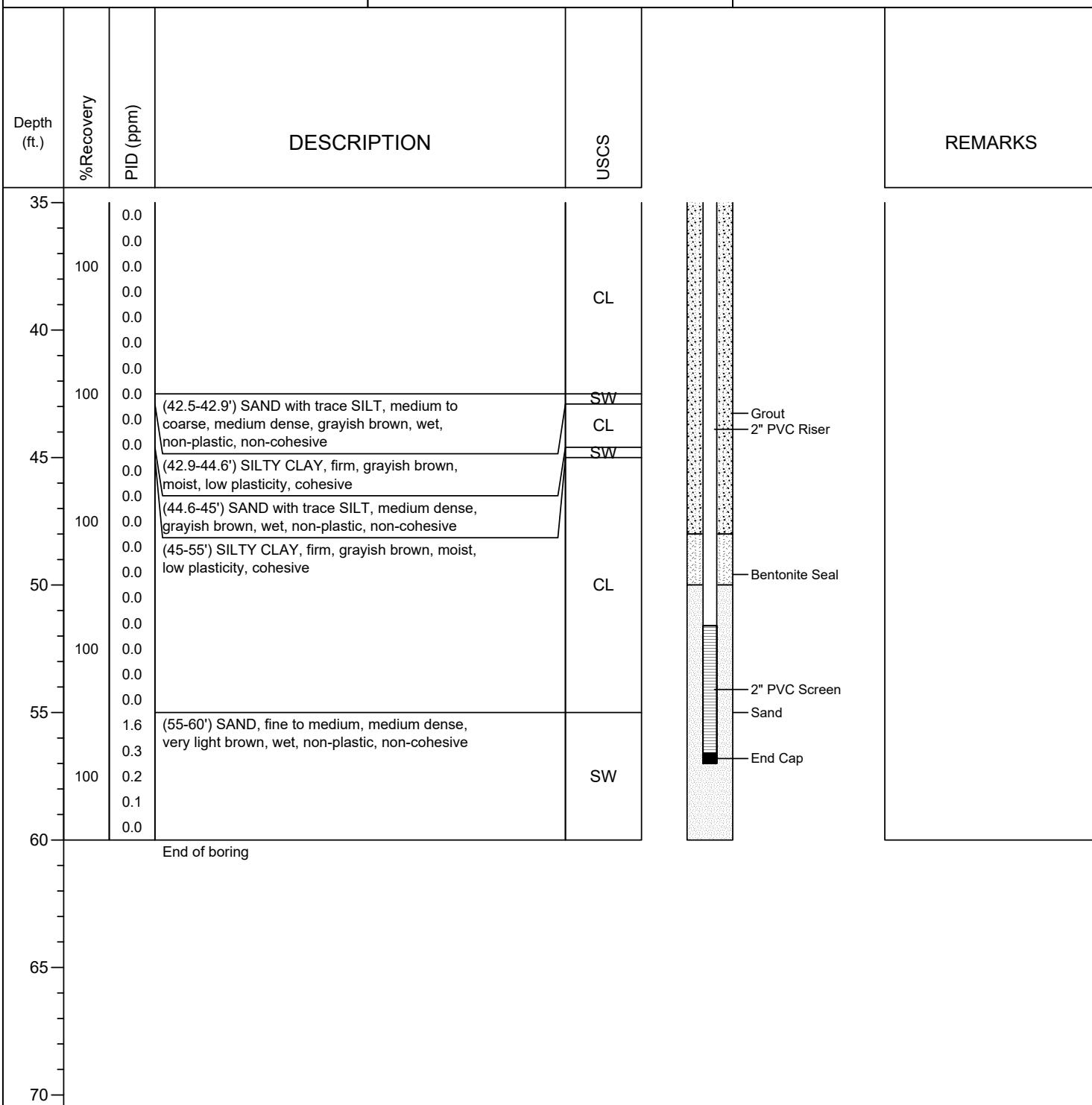


ARM Group LLC
Engineers and Scientists

Well ID: CO08C-PZM

(page 2 of 2)

Project Name	: COA NE Delineation	Northing (ft)	: 562401.69
Project Number	: 21010210	Easting (ft)	: 1456301.54
Client	: Tradepoint Atlantic	Date/Time Started	: 04/09/21 1200
Site	: Sparrow's Point	Date/Time Completed	: 04/09/21 1540
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 12.71
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 15.87
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 60' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 15.70' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		



TOC - Top of PVC Casing
AMSL - Above Mean Sea Level
ags - above ground surface
bgs - below ground surface

Monitoring Well Development
Date: 5/11/2021
Purged Amount: 45 gallons



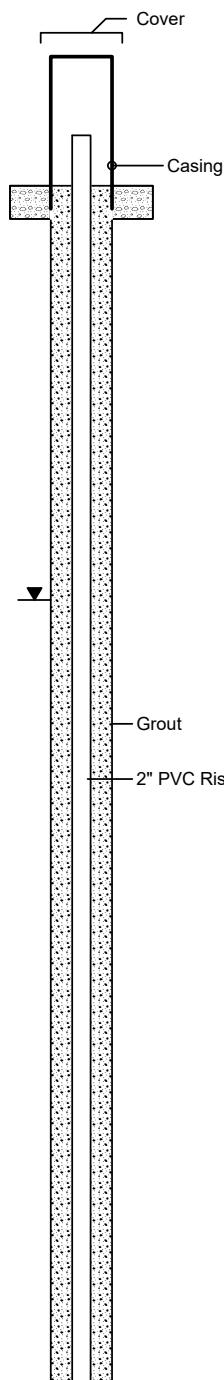
ARM Group LLC
Engineers and Scientists

Well ID: CO08D-PZM

(page 1 of 2)

Project Name	: COA NE Delineation	Northing (ft)	: 562039.24
Project Number	: 21010210	Easting (ft)	: 1456389.99
Client	: Tradepoint Atlantic	Date/Time Started	: 04/12/21 1145
Site	: Sparrow's Point	Date/Time Completed	: 04/13/21 1115
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 12.68
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 15.01
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 46.35' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 14.56' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		

Depth (ft.)	% Recovery	PID (ppm)	DESCRIPTION	USCS	REMARKS
0					
100	0.0	0.0	(0-8') FILL, SAND-sized, fine to medium, and SLAG/FILL, GRAVEL-sized, fine to coarse, medium dense to loose, brown, dry grading to moist, non-plastic, non-cohesive		
100	0.2	0.2			
100	0.4	0.4			
100	0.6	0.6			
100	0.2	0.2			
100	0.1	0.1			
100	2.0	2.0	(8-10') SLAG, SAND and GRAVEL-sized, with trace COBBLES, medium dense, grayish brown, dry, non-plastic, non-cohesive	SW/GW	
100	1.6	1.6			
100	1.5	1.5	(10-15') SLAG, SAND and GRAVEL-sized, medium dense, very dark brown to black, wet, non-plastic, non-cohesive, moderate sheen from 10-11' bgs	SW/GW	
100	1.8	1.8			
100	2.0	2.0			
100	3.3	3.3			
100	4.3	4.3			
136.0	4.2	4.2	(15-16') SLAG, SAND-sized, loose, black, wet, non-plastic, non-cohesive	SW	
100	32.2	32.2	(16-19') SLAG/FILL, GRAVEL-sized to SAND-sized, medium dense, very dark brown to black, wet, non-plastic, non-cohesive	SW/GW	
100	35.8	35.8			
118.5	0.0	0.0	(19-20') SLAG, SAND-sized, loose, black, wet, non-plastic, non-cohesive, small SHELL FRAGMENTS throughout	SW	
100	0.1	0.1	(20-21') SAND with CLAY, medium dense, very pale brown, wet, non-plastic, non-cohesive	SW-SC	
100	0.0	0.0	(21-23.5') SANDY CLAY, very firm, very pale brown, moist, low plasticity, cohesive	CL	
25	0.1	0.1	(23.5-25') CLAY with SAND, very firm, very pale brown, moist, low plasticity, cohesive	CL	
25	0.0	0.0	(25-30') CLAY, soft, brown, very moist, low plasticity, cohesive	CL	



TOC - Top of PVC Casing

AMSL - Above Mean Sea Level

ags - above ground surface

bgs - below ground surface

Monitoring Well Development

Date: 5/11/2021

Purged Amount: 50 gallons



ARM Group LLC
Engineers and Scientists

Well ID: CO08D-PZM

(page 2 of 2)

Project Name	: COA NE Delineation	Northing (ft)	: 562039.24
Project Number	: 21010210	Easting (ft)	: 1456389.99
Client	: Tradepoint Atlantic	Date/Time Started	: 04/12/21 1145
Site	: Sparrow's Point	Date/Time Completed	: 04/13/21 1115
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 12.68
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 15.01
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 46.35' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 14.56' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		

Depth (ft.)	% Recovery	PID (ppm)	DESCRIPTION	USCS	REMARKS
26	0.1				
100	0.1				
100	0.1				
100	0.1				
31	0.2		(30-40') Layers of SAND with SILT, medium dense, very pale brown, wet, non-plastic, non-cohesive alternating with layers of SILTY SAND, very fine to fine, very dense, very pale brown, moist, non-plastic, non-cohesive	CL	
100	0.1				
100	0.0				
100	0.0				
36	0.0			SW-SM/SM	
100	0.0				
100	0.0				
100	0.0				
41	0.0		(40-50') SAND, fine to medium, loose to medium dense, very pale brown, wet, non-plastic, non-cohesive	SW	
100	0.0				
100	0.0				
100	0.0				
46	0.0				
100	0.0				
100	0.0				
100	0.0				
51	0.1		End of boring		
51	0.0				
51	0.0				
51	0.0				

TOC - Top of PVC Casing
AMSL - Above Mean Sea Level
ags - above ground surface
bgs - below ground surface

Monitoring Well Development
Date: 5/11/2021
Purged Amount: 50 gallons

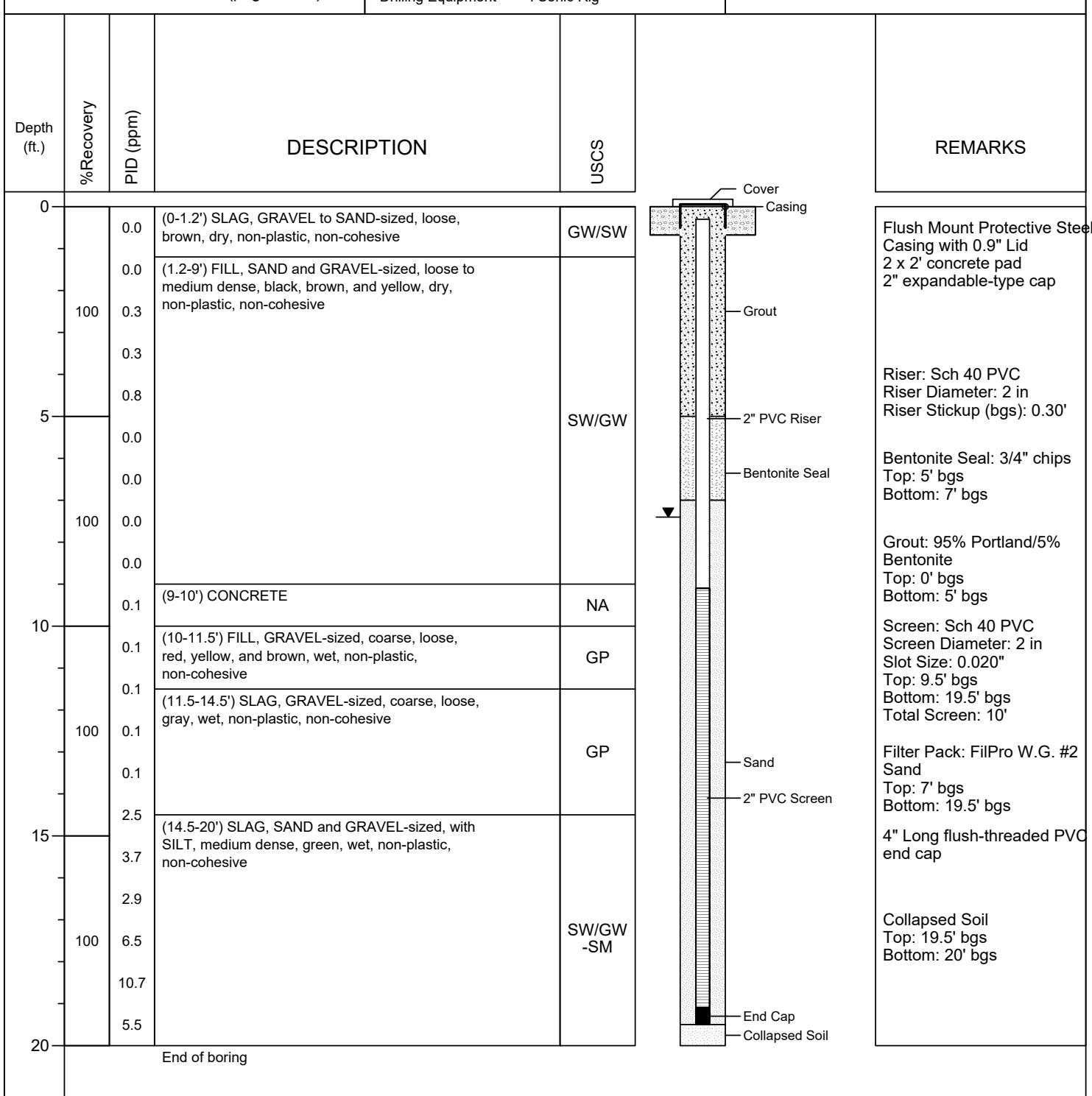


ARM Group LLC
Engineers and Scientists

Well ID: CO212A-PZM

(page 1 of 1)

Project Name	: COA NE Delineation	Northing (ft)	: 562397.73
Project Number	: 21010210	Easting (ft)	: 1456634.72
Client	: Tradepoint Atlantic	Date/Time Started	: 04/15/21 1145
Site	: Sparrow's Point	Date/Time Completed	: 04/15/21 1500
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 13.20
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 12.96
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 20' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 7.10' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		



TOC - Top of PVC Casing

AMSL - Above Mean Sea Level

bgs - above ground surface

bgs - below ground surface

Monitoring Well Development

Date: 5/13/2021

Purged Amount: 15 gallons

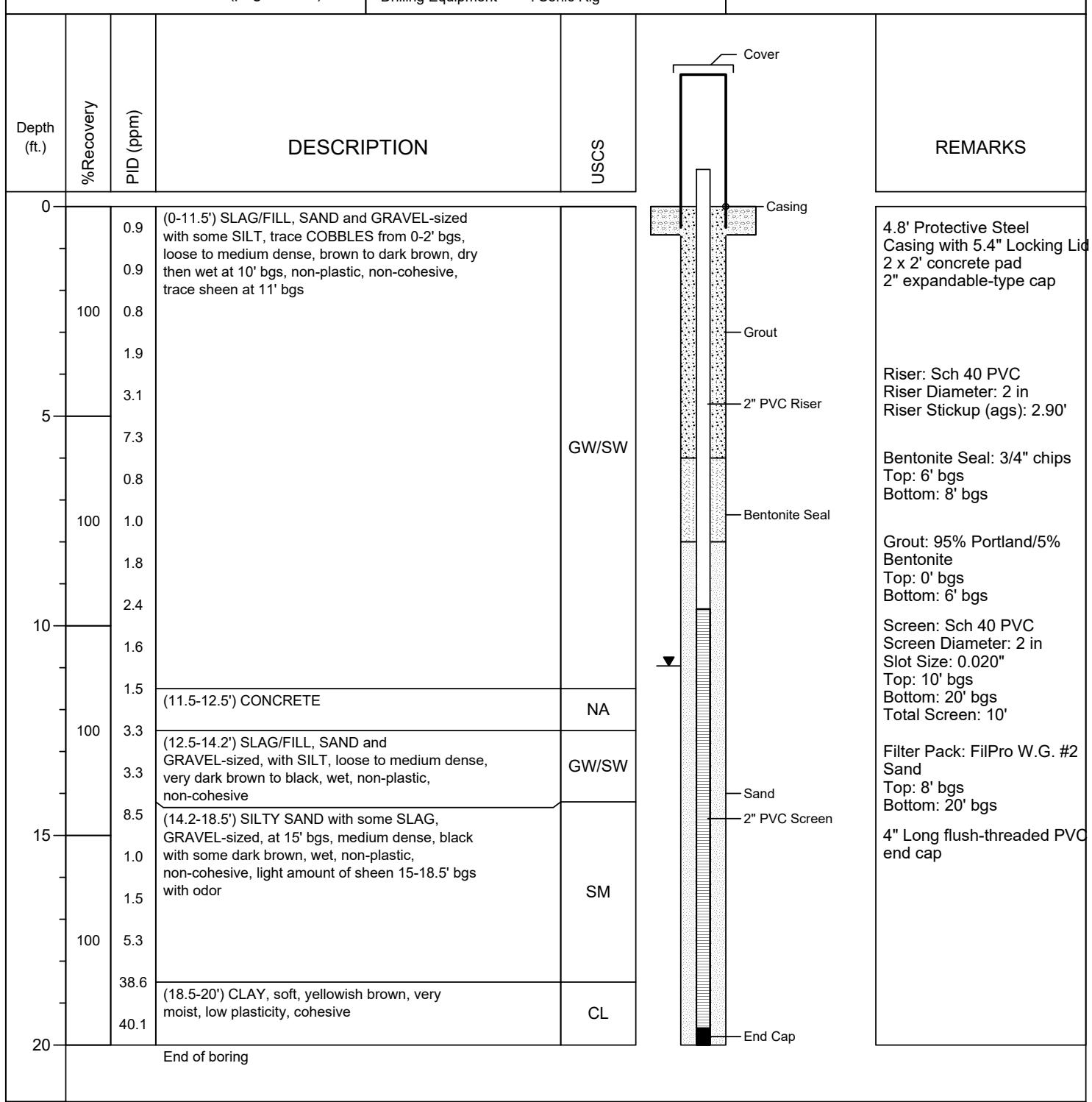


ARM Group LLC
Engineers and Scientists

Well ID: CO212B-PZM

(page 1 of 1)

Project Name	: COA NE Delineation	Northing (ft)	: 562056.42
Project Number	: 21010210	Easting (ft)	: 1456792.94
Client	: Tradepoint Atlantic	Date/Time Started	: 04/13/21 1132
Site	: Sparrow's Point	Date/Time Completed	: 04/13/21 1310
Borehole Location	: Parcel B10	Surf. Elev. (ft AMSL)	: 12.47
ARM Representative	: L. Perrin	TOC Elev. (ft AMSL)	: 15.33
Checked by	: M. Replogle, E.I.T.	Total Well Depth (ft)	: 20' bgs
Drilling Company	: Connelly	Depth to Water (ft)	: 48 Hr: 13.80' TOC
Driller	: J. Townsend	Bit/Auger Size (in.)	: 7.75 OD (4.25 ID)
Drilling Equipment	: Sonic Rig		



TOC - Top of PVC Casing

AMSL - Above Mean Sea Level

ags - above ground surface

bgs - below ground surface

ATTACHMENT 2

TABLE 1
MULTIPARAMETER CALIBRATION LOG

Project Name Area B Parcel B10 NE Delineation Date 5-19-21
 Weather 60s, Sunny
 Calibrated by L. Perrin Instrument (Serial Number) Horiba U-52 (2BOMSA4)
Lamotte 2020t (1223-1319)

Parameters	Morning Calibration	Morning Temperature	End of Day Calibration Check	End of Day Temperature
Specific Conductance Standard	4.49	54 F	4.52	86 F
Specific Conductance Standard #2	-		-	
pH (7)	-		-	
pH (4)	4.01		4.50	
pH(10)	-		-	
ORP Zobel Solution (240 mV)	-		223	
Dissolved Oxygen 100% water saturated air mg/L	8.60 ^Y		8.89 ^Y	
Dissolved Oxygen Zero Dissolved Oxygen Solution mg/L	-		-	
Barometric Pressure mm Hg	770.64		770.38	
Turbidity #1 (0 NTU)	0.0		0.64	
Turbidity #2 (1 NTU)	1.0		1.32	
Turbidity #3 (10 NTU)	10		9.21	

^YDissolved Oxygen were outside of the calibration acceptance criteria. Values displayed on field purge logs may be inaccurate.

TABLE 1
MULTIPARAMETER CALIBRATION LOG

Project Name Area B Parcel B10 NE Delineation Date 5-20-21
 Weather 70s, Sunny
 Calibrated by L. Perrin Instrument (Serial Number) Horiba U-52 (2BOMSA4)
Lamotte 2020t (1223-1319)

Parameters	Morning Calibration	Morning Temperature	End of Day Calibration Check	End of Day Temperature
Specific Conductance Standard	4.49	61 F	4.14	81 F
Specific Conductance Standard #2	-		-	
pH (7)	-		-	
pH (4)	4.01		4.11	
pH(10)	-		-	
ORP Zobel Solution (240 mV)	-		215	
Dissolved Oxygen 100% water saturated air mg/L	7.34 ^Y		5.50 ^Y	
Dissolved Oxygen Zero Dissolved Oxygen Solution mg/L	-		-	
Barometric Pressure mm Hg	771.40		772.92	
Turbidity #1 (0 NTU)	0.0		0.85	
Turbidity #2 (1 NTU)	1.0		1.03	
Turbidity #3 (10 NTU)	10		9.88	

^YDissolved Oxygen were outside of the calibration acceptance criteria. Values displayed on field purge logs may be inaccurate.

Low Flow Sampling Permanent Wells



ARM Group Inc.

Final Report - Page 1 of 1

Project Name: NE Delineation
Well Number: C005A-Pzm
Well Diameter (in): 2
Depth to Product (ft): NA
Depth to Water (ft): 13.73
Product Thickness (ft): NA
Depth to Bottom (ft): 21.20

Project Number: 31016212

Date: 5/19/31

One Well Volume (gal):

QED Controller Settings:

Flow Rate (mL/min) 300

Length of time Purged (min) 20

Condition of Pad/Cover:

RECORD

PURGING RECORD

MONITORING SAMPLE RECORD

MONITORING SAMPLE RECORD					
Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COΦ5A-P2M	1570	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2 - 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) Field Filtered	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) Field Filtered	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			
		Comments:			

Sampled By: CCP

Comments:

VOC + PAH

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft
ft x gal/ft = (gal)

Low Flow Sampling Permanent Wells



ARM Group Inc.

Project Name: NE Delineation
Well Number: C005B-PZM
Well Diameter (in): 2
Depth to Product (ft): Trace LNAPL
Depth to Water (ft): 7.85
Product Thickness (ft): Trace
Depth to Bottom (ft): 16.16

Project Number: 21010210
Date: 5/20/21
One Well Volume (gal): _____
QED Controller Settings: _____
Flow Rate (mL/min) 303
Length of time Purged (min) 30
Condition of Pad/Cover: Good / (initial)

PURGING RECORD

MONITORING SAMPLE RECORD

MONITORING SAMPLE RECORD				
Sample ID	Time Collected	Parameter/Order	Container	Perservative
COOPS-B-PZM	1140	TCL-VOCs	3 - 40 mL VOA	HCl
		TPH-GRO	3 - 40 mL VOA	HCl
		TPH-DRO	2 - 1 L Amber	none
		TCL-SVOCs	2 - 1 L Amber	none
		Oil & Grease	2 - 1 L Amber	HCl
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none
		Total Cyanide	1 - 250 mL Plastic	NaOH
		TAL-Metals & Mercury (Dissolved) Field Filtered	1 - 250 mL Plastic	HNO3
		Hexavalent Chromium (Dissolved) Field Filtered	1 - 250 mL Plastic	none
		PCB	2 - 1 L Amber	None
		Matrix Spike		N
		Duplicate		N
		Comments:		

Sampled By: C.LP

Comments:

VDCS + PATH

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

Low Flow Sampling Permanent Wells



ARM Group Inc.

Glendale High School, Glendale, California

Project Name: NG delineation
Well Number: C005C-P2M
Well Diameter (in): 2
Depth to Product (ft): NA
Depth to Water (ft): 14.58
Product Thickness (ft): NA
Depth to Bottom (ft): 31.1-3

Project Number: 201020
Date: 5/19/21

One Well Volume (gal) -

OED Controller Settings:

Flow Rate (mL/min)

Flow Rate (mL/min) 303
Length of time 5 min

Length of time Purged (min) 30

Condition of Pad/Cover:

RECORD

PURGING RECORD

MONITORING SAMPLE RECORD

STORING SAMPLE RECORD					
Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
CDPS-C-PRM	1355	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2 - 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) Field Filtered	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) Field Filtered	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			
		Comments:			

Sampled By: CCP

Comments:

Voks + PATT

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft
ft x gal/ft = (gal)

**Low Flow Sampling
Permanent Wells**

ARM Group Inc.

Project Name:	NE delineation	Project Number:	21010210
Well Number:	C008A-P2M	Date:	5/20/21
Well Diameter (in):	2	One Well Volume (gal):	
Depth to Product (ft):	13.52	QED Controller Settings:	
Depth to Water (ft):	13.59	Flow Rate (mL/min)	
Product Thickness (ft):	0.07	Length of time Purged (min)	NA
Depth to Bottom (ft):	20.11	Condition of Pad/Cover:	NA Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
<i>Purged 3 well volumes and sampled per E. Magdar due to NAPL</i>									

Low Flow Sampling Permanent Wells



ARM Group Inc.

10 *Bank of America, Morgan Stanley, and others*

Project Name: NE Dehydration
Well Number: C008B-Pzm
Well Diameter (in): 2
Depth to Product (ft): NA
Depth to Water (ft): 14.09
Product Thickness (ft): NA
Depth to Bottom (ft): 19.15

Project Number: 21010210
Date: 5/19/21

One Well Volume (gal):

QED Controller Settings:

Flow Rate (mL/min)

Length of time Purged (min)

Condition of Pad/Cover:

Condition of Pad/Cover: Good / Good
NG RECORD

PURGING RECORD

MONITORING SAMPLE RECORD

MONITORING SAMPLE RECORD					
Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COP8B-PZM	1200	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2 - 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) Field Filtered	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) Field Filtered	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			N
		Duplicate			Y
		Comments:			

Sampled By: LCP

Comments:

Duplicate

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft

Low Flow Sampling Permanent Wells



ARM Group Inc.

Figure 12. Estimated average age at first marriage for men and women.

Project Name: NE Petroleum
Well Number: CO 08C-PZM
Well Diameter (in): 2
Depth to Product (ft): NA
Depth to Water (ft): 1610
Product Thickness (ft): NA
Depth to Bottom (ft): 61.49

Project Number: 3-81831D

Date: 5/19/21

One Well Volume (gal): _____

QED Controller Settings: _____

Flow Rate (mL/min) 303

Length of time Purged (min) 20

Condition of Pad/Cover: Good

RECORD

Specific Conductance Dissolved

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
807	0.0	16.19	23.02	4.07	1.93		247	24.7	
812	0.4	16.48	22.37	4.20	1.95		240	17.5	
817	0.8	16.59	21.90	4.32	1.97		239	13.1	
822	1.2	16.71	21.32	4.42	1.85		238	12.4	
827	1.6	16.87	21.03	4.48	1.86		236	10.9	

MONITORING SAMPLE RECORD

MONITORING SAMPLE RECORD					
Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COP8C-P2M	830	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2 - 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) Field Filtered	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) Field Filtered	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			N
		Duplicate			N
		Comments:			

Sampled By: CP

Comments:

VOC + PATH

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft
 $\text{ft} \times \text{gal/ft} = \text{(gal)}$

Low Flow Sampling Permanent Wells



ARM Group Inc.

Learn more about the [new features](#) in the latest version.

Project Name: NE Detonation
Well Number: C008D-PZM
Well Diameter (in): 2
Depth to Product (ft): NA
Depth to Water (ft): 15.26
Product Thickness (ft): NA
Depth to Bottom (ft): 48.12

Project Number: 21010210
Date: 5/19/21

One Well Volume (gal): _____

QED Controller Settings:

Flow Rate (mL/min)

Length of time Purged (min) 30

Condition of Pad/Cover:

NG RECORD

PURGING RECORD

MONITORING SAMPLE RECORD

MONITORING SAMPLE RECORD					
Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
COP85PM	1025	TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2 - 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) Field Filtered	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) Field Filtered	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			Y
		Duplicate			N
		Comments:			

Sampled By: CP

Comments:

VOCs + PATH

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft
ft x _____ gal/ft = _____ (gal)

Low Flow Sampling Permanent Wells



ARM Group Inc.

Project Name: NE Del Norte
Well Number: CO212A-PZM
Well Diameter (in): 7
Depth to Product (ft): NA
Depth to Water (ft): 7.94
Product Thickness (ft): NA
Depth to Bottom (ft): 19.43

Project Number: 21010210
Date: 5/20/21

One Well Volume (gal):

OED Controller Settings

Flow Rate (ml/min)

Flow Rate (mL/min)

Length of time Purged (min) 30

Condition of Pad/Cover:

RECORD

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
819	0.0	7.94	23.90	4.51	1.99				
824	0.55	7.94	23.08	8.08	1.99		239	21.6	
829	1.10	7.94	22.33	9.01	1.97		126	14.7	
834	1.165	7.94	21.93	9.25	1.97		66	10.2	
839	2.20	7.94	21.63	9.39	1.99		42	7.12	
844	2.75	7.94	21.64	9.42	1.98		8	6.41	
849	3.30	7.94	21.67	9.52	1.98		11	5.76	
							6	5.43	

MONITORING SAMPLE RECORD

MONITORING SAMPLE RECORD					
Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
C0212A-PCM 855		TCL-VOCs	3 - 40 mL VOA	HCl	
		TPH-GRO	3 - 40 mL VOA	HCl	
		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2 - 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved) Field Filtered	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (Dissolved) Field Filtered	1 - 250 mL Plastic	none	
		PCB	2 - 1 L Amber	None	
		Matrix Spike			
		Duplicate			
		Comments:			

Sampled By: Laf

Comments:

Vocs + PATH

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft
 $\text{ft} \times \text{gal/ft} = \text{gal}$

**Low Flow Sampling
Permanent Wells**

ARM Group Inc.

Project Name: NE Petroleum
 Well Number: CO212B-PZM
 Well Diameter (in): 2
 Depth to Product (ft): 22.37
 Depth to Water (ft): 15.45
 Product Thickness (ft): 0.30
 Depth to Bottom (ft): 22.67

Project Number: 21010210
 Date: 5/20/21

One Well Volume (gal):

QED Controller Settings:

Flow Rate (mL/min)

Length of time Purged (min)

Condition of Pad/Cover:

NA
NA
Good / Good

PURGING RECORD

Time	Volume Purged (gallons)	DTW (feet)	Temp (°C)	pH (s.u.) ± 0.1	Specific Conductance (ms/cm) ± 3%	Dissolved Oxygen (mg/L) ± 0.3	ORP (mV) ± 10	Turbidity (NTU) ± 10% or < 5	Comments
<i>NAPL Sample Only</i>									

MONITORING SAMPLE RECORD

Sample ID	Time Collected	Parameter/Order	Container	Perservative	Collected?
<u>Turkelson</u>		TCL-VOCs	3 - 40 mL VOA	HCl	
<u>CO212B-PZM</u>	<u>10/15</u>	TPH-GRO	3 - 40 mL VOA	HCl	
<u>D NAPL</u>		TPH-DRO	2 - 1 L Amber	none	
		TCL-SVOCs	2 - 1 L Amber	none	
		Oil & Grease	2 - 1 L Amber	HCl	
		TAL-Metals & Mercury (total)	1 - 250 mL Plastic	HNO3	
		Hexavalent Chromium (total)	1 - 250 mL Plastic	none	
		Total Cyanide	1 - 250 mL Plastic	NaOH	
		TAL-Metals & Mercury (Dissolved)	1 - 250 mL Plastic	HNO3	
		Field Filtered			
		Hexavalent Chromium (Dissolved)	1 - 250 mL Plastic	none	
		Field Filtered			
		PCB	2 - 1 L Amber	None	
Matrix Spike					
Duplicate					

Sampled By: LLP

Comments:

NAPL sample

Casing Volume: 1" I.D. = 0.041 gal/ft - 2" I.D. = 0.163 gal/ft - 4" I.D. = 0.653 gal/ft - 6" I.D. = 1.47 gal/ft
 ft x _____ gal/ft = _____ (gal)

ATTACHMENT 3

May 27, 2021

Mr. Bob Tworkowski
Tradepoint Atlantic
1600 Sparrow's Point Boulevard
Sparrows Point, MD 21219

RE: Project: NE Delineation
Pace Project No.: 30421666

Dear Mr. Tworkowski:

Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
• Pace Analytical Services - Greensburg

This project follows the April 5, 2016 revision 3 Quality Assurance Project Plan for Sparrows Point Terminal Site, Sparrows Point, MD prepared for EnviroAnalytics Group and is not for PA DEP compliance reporting.

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

Sincerely,



Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

cc: Ms. Penny Gardner, Environmental Data Quality, Inc.
J.Price, ARM Group Inc.
Mr. Stewart Kabis, ARM Group Inc.
Mr. Eric S. Magdar, ARM Group Inc.
Ms. Shawne M. Rodgers, Environmental Data Quality, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: NE Delineation
 Pace Project No.: 30421666

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601	Missouri Certification #: 235
ANAB DOD-ELAP Rad Accreditation #: L2417	Montana Certification #: Cert0082
Alabama Certification #: 41590	Nebraska Certification #: NE-OS-29-14
Arizona Certification #: AZ0734	Nevada Certification #: PA014572018-1
Arkansas Certification	New Hampshire/TNI Certification #: 297617
California Certification #: 04222CA	New Jersey/TNI Certification #: PA051
Colorado Certification #: PA01547	New Mexico Certification #: PA01457
Connecticut Certification #: PH-0694	New York/TNI Certification #: 10888
Delaware Certification	North Carolina Certification #: 42706
EPA Region 4 DW Rad	North Dakota Certification #: R-190
Florida/TNI Certification #: E87683	Ohio EPA Rad Approval: #41249
Georgia Certification #: C040	Oregon/TNI Certification #: PA200002-010
Florida: Cert E871149 SEKS WET	Pennsylvania/TNI Certification #: 65-00282
Guam Certification	Puerto Rico Certification #: PA01457
Hawaii Certification	Rhode Island Certification #: 65-00282
Idaho Certification	South Dakota Certification
Illinois Certification	Tennessee Certification #: 02867
Indiana Certification	Texas/TNI Certification #: T104704188-17-3
Iowa Certification #: 391	Utah/TNI Certification #: PA014572017-9
Kansas/TNI Certification #: E-10358	USDA Soil Permit #: P330-17-00091
Kentucky Certification #: KY90133	Vermont Dept. of Health: ID# VT-0282
KY WW Permit #: KY0098221	Virgin Island/PADEP Certification
KY WW Permit #: KY0000221	Virginia/VELAP Certification #: 9526
Louisiana DHH/TNI Certification #: LA180012	Washington Certification #: C868
Louisiana DEQ/TNI Certification #: 4086	West Virginia DEP Certification #: 143
Maine Certification #: 2017020	West Virginia DHHR Certification #: 9964C
Maryland Certification #: 308	Wisconsin Approve List for Rad
Massachusetts Certification #: M-PA1457	Wyoming Certification #: 8TMS-L
Michigan/PADEP Certification #: 9991	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: NE Delineation
 Pace Project No.: 30421666

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30421666001	Trip Blank	Water	05/19/21 00:01	05/19/21 22:15
30421666002	CO08C-PZM	Water	05/19/21 08:30	05/19/21 22:15
30421666003	CO08D-PZM	Water	05/19/21 10:25	05/19/21 22:15
30421666004	CO08B-PZM	Water	05/19/21 12:00	05/19/21 22:15
30421666005	CO05C-PZM	Water	05/19/21 13:55	05/19/21 22:15
30421666006	Duplicate	Water	05/19/21 00:01	05/19/21 22:15
30421666007	CO05A-PZM	Water	05/19/21 15:10	05/19/21 22:15

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: NE Delineation
Pace Project No.: 30421666

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30421666001	Trip Blank	EPA 8260B	LEL	55	PASI-PA
30421666002	CO08C-PZM	EPA 8260B	LEL	55	PASI-PA
30421666003	CO08D-PZM	EPA 8260B	LEL	55	PASI-PA
30421666004	CO08B-PZM	EPA 8260B	LEL	55	PASI-PA
30421666005	CO05C-PZM	EPA 8260B	LEL	55	PASI-PA
30421666006	Duplicate	EPA 8260B	LEL	55	PASI-PA
30421666007	CO05A-PZM	EPA 8260B	LEL	55	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: NE Delineation
Pace Project No.: 30421666

Method: EPA 8260B
Description: 8260B MSV
Client: Tradepoint Atlantic
Date: May 27, 2021

General Information:

7 samples were analyzed for EPA 8260B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 449383

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- BLANK (Lab ID: 2168605)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- CO05A-PZM (Lab ID: 30421666007)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- CO08B-PZM (Lab ID: 30421666004)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- CO08C-PZM (Lab ID: 30421666002)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: NE Delineation
Pace Project No.: 30421666

Method: EPA 8260B
Description: 8260B MSV
Client: Tradepoint Atlantic
Date: May 27, 2021

QC Batch: 449383

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- Chloroethane
- Dichlorodifluoromethane
- Isopropylbenzene (Cumene)
- Styrene
- CO08D-PZM (Lab ID: 30421666003)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- Duplicate (Lab ID: 30421666006)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- LCS (Lab ID: 2168606)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- MS (Lab ID: 2168607)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- MSD (Lab ID: 2168608)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: NE Delineation
Pace Project No.: 30421666

Method: EPA 8260B
Description: 8260B MSV
Client: Tradepoint Atlantic
Date: May 27, 2021

QC Batch: 449383

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- 1,2-Dichlorobenzene
- Bromodichloromethane
- Chloroethane
- Dichlorodifluoromethane
- Isopropylbenzene (Cumene)
- Styrene
- Trip Blank (Lab ID: 30421666001)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene

QC Batch: 449751

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- BLANK (Lab ID: 2170304)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- CO05C-PZM (Lab ID: 30421666005)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- LCS (Lab ID: 2170305)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: NE Delineation
Pace Project No.: 30421666

Method: EPA 8260B
Description: 8260B MSV
Client: Tradepoint Atlantic
Date: May 27, 2021

QC Batch: 449751

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- Isopropylbenzene (Cumene)
- Styrene

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 449383

CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

- BLANK (Lab ID: 2168605)
 - Bromomethane
- CO05A-PZM (Lab ID: 30421666007)
 - Bromomethane
- CO08B-PZM (Lab ID: 30421666004)
 - Bromomethane
- CO08C-PZM (Lab ID: 30421666002)
 - Bromomethane
- CO08D-PZM (Lab ID: 30421666003)
 - Bromomethane
- Duplicate (Lab ID: 30421666006)
 - Bromomethane
- LCS (Lab ID: 2168606)
 - Bromomethane
- MS (Lab ID: 2168607)
 - Bromomethane
- MSD (Lab ID: 2168608)
 - Bromomethane
- Trip Blank (Lab ID: 30421666001)
 - Bromomethane

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: NE Delineation
Pace Project No.: 30421666

Method: EPA 8260B
Description: 8260B MSV
Client: Tradepoint Atlantic
Date: May 27, 2021

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 449383

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30421666003

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2168607)
- 4-Methyl-2-pentanone (MIBK)

R1: RPD value was outside control limits.

- MSD (Lab ID: 2168608)
- Bromomethane

QC Batch: 449751

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: Trip Blank	Lab ID: 30421666001	Collected: 05/19/21 00:01	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
Acetone	10.0 U	ug/L	10.0	5.6	1		05/24/21 16:35	67-64-1	
Benzene	1.0 U	ug/L	1.0	0.34	1		05/24/21 16:35	71-43-2	
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		05/24/21 16:35	75-27-4	IH
Bromoform	1.0 U	ug/L	1.0	0.56	1		05/24/21 16:35	75-25-2	
Bromomethane	1.0 U	ug/L	1.0	0.73	1		05/24/21 16:35	74-83-9	CL
2-Butanone (MEK)	10.0 U	ug/L	10.0	1.5	1		05/24/21 16:35	78-93-3	
Carbon disulfide	1.0 U	ug/L	1.0	0.32	1		05/24/21 16:35	75-15-0	
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		05/24/21 16:35	56-23-5	
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		05/24/21 16:35	108-90-7	
Chloroethane	1.0 U	ug/L	1.0	0.64	1		05/24/21 16:35	75-00-3	IH
Chloroform	1.0 U	ug/L	1.0	0.39	1		05/24/21 16:35	67-66-3	
Chloromethane	1.0 U	ug/L	1.0	0.40	1		05/24/21 16:35	74-87-3	
Cyclohexane	10.0 U	ug/L	10.0	0.33	1		05/24/21 16:35	110-82-7	
1,2-Dibromo-3-chloropropane	5.0 U	ug/L	5.0	0.55	1		05/24/21 16:35	96-12-8	
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		05/24/21 16:35	124-48-1	
1,2-Dibromoethane (EDB)	1.0 U	ug/L	1.0	0.44	1		05/24/21 16:35	106-93-4	
1,2-Dichlorobenzene	1.0 U	ug/L	1.0	0.38	1		05/24/21 16:35	95-50-1	IH
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		05/24/21 16:35	541-73-1	
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		05/24/21 16:35	106-46-7	
Dichlorodifluoromethane	1.0 U	ug/L	1.0	0.63	1		05/24/21 16:35	75-71-8	IH
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.24	1		05/24/21 16:35	75-34-3	
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		05/24/21 16:35	107-06-2	
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		05/24/21 16:35	540-59-0	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		05/24/21 16:35	75-35-4	
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		05/24/21 16:35	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		05/24/21 16:35	156-60-5	
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		05/24/21 16:35	78-87-5	
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		05/24/21 16:35	10061-01-5	
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		05/24/21 16:35	10061-02-6	
Ethylbenzene	1.0 U	ug/L	1.0	0.40	1		05/24/21 16:35	100-41-4	
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		05/24/21 16:35	591-78-6	
Isopropylbenzene (Cumene)	1.0 U	ug/L	1.0	0.47	1		05/24/21 16:35	98-82-8	IH
Methyl acetate	5.0 U	ug/L	5.0	0.55	1		05/24/21 16:35	79-20-9	
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		05/24/21 16:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		05/24/21 16:35	108-10-1	
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		05/24/21 16:35	1634-04-4	
Styrene	1.0 U	ug/L	1.0	0.33	1		05/24/21 16:35	100-42-5	IH
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		05/24/21 16:35	79-34-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		05/24/21 16:35	127-18-4	
Toluene	1.0 U	ug/L	1.0	0.32	1		05/24/21 16:35	108-88-3	
1,2,3-Trichlorobenzene	2.0 U	ug/L	2.0	0.89	1		05/24/21 16:35	87-61-6	
1,2,4-Trichlorobenzene	1.0 U	ug/L	1.0	0.73	1		05/24/21 16:35	120-82-1	IH
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		05/24/21 16:35	71-55-6	
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		05/24/21 16:35	79-00-5	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		05/24/21 16:35	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: Trip Blank		Lab ID: 30421666001		Collected:	05/19/21 00:01	Received:	05/19/21 22:15	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Greensburg									
Trichlorofluoromethane	1.0 U	ug/L	1.0	0.51	1		05/24/21 16:35	75-69-4	
1,1,2-Trichlorotrifluoroethane	50.0 U	ug/L	50.0	3.0	1		05/24/21 16:35	76-13-1	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		05/24/21 16:35	75-01-4	
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		05/24/21 16:35	1330-20-7	
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		05/24/21 16:35	179601-23-1	
o-Xylene	1.0 U	ug/L	1.0	0.41	1		05/24/21 16:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	70-130		1		05/24/21 16:35	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1		05/24/21 16:35	17060-07-0	
Toluene-d8 (S)	91	%.	70-130		1		05/24/21 16:35	2037-26-5	
Dibromofluoromethane (S)	113	%.	70-130		1		05/24/21 16:35	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: CO08C-PZM	Lab ID: 30421666002	Collected: 05/19/21 08:30	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Acetone	10.0 U	ug/L	10.0	5.6	1		05/24/21 22:08	67-64-1	
Benzene	1.0 U	ug/L	1.0	0.34	1		05/24/21 22:08	71-43-2	
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		05/24/21 22:08	75-27-4	IH
Bromoform	1.0 U	ug/L	1.0	0.56	1		05/24/21 22:08	75-25-2	
Bromomethane	1.0 U	ug/L	1.0	0.73	1		05/24/21 22:08	74-83-9	CL
2-Butanone (MEK)	10.0 U	ug/L	10.0	1.5	1		05/24/21 22:08	78-93-3	
Carbon disulfide	3.7	ug/L	1.0	0.32	1		05/24/21 22:08	75-15-0	
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		05/24/21 22:08	56-23-5	
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		05/24/21 22:08	108-90-7	
Chloroethane	1.0 U	ug/L	1.0	0.64	1		05/24/21 22:08	75-00-3	IH
Chloroform	0.88J	ug/L	1.0	0.39	1		05/24/21 22:08	67-66-3	
Chloromethane	1.0 U	ug/L	1.0	0.40	1		05/24/21 22:08	74-87-3	
Cyclohexane	10.0 U	ug/L	10.0	0.33	1		05/24/21 22:08	110-82-7	
1,2-Dibromo-3-chloropropane	5.0 U	ug/L	5.0	0.55	1		05/24/21 22:08	96-12-8	
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		05/24/21 22:08	124-48-1	
1,2-Dibromoethane (EDB)	1.0 U	ug/L	1.0	0.44	1		05/24/21 22:08	106-93-4	
1,2-Dichlorobenzene	1.0 U	ug/L	1.0	0.38	1		05/24/21 22:08	95-50-1	IH
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		05/24/21 22:08	541-73-1	
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		05/24/21 22:08	106-46-7	
Dichlorodifluoromethane	1.0 U	ug/L	1.0	0.63	1		05/24/21 22:08	75-71-8	IH
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.24	1		05/24/21 22:08	75-34-3	
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		05/24/21 22:08	107-06-2	
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		05/24/21 22:08	540-59-0	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		05/24/21 22:08	75-35-4	
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		05/24/21 22:08	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		05/24/21 22:08	156-60-5	
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		05/24/21 22:08	78-87-5	
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		05/24/21 22:08	10061-01-5	
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		05/24/21 22:08	10061-02-6	
Ethylbenzene	1.0 U	ug/L	1.0	0.40	1		05/24/21 22:08	100-41-4	
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		05/24/21 22:08	591-78-6	
Isopropylbenzene (Cumene)	1.0 U	ug/L	1.0	0.47	1		05/24/21 22:08	98-82-8	IH
Methyl acetate	5.0 U	ug/L	5.0	0.55	1		05/24/21 22:08	79-20-9	
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		05/24/21 22:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		05/24/21 22:08	108-10-1	
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		05/24/21 22:08	1634-04-4	
Styrene	1.0 U	ug/L	1.0	0.33	1		05/24/21 22:08	100-42-5	IH
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		05/24/21 22:08	79-34-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		05/24/21 22:08	127-18-4	
Toluene	1.0 U	ug/L	1.0	0.32	1		05/24/21 22:08	108-88-3	
1,2,3-Trichlorobenzene	2.0 U	ug/L	2.0	0.89	1		05/24/21 22:08	87-61-6	
1,2,4-Trichlorobenzene	1.0 U	ug/L	1.0	0.73	1		05/24/21 22:08	120-82-1	IH
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		05/24/21 22:08	71-55-6	
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		05/24/21 22:08	79-00-5	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		05/24/21 22:08	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: CO08C-PZM	Lab ID: 30421666002	Collected: 05/19/21 08:30	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
Trichlorofluoromethane	1.0 U	ug/L	1.0	0.51	1		05/24/21 22:08	75-69-4	
1,1,2-Trichlorotrifluoroethane	50.0 U	ug/L	50.0	3.0	1		05/24/21 22:08	76-13-1	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		05/24/21 22:08	75-01-4	
Xylene (Total)	2.4J	ug/L	3.0	1.4	1		05/24/21 22:08	1330-20-7	
m&p-Xylene	1.6J	ug/L	2.0	0.94	1		05/24/21 22:08	179601-23-1	
o-Xylene	0.77J	ug/L	1.0	0.41	1		05/24/21 22:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	70-130		1		05/24/21 22:08	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	70-130		1		05/24/21 22:08	17060-07-0	
Toluene-d8 (S)	93	%.	70-130		1		05/24/21 22:08	2037-26-5	
Dibromofluoromethane (S)	106	%.	70-130		1		05/24/21 22:08	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: CO08D-PZM	Lab ID: 30421666003	Collected: 05/19/21 10:25	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
Acetone	8.8J	ug/L	10.0	5.6	1		05/24/21 22:34	67-64-1	
Benzene	9.0	ug/L	1.0	0.34	1		05/24/21 22:34	71-43-2	
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		05/24/21 22:34	75-27-4	IH
Bromoform	1.0 U	ug/L	1.0	0.56	1		05/24/21 22:34	75-25-2	
Bromomethane	1.0 U	ug/L	1.0	0.73	1		05/24/21 22:34	74-83-9	CL,R1
2-Butanone (MEK)	10.0 U	ug/L	10.0	1.5	1		05/24/21 22:34	78-93-3	
Carbon disulfide	1.0 U	ug/L	1.0	0.32	1		05/24/21 22:34	75-15-0	
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		05/24/21 22:34	56-23-5	
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		05/24/21 22:34	108-90-7	
Chloroethane	1.0 U	ug/L	1.0	0.64	1		05/24/21 22:34	75-00-3	IH
Chloroform	8.7	ug/L	1.0	0.39	1		05/24/21 22:34	67-66-3	
Chloromethane	1.0 U	ug/L	1.0	0.40	1		05/24/21 22:34	74-87-3	
Cyclohexane	10.0 U	ug/L	10.0	0.33	1		05/24/21 22:34	110-82-7	
1,2-Dibromo-3-chloropropane	5.0 U	ug/L	5.0	0.55	1		05/24/21 22:34	96-12-8	
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		05/24/21 22:34	124-48-1	
1,2-Dibromoethane (EDB)	1.0 U	ug/L	1.0	0.44	1		05/24/21 22:34	106-93-4	
1,2-Dichlorobenzene	1.0 U	ug/L	1.0	0.38	1		05/24/21 22:34	95-50-1	IH
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		05/24/21 22:34	541-73-1	
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		05/24/21 22:34	106-46-7	
Dichlorodifluoromethane	1.0 U	ug/L	1.0	0.63	1		05/24/21 22:34	75-71-8	IH
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.24	1		05/24/21 22:34	75-34-3	
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		05/24/21 22:34	107-06-2	
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		05/24/21 22:34	540-59-0	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		05/24/21 22:34	75-35-4	
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		05/24/21 22:34	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		05/24/21 22:34	156-60-5	
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		05/24/21 22:34	78-87-5	
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		05/24/21 22:34	10061-01-5	
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		05/24/21 22:34	10061-02-6	
Ethylbenzene	1.0 U	ug/L	1.0	0.40	1		05/24/21 22:34	100-41-4	
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		05/24/21 22:34	591-78-6	
Isopropylbenzene (Cumene)	1.0 U	ug/L	1.0	0.47	1		05/24/21 22:34	98-82-8	IH
Methyl acetate	5.0 U	ug/L	5.0	0.55	1		05/24/21 22:34	79-20-9	
Methylene Chloride	1.2	ug/L	1.0	0.64	1		05/24/21 22:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		05/24/21 22:34	108-10-1	ML
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		05/24/21 22:34	1634-04-4	
Styrene	1.0 U	ug/L	1.0	0.33	1		05/24/21 22:34	100-42-5	IH
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		05/24/21 22:34	79-34-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		05/24/21 22:34	127-18-4	
Toluene	1.5	ug/L	1.0	0.32	1		05/24/21 22:34	108-88-3	
1,2,3-Trichlorobenzene	2.0 U	ug/L	2.0	0.89	1		05/24/21 22:34	87-61-6	
1,2,4-Trichlorobenzene	1.0 U	ug/L	1.0	0.73	1		05/24/21 22:34	120-82-1	IH
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		05/24/21 22:34	71-55-6	IH
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		05/24/21 22:34	79-00-5	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		05/24/21 22:34	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: CO08D-PZM	Lab ID: 30421666003	Collected: 05/19/21 10:25	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
Trichlorofluoromethane	1.0 U	ug/L	1.0	0.51	1		05/24/21 22:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	50.0 U	ug/L	50.0	3.0	1		05/24/21 22:34	76-13-1	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		05/24/21 22:34	75-01-4	
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		05/24/21 22:34	1330-20-7	
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		05/24/21 22:34	179601-23-1	
o-Xylene	1.0 U	ug/L	1.0	0.41	1		05/24/21 22:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	70-130		1		05/24/21 22:34	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1		05/24/21 22:34	17060-07-0	
Toluene-d8 (S)	93	%.	70-130		1		05/24/21 22:34	2037-26-5	
Dibromofluoromethane (S)	105	%.	70-130		1		05/24/21 22:34	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: CO08B-PZM	Lab ID: 30421666004	Collected: 05/19/21 12:00	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Acetone	10.0 U	ug/L	10.0	5.6	1		05/24/21 22:59	67-64-1	
Benzene	5240	ug/L	100	33.8	100		05/26/21 20:34	71-43-2	
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		05/24/21 22:59	75-27-4	IH
Bromoform	1.0 U	ug/L	1.0	0.56	1		05/24/21 22:59	75-25-2	
Bromomethane	1.0 U	ug/L	1.0	0.73	1		05/24/21 22:59	74-83-9	CL
2-Butanone (MEK)	10.0 U	ug/L	10.0	1.5	1		05/24/21 22:59	78-93-3	
Carbon disulfide	1.0 U	ug/L	1.0	0.32	1		05/24/21 22:59	75-15-0	
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		05/24/21 22:59	56-23-5	
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		05/24/21 22:59	108-90-7	
Chloroethane	1.0 U	ug/L	1.0	0.64	1		05/24/21 22:59	75-00-3	IH
Chloroform	1.0 U	ug/L	1.0	0.39	1		05/24/21 22:59	67-66-3	
Chloromethane	1.0 U	ug/L	1.0	0.40	1		05/24/21 22:59	74-87-3	
Cyclohexane	1.6J	ug/L	10.0	0.33	1		05/24/21 22:59	110-82-7	
1,2-Dibromo-3-chloropropane	5.0 U	ug/L	5.0	0.55	1		05/24/21 22:59	96-12-8	
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		05/24/21 22:59	124-48-1	
1,2-Dibromoethane (EDB)	1.0 U	ug/L	1.0	0.44	1		05/24/21 22:59	106-93-4	
1,2-Dichlorobenzene	1.0 U	ug/L	1.0	0.38	1		05/24/21 22:59	95-50-1	IH
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		05/24/21 22:59	541-73-1	
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		05/24/21 22:59	106-46-7	
Dichlorodifluoromethane	1.0 U	ug/L	1.0	0.63	1		05/24/21 22:59	75-71-8	IH
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.24	1		05/24/21 22:59	75-34-3	
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		05/24/21 22:59	107-06-2	
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		05/24/21 22:59	540-59-0	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		05/24/21 22:59	75-35-4	
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		05/24/21 22:59	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		05/24/21 22:59	156-60-5	
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		05/24/21 22:59	78-87-5	
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		05/24/21 22:59	10061-01-5	
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		05/24/21 22:59	10061-02-6	
Ethylbenzene	211	ug/L	1.0	0.40	1		05/24/21 22:59	100-41-4	
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		05/24/21 22:59	591-78-6	
Isopropylbenzene (Cumene)	6.6	ug/L	1.0	0.47	1		05/24/21 22:59	98-82-8	IH
Methyl acetate	5.0 U	ug/L	5.0	0.55	1		05/24/21 22:59	79-20-9	
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		05/24/21 22:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		05/24/21 22:59	108-10-1	
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		05/24/21 22:59	1634-04-4	
Styrene	143	ug/L	1.0	0.33	1		05/24/21 22:59	100-42-5	IH
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		05/24/21 22:59	79-34-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		05/24/21 22:59	127-18-4	
Toluene	2470	ug/L	100	31.7	100		05/26/21 20:34	108-88-3	
1,2,3-Trichlorobenzene	2.0 U	ug/L	2.0	0.89	1		05/24/21 22:59	87-61-6	
1,2,4-Trichlorobenzene	1.0 U	ug/L	1.0	0.73	1		05/24/21 22:59	120-82-1	IH
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		05/24/21 22:59	71-55-6	
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		05/24/21 22:59	79-00-5	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		05/24/21 22:59	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: CO08B-PZM	Lab ID: 30421666004	Collected: 05/19/21 12:00	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
Trichlorofluoromethane	1.0 U	ug/L	1.0	0.51	1		05/24/21 22:59	75-69-4	
1,1,2-Trichlorotrifluoroethane	50.0 U	ug/L	50.0	3.0	1		05/24/21 22:59	76-13-1	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		05/24/21 22:59	75-01-4	
Xylene (Total)	1480	ug/L	300	135	100		05/26/21 20:34	1330-20-7	
m&p-Xylene	969	ug/L	200	94.2	100		05/26/21 20:34	179601-23-1	
o-Xylene	506	ug/L	100	40.9	100		05/26/21 20:34	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%.	70-130		1		05/24/21 22:59	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1		05/24/21 22:59	17060-07-0	
Toluene-d8 (S)	93	%.	70-130		1		05/24/21 22:59	2037-26-5	
Dibromofluoromethane (S)	97	%.	70-130		1		05/24/21 22:59	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: CO05C-PZM	Lab ID: 30421666005	Collected: 05/19/21 13:55	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
Acetone	14.1	ug/L	10.0	5.6	1		05/26/21 18:02	67-64-1	M5
Benzene	3.8	ug/L	1.0	0.34	1		05/26/21 18:02	71-43-2	M5
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		05/26/21 18:02	75-27-4	IH,M5
Bromoform	1.0 U	ug/L	1.0	0.56	1		05/26/21 18:02	75-25-2	M5
Bromomethane	1.0 U	ug/L	1.0	0.73	1		05/26/21 18:02	74-83-9	M5
2-Butanone (MEK)	10.0 U	ug/L	10.0	1.5	1		05/26/21 18:02	78-93-3	M5
Carbon disulfide	0.86J	ug/L	1.0	0.32	1		05/26/21 18:02	75-15-0	M5
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		05/26/21 18:02	56-23-5	M5
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		05/26/21 18:02	108-90-7	M5
Chloroethane	1.0 U	ug/L	1.0	0.64	1		05/26/21 18:02	75-00-3	IH,M5
Chloroform	1.0 U	ug/L	1.0	0.39	1		05/26/21 18:02	67-66-3	M5
Chloromethane	1.0 U	ug/L	1.0	0.40	1		05/26/21 18:02	74-87-3	M5
Cyclohexane	10.0 U	ug/L	10.0	0.33	1		05/26/21 18:02	110-82-7	M5
1,2-Dibromo-3-chloropropane	5.0 U	ug/L	5.0	0.55	1		05/26/21 18:02	96-12-8	M5
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		05/26/21 18:02	124-48-1	M5
1,2-Dibromoethane (EDB)	1.0 U	ug/L	1.0	0.44	1		05/26/21 18:02	106-93-4	M5
1,2-Dichlorobenzene	1.0 U	ug/L	1.0	0.38	1		05/26/21 18:02	95-50-1	IH,M5
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		05/26/21 18:02	541-73-1	M5
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		05/26/21 18:02	106-46-7	M5
Dichlorodifluoromethane	1.0 U	ug/L	1.0	0.63	1		05/26/21 18:02	75-71-8	IH,M5
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.24	1		05/26/21 18:02	75-34-3	M5
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		05/26/21 18:02	107-06-2	M5
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		05/26/21 18:02	540-59-0	M5
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		05/26/21 18:02	75-35-4	M5
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		05/26/21 18:02	156-59-2	M5
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		05/26/21 18:02	156-60-5	M5
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		05/26/21 18:02	78-87-5	M5
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		05/26/21 18:02	10061-01-5	M5
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		05/26/21 18:02	10061-02-6	M5
Ethylbenzene	1.0	ug/L	1.0	0.40	1		05/26/21 18:02	100-41-4	M5
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		05/26/21 18:02	591-78-6	M5
Isopropylbenzene (Cumene)	1.0 U	ug/L	1.0	0.47	1		05/26/21 18:02	98-82-8	IH,M5
Methyl acetate	5.0 U	ug/L	5.0	0.55	1		05/26/21 18:02	79-20-9	M5
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		05/26/21 18:02	75-09-2	M5
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		05/26/21 18:02	108-10-1	M5
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		05/26/21 18:02	1634-04-4	M5
Styrene	1.0 U	ug/L	1.0	0.33	1		05/26/21 18:02	100-42-5	IH,M5
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		05/26/21 18:02	79-34-5	M5
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		05/26/21 18:02	127-18-4	M5
Toluene	0.47J	ug/L	1.0	0.32	1		05/26/21 18:02	108-88-3	M5
1,2,3-Trichlorobenzene	2.0 U	ug/L	2.0	0.89	1		05/26/21 18:02	87-61-6	M5
1,2,4-Trichlorobenzene	1.0 U	ug/L	1.0	0.73	1		05/26/21 18:02	120-82-1	IH,M5
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		05/26/21 18:02	71-55-6	IH,M5
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		05/26/21 18:02	79-00-5	M5
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		05/26/21 18:02	79-01-6	M5

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: CO05C-PZM	Lab ID: 30421666005	Collected: 05/19/21 13:55	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
Trichlorofluoromethane	1.0 U	ug/L	1.0	0.51	1		05/26/21 18:02	75-69-4	M5
1,1,2-Trichlorotrifluoroethane	50.0 U	ug/L	50.0	3.0	1		05/26/21 18:02	76-13-1	M5
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		05/26/21 18:02	75-01-4	M5
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		05/26/21 18:02	1330-20-7	M5
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		05/26/21 18:02	179601-23-1	M5
o-Xylene	1.0 U	ug/L	1.0	0.41	1		05/26/21 18:02	95-47-6	M5
Surrogates									
4-Bromofluorobenzene (S)	100	%.	70-130		1		05/26/21 18:02	460-00-4	M5
1,2-Dichloroethane-d4 (S)	108	%.	70-130		1		05/26/21 18:02	17060-07-0	M5
Toluene-d8 (S)	93	%.	70-130		1		05/26/21 18:02	2037-26-5	M5
Dibromofluoromethane (S)	111	%.	70-130		1		05/26/21 18:02	1868-53-7	M5

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: Duplicate	Lab ID: 30421666006	Collected: 05/19/21 00:01	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
Acetone	10.0 U	ug/L	10.0	5.6	1		05/24/21 23:49	67-64-1	
Benzene	5910	ug/L	100	33.8	100		05/26/21 20:59	71-43-2	
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		05/24/21 23:49	75-27-4	IH
Bromoform	1.0 U	ug/L	1.0	0.56	1		05/24/21 23:49	75-25-2	
Bromomethane	1.0 U	ug/L	1.0	0.73	1		05/24/21 23:49	74-83-9	CL
2-Butanone (MEK)	10.0 U	ug/L	10.0	1.5	1		05/24/21 23:49	78-93-3	
Carbon disulfide	1.0 U	ug/L	1.0	0.32	1		05/24/21 23:49	75-15-0	
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		05/24/21 23:49	56-23-5	
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		05/24/21 23:49	108-90-7	
Chloroethane	1.0 U	ug/L	1.0	0.64	1		05/24/21 23:49	75-00-3	IH
Chloroform	1.0 U	ug/L	1.0	0.39	1		05/24/21 23:49	67-66-3	
Chloromethane	1.0 U	ug/L	1.0	0.40	1		05/24/21 23:49	74-87-3	
Cyclohexane	1.5J	ug/L	10.0	0.33	1		05/24/21 23:49	110-82-7	
1,2-Dibromo-3-chloropropane	5.0 U	ug/L	5.0	0.55	1		05/24/21 23:49	96-12-8	
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		05/24/21 23:49	124-48-1	
1,2-Dibromoethane (EDB)	1.0 U	ug/L	1.0	0.44	1		05/24/21 23:49	106-93-4	
1,2-Dichlorobenzene	1.0 U	ug/L	1.0	0.38	1		05/24/21 23:49	95-50-1	IH
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		05/24/21 23:49	541-73-1	
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		05/24/21 23:49	106-46-7	
Dichlorodifluoromethane	1.0 U	ug/L	1.0	0.63	1		05/24/21 23:49	75-71-8	IH
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.24	1		05/24/21 23:49	75-34-3	
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		05/24/21 23:49	107-06-2	
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		05/24/21 23:49	540-59-0	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		05/24/21 23:49	75-35-4	
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		05/24/21 23:49	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		05/24/21 23:49	156-60-5	
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		05/24/21 23:49	78-87-5	
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		05/24/21 23:49	10061-01-5	
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		05/24/21 23:49	10061-02-6	
Ethylbenzene	216	ug/L	1.0	0.40	1		05/24/21 23:49	100-41-4	
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		05/24/21 23:49	591-78-6	
Isopropylbenzene (Cumene)	6.9	ug/L	1.0	0.47	1		05/24/21 23:49	98-82-8	IH
Methyl acetate	5.0 U	ug/L	5.0	0.55	1		05/24/21 23:49	79-20-9	
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		05/24/21 23:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		05/24/21 23:49	108-10-1	
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		05/24/21 23:49	1634-04-4	
Styrene	144	ug/L	1.0	0.33	1		05/24/21 23:49	100-42-5	IH
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		05/24/21 23:49	79-34-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		05/24/21 23:49	127-18-4	
Toluene	2810	ug/L	100	31.7	100		05/26/21 20:59	108-88-3	
1,2,3-Trichlorobenzene	2.0 U	ug/L	2.0	0.89	1		05/24/21 23:49	87-61-6	
1,2,4-Trichlorobenzene	1.0 U	ug/L	1.0	0.73	1		05/24/21 23:49	120-82-1	IH
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		05/24/21 23:49	71-55-6	
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		05/24/21 23:49	79-00-5	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		05/24/21 23:49	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: Duplicate		Lab ID: 30421666006		Collected:	05/19/21 00:01	Received:	05/19/21 22:15	Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV									
Analytical Method: EPA 8260B									
Pace Analytical Services - Greensburg									
Trichlorofluoromethane	1.0 U	ug/L	1.0	0.51	1		05/24/21 23:49	75-69-4	
1,1,2-Trichlorotrifluoroethane	50.0 U	ug/L	50.0	3.0	1		05/24/21 23:49	76-13-1	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		05/24/21 23:49	75-01-4	
Xylene (Total)	1670	ug/L	300	135	100		05/26/21 20:59	1330-20-7	
m&p-Xylene	1110	ug/L	200	94.2	100		05/26/21 20:59	179601-23-1	
o-Xylene	551	ug/L	100	40.9	100		05/26/21 20:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%.	70-130		1		05/24/21 23:49	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	70-130		1		05/24/21 23:49	17060-07-0	
Toluene-d8 (S)	103	%.	70-130		1		05/24/21 23:49	2037-26-5	
Dibromofluoromethane (S)	93	%.	70-130		1		05/24/21 23:49	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: CO05A-PZM	Lab ID: 30421666007	Collected: 05/19/21 15:10	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Acetone	7.9J	ug/L	10.0	5.6	1		05/25/21 00:15	67-64-1	
Benzene	1330	ug/L	100	33.8	100		05/26/21 21:24	71-43-2	
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		05/25/21 00:15	75-27-4	IH
Bromoform	1.0 U	ug/L	1.0	0.56	1		05/25/21 00:15	75-25-2	
Bromomethane	1.0 U	ug/L	1.0	0.73	1		05/25/21 00:15	74-83-9	CL
2-Butanone (MEK)	10.0 U	ug/L	10.0	1.5	1		05/25/21 00:15	78-93-3	
Carbon disulfide	0.93J	ug/L	1.0	0.32	1		05/25/21 00:15	75-15-0	
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		05/25/21 00:15	56-23-5	
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		05/25/21 00:15	108-90-7	
Chloroethane	1.0 U	ug/L	1.0	0.64	1		05/25/21 00:15	75-00-3	IH
Chloroform	1.0 U	ug/L	1.0	0.39	1		05/25/21 00:15	67-66-3	
Chloromethane	1.0 U	ug/L	1.0	0.40	1		05/25/21 00:15	74-87-3	
Cyclohexane	1.1J	ug/L	10.0	0.33	1		05/25/21 00:15	110-82-7	
1,2-Dibromo-3-chloropropane	5.0 U	ug/L	5.0	0.55	1		05/25/21 00:15	96-12-8	
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		05/25/21 00:15	124-48-1	
1,2-Dibromoethane (EDB)	1.0 U	ug/L	1.0	0.44	1		05/25/21 00:15	106-93-4	
1,2-Dichlorobenzene	1.0 U	ug/L	1.0	0.38	1		05/25/21 00:15	95-50-1	IH
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		05/25/21 00:15	541-73-1	
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		05/25/21 00:15	106-46-7	
Dichlorodifluoromethane	1.0 U	ug/L	1.0	0.63	1		05/25/21 00:15	75-71-8	IH
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.24	1		05/25/21 00:15	75-34-3	
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		05/25/21 00:15	107-06-2	
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		05/25/21 00:15	540-59-0	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		05/25/21 00:15	75-35-4	
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		05/25/21 00:15	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		05/25/21 00:15	156-60-5	
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		05/25/21 00:15	78-87-5	
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		05/25/21 00:15	10061-01-5	
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		05/25/21 00:15	10061-02-6	
Ethylbenzene	71.8	ug/L	1.0	0.40	1		05/25/21 00:15	100-41-4	
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		05/25/21 00:15	591-78-6	
Isopropylbenzene (Cumene)	6.2	ug/L	1.0	0.47	1		05/25/21 00:15	98-82-8	IH
Methyl acetate	5.0 U	ug/L	5.0	0.55	1		05/25/21 00:15	79-20-9	
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		05/25/21 00:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		05/25/21 00:15	108-10-1	
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		05/25/21 00:15	1634-04-4	
Styrene	152	ug/L	1.0	0.33	1		05/25/21 00:15	100-42-5	IH
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		05/25/21 00:15	79-34-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		05/25/21 00:15	127-18-4	
Toluene	597	ug/L	100	31.7	100		05/26/21 21:24	108-88-3	
1,2,3-Trichlorobenzene	2.0 U	ug/L	2.0	0.89	1		05/25/21 00:15	87-61-6	
1,2,4-Trichlorobenzene	1.0 U	ug/L	1.0	0.73	1		05/25/21 00:15	120-82-1	IH
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		05/25/21 00:15	71-55-6	
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		05/25/21 00:15	79-00-5	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		05/25/21 00:15	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation
Pace Project No.: 30421666

Sample: CO05A-PZM	Lab ID: 30421666007	Collected: 05/19/21 15:10	Received: 05/19/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
Trichlorofluoromethane	1.0 U	ug/L	1.0	0.51	1		05/25/21 00:15	75-69-4	
1,1,2-Trichlorotrifluoroethane	50.0 U	ug/L	50.0	3.0	1		05/25/21 00:15	76-13-1	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		05/25/21 00:15	75-01-4	
Xylene (Total)	1080	ug/L	3.0	1.4	1		05/25/21 00:15	1330-20-7	
m&p-Xylene	774	ug/L	2.0	0.94	1		05/25/21 00:15	179601-23-1	
o-Xylene	308	ug/L	1.0	0.41	1		05/25/21 00:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%.	70-130		1		05/25/21 00:15	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130		1		05/25/21 00:15	17060-07-0	
Toluene-d8 (S)	93	%.	70-130		1		05/25/21 00:15	2037-26-5	
Dibromofluoromethane (S)	98	%.	70-130		1		05/25/21 00:15	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation

Pace Project No.: 30421666

QC Batch: 449383

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260B MSV

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30421666001, 30421666002, 30421666003, 30421666004, 30421666006, 30421666007

METHOD BLANK: 2168605

Matrix: Water

Associated Lab Samples: 30421666001, 30421666002, 30421666003, 30421666004, 30421666006, 30421666007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	05/24/21 15:17	IH
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	05/24/21 15:17	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	05/24/21 15:17	
1,1,2-Trichlorotrifluoroethane	ug/L	50.0 U	50.0	3.0	05/24/21 15:17	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	05/24/21 15:17	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	05/24/21 15:17	
1,2,3-Trichlorobenzene	ug/L	2.0 U	2.0	0.89	05/24/21 15:17	
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0	0.73	05/24/21 15:17	IH
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	05/24/21 15:17	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	05/24/21 15:17	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	05/24/21 15:17	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	05/24/21 15:17	
1,2-Dichloroethene (Total)	ug/L	2.0 U	2.0	0.66	05/24/21 15:17	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	05/24/21 15:17	
1,3-Dichlorobenzene	ug/L	1.0 U	1.0	0.45	05/24/21 15:17	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	05/24/21 15:17	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	05/24/21 15:17	
2-Hexanone	ug/L	10.0 U	10.0	0.58	05/24/21 15:17	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	05/24/21 15:17	
Acetone	ug/L	10.0 U	10.0	5.6	05/24/21 15:17	
Benzene	ug/L	1.0 U	1.0	0.34	05/24/21 15:17	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	05/24/21 15:17	IH
Bromoform	ug/L	1.0 U	1.0	0.56	05/24/21 15:17	
Bromomethane	ug/L	1.0 U	1.0	0.73	05/24/21 15:17	CL
Carbon disulfide	ug/L	1.0 U	1.0	0.32	05/24/21 15:17	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	05/24/21 15:17	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	05/24/21 15:17	
Chloroethane	ug/L	1.0 U	1.0	0.64	05/24/21 15:17	IH
Chloroform	ug/L	0.69J	1.0	0.39	05/24/21 15:17	
Chloromethane	ug/L	1.0 U	1.0	0.40	05/24/21 15:17	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	05/24/21 15:17	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	05/24/21 15:17	
Cyclohexane	ug/L	10.0 U	10.0	0.33	05/24/21 15:17	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	05/24/21 15:17	
Dichlorodifluoromethane	ug/L	1.0 U	1.0	0.63	05/24/21 15:17	IH
Ethylbenzene	ug/L	1.0 U	1.0	0.40	05/24/21 15:17	
Isopropylbenzene (Cumene)	ug/L	1.0 U	1.0	0.47	05/24/21 15:17	IH
m&p-Xylene	ug/L	2.0 U	2.0	0.94	05/24/21 15:17	
Methyl acetate	ug/L	5.0 U	5.0	0.55	05/24/21 15:17	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	05/24/21 15:17	

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation
Pace Project No.: 30421666

METHOD BLANK: 2168605 Matrix: Water
Associated Lab Samples: 30421666001, 30421666002, 30421666003, 30421666004, 30421666006, 30421666007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylene Chloride	ug/L	1.0 U	1.0	0.64	05/24/21 15:17	
o-Xylene	ug/L	1.0 U	1.0	0.41	05/24/21 15:17	
Styrene	ug/L	1.0 U	1.0	0.33	05/24/21 15:17	IH
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	05/24/21 15:17	
Toluene	ug/L	1.0 U	1.0	0.32	05/24/21 15:17	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	05/24/21 15:17	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	05/24/21 15:17	
Trichloroethene	ug/L	1.0 U	1.0	0.29	05/24/21 15:17	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	05/24/21 15:17	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	05/24/21 15:17	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	05/24/21 15:17	
1,2-Dichloroethane-d4 (S)	%.	104	70-130		05/24/21 15:17	
4-Bromofluorobenzene (S)	%.	102	70-130		05/24/21 15:17	
Dibromofluoromethane (S)	%.	107	70-130		05/24/21 15:17	
Toluene-d8 (S)	%.	90	70-130		05/24/21 15:17	

LABORATORY CONTROL SAMPLE: 2168606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.8	104	70-130	IH
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	90	70-130	
1,1,2-Trichloroethane	ug/L	20	18.5	92	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.5J	107	61-138	
1,1-Dichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethene	ug/L	20	17.6	88	70-130	
1,2,3-Trichlorobenzene	ug/L	20	17.5	87	70-130	
1,2,4-Trichlorobenzene	ug/L	20	17.3	87	70-130	IH
1,2-Dibromo-3-chloropropane	ug/L	20	16.6	83	59-122	
1,2-Dibromoethane (EDB)	ug/L	20	17.8	89	70-130	
1,2-Dichlorobenzene	ug/L	20	19.5	98	70-130	IH
1,2-Dichloroethane	ug/L	20	17.6	88	70-130	
1,2-Dichloroethene (Total)	ug/L	40	35.3	88	70-130	
1,2-Dichloropropane	ug/L	20	18.3	92	70-130	
1,3-Dichlorobenzene	ug/L	20	20.1	100	70-130	
1,4-Dichlorobenzene	ug/L	20	19.3	97	70-130	
2-Butanone (MEK)	ug/L	20	16.4	82	70-130	
2-Hexanone	ug/L	20	15.1	76	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.7	84	70-130	
Acetone	ug/L	20	20.6	103	67-173	
Benzene	ug/L	20	19.2	96	70-130	
Bromodichloromethane	ug/L	20	19.6	98	70-130	IH
Bromoform	ug/L	20	17.8	89	63-119	
Bromomethane	ug/L	20	10	50	24-159	CL
Carbon disulfide	ug/L	20	20.3	101	57-132	

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.

REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

Project: NE Delineation

Pace Project No.: 30421666

LABORATORY CONTROL SAMPLE: 2168606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	20	19.2	96	70-130	
Chlorobenzene	ug/L	20	19.9	100	70-130	
Chloroethane	ug/L	20	23.0	115	62-145 IH	
Chloroform	ug/L	20	19.9	99	70-130	
Chloromethane	ug/L	20	15.7	79	66-140	
cis-1,2-Dichloroethene	ug/L	20	17.5	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.7	94	70-130	
Cyclohexane	ug/L	20	17.5	88	63-128	
Dibromochloromethane	ug/L	20	17.9	89	70-130	
Dichlorodifluoromethane	ug/L	20	23.0	115	62-162 IH	
Ethylbenzene	ug/L	20	19.7	98	70-130	
Isopropylbenzene (Cumene)	ug/L	20	22.4	112	70-130 IH	
m&p-Xylene	ug/L	40	40.8	102	70-130	
Methyl acetate	ug/L	20	17.2	86	37-158	
Methyl-tert-butyl ether	ug/L	20	17.0	85	70-130	
Methylene Chloride	ug/L	20	16.9	84	70-130	
o-Xylene	ug/L	20	19.3	96	70-130	
Styrene	ug/L	20	19.8	99	70-130 IH	
Tetrachloroethene	ug/L	20	20.7	103	70-130	
Toluene	ug/L	20	19.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.8	89	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.5	92	70-130	
Trichloroethene	ug/L	20	18.2	91	70-130	
Trichlorofluoromethane	ug/L	20	24.7	123	70-130	
Vinyl chloride	ug/L	20	18.8	94	70-130	
Xylene (Total)	ug/L	60	60.1	100	70-130	
1,2-Dichloroethane-d4 (S)	%.			102	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Dibromofluoromethane (S)	%.			101	70-130	
Toluene-d8 (S)	%.			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2168607 2168608

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		3042166003	Result	Spike Conc.	Spike Conc.	Result	% Rec	Result	% Rec				
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	19.5	19.1	98	96	55-146	2	30	IH	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.1	15.5	80	78	55-118	3	30		
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	16.9	15.8	85	79	61-122	7	30		
1,1,2-	ug/L	50.0 U	20	20	17.6J	19.8J	88	99	42-134		30		
Trichlorotrifluoroethane													
1,1-Dichloroethane	ug/L	1.0 U	20	20	16.9	16.5	85	83	59-130	2	30		
1,1-Dichloroethene	ug/L	1.0 U	20	20	17.0	16.7	85	83	52-119	2	30		
1,2,3-Trichlorobenzene	ug/L	2.0 U	20	20	15.2	15.1	76	75	45-126	1	30		
1,2,4-Trichlorobenzene	ug/L	1.0 U	20	20	16.0	15.4	80	77	38-146	4	30	IH	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	15.3	14.8	77	74	32-112	3	30		

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation
Pace Project No.: 30421666

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2168607		2168608									
Parameter	Units	MS		MSD		MS		MSD		% Rec		Max	
		30421666003	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	Limits	RPD	RPD	Qual	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	15.9	15.2	80	76	61-116	5	30		
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	17.6	16.9	88	85	58-126	4	30	IH	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.3	15.6	82	78	49-135	4	30		
1,2-Dichloroethene (Total)	ug/L	2.0 U	40	40	33.2	31.8	83	80	61-119	4	30		
1,2-Dichloropropane	ug/L	1.0 U	20	20	16.4	15.9	82	79	67-121	3	30		
1,3-Dichlorobenzene	ug/L	1.0 U	20	20	18.1	17.6	91	88	56-130	3	30		
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	17.2	16.8	86	84	60-121	2	30		
2-Butanone (MEK)	ug/L	10.0 U	20	20	14.9	16.2	68	75	59-138	9	30		
2-Hexanone	ug/L	10.0 U	20	20	13.3	14.5	66	73	66-123	9	30		
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	13.6	14.5	68	73	70-130	6	30	ML	
Acetone	ug/L	8.8J	20	20	25.3	26.5	82	88	57-140	5	30		
Benzene	ug/L	9.0	20	20	27.7	26.8	93	89	50-149	3	30		
Bromodichloromethane	ug/L	1.0 U	20	20	17.8	17.5	89	88	46-131	1	30	IH	
Bromoform	ug/L	1.0 U	20	20	15.9	15.2	80	76	30-119	5	30		
Bromomethane	ug/L	1.0 U	20	20	2.3	3.3	12	17	10-163	35	30	CL,R1	
Carbon disulfide	ug/L	1.0 U	20	20	17.5	19.0	87	95	41-116	9	30		
Carbon tetrachloride	ug/L	1.0 U	20	20	18.9	17.8	94	89	55-119	6	30		
Chlorobenzene	ug/L	1.0 U	20	20	18.5	18.1	93	91	66-124	2	30		
Chloroethane	ug/L	1.0 U	20	20	23.4	24.2	117	121	45-162	4	30	IH	
Chloroform	ug/L	8.7	20	20	25.5	25.2	84	83	56-123	1	30		
Chloromethane	ug/L	1.0 U	20	20	14.1	15.3	71	77	49-150	8	30		
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.6	15.8	83	79	63-116	5	30		
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.6	16.1	83	80	46-119	3	30		
Cyclohexane	ug/L	10.0 U	20	20	15.7	16.9	78	84	51-130	7	30		
Dibromochloromethane	ug/L	1.0 U	20	20	16.1	15.5	81	78	42-120	4	30		
Dichlorodifluoromethane	ug/L	1.0 U	20	20	21.2	23.1	106	116	59-155	9	30	IH	
Ethylbenzene	ug/L	1.0 U	20	20	18.8	18.6	93	92	63-135	1	30		
Isopropylbenzene (Cumene)	ug/L	1.0 U	20	20	21.3	20.7	105	102	50-167	3	30	IH	
m&p-Xylene	ug/L	2.0 U	40	40	39.5	38.1	97	93	63-135	4	30		
Methyl acetate	ug/L	5.0 U	20	20	13.6	14.4	68	72	17-145	6	30		
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	14.0	15.4	70	77	53-123	9	30		
Methylene Chloride	ug/L	1.2	20	20	17.0	16.0	79	74	57-132	6	30		
o-Xylene	ug/L	1.0 U	20	20	18.7	17.7	92	87	57-133	6	30		
Styrene	ug/L	1.0 U	20	20	18.4	17.4	92	87	58-130	6	30	IH	
Tetrachloroethene	ug/L	1.0 U	20	20	18.4	18.0	92	90	61-132	2	30		
Toluene	ug/L	1.5	20	20	20.0	19.4	92	90	59-139	3	30		
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.7	16.0	83	80	60-124	4	30		
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	16.5	15.6	83	78	48-121	6	30		
Trichloroethene	ug/L	1.0 U	20	20	17.8	17.3	89	87	63-128	3	30		
Trichlorofluoromethane	ug/L	1.0 U	20	20	21.8	23.3	109	116	70-152	6	30		
Vinyl chloride	ug/L	1.0 U	20	20	18.9	19.6	94	98	67-141	3	30		
Xylene (Total)	ug/L	3.0 U	60	60	58.3	55.8	95	91	63-135	4	30		
1,2-Dichloroethane-d4 (S)	%.						103	101	70-130				
4-Bromofluorobenzene (S)	%.						103	102	70-130				

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation
Pace Project No.: 30421666

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2168607		2168608							
Parameter	Units	30421666003	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Dibromofluoromethane (S)	%.						98	98	70-130			
Toluene-d8 (S)	%.						95	94	70-130			

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,

without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation

Pace Project No.: 30421666

QC Batch: 449751

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260B MSV

Laboratory:

Pace Analytical Services - Greensburg

Associated Lab Samples: 30421666005

METHOD BLANK: 2170304

Matrix: Water

Associated Lab Samples: 30421666005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	05/26/21 13:22	IH,M5
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	05/26/21 13:22	M5
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	05/26/21 13:22	M5
1,1,2-Trichlorotrifluoroethane	ug/L	50.0 U	50.0	3.0	05/26/21 13:22	M5
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	05/26/21 13:22	M5
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	05/26/21 13:22	M5
1,2,3-Trichlorobenzene	ug/L	2.0 U	2.0	0.89	05/26/21 13:22	M5
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0	0.73	05/26/21 13:22	IH,M5
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	05/26/21 13:22	M5
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	05/26/21 13:22	M5
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	05/26/21 13:22	IH,M5
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	05/26/21 13:22	M5
1,2-Dichloroethene (Total)	ug/L	2.0 U	2.0	0.66	05/26/21 13:22	M5
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	05/26/21 13:22	M5
1,3-Dichlorobenzene	ug/L	1.0 U	1.0	0.45	05/26/21 13:22	M5
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	05/26/21 13:22	M5
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	05/26/21 13:22	M5
2-Hexanone	ug/L	10.0 U	10.0	0.58	05/26/21 13:22	M5
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	05/26/21 13:22	M5
Acetone	ug/L	10.0 U	10.0	5.6	05/26/21 13:22	M5
Benzene	ug/L	1.0 U	1.0	0.34	05/26/21 13:22	M5
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	05/26/21 13:22	IH,M5
Bromoform	ug/L	1.0 U	1.0	0.56	05/26/21 13:22	M5
Bromomethane	ug/L	1.0 U	1.0	0.73	05/26/21 13:22	M5
Carbon disulfide	ug/L	1.0 U	1.0	0.32	05/26/21 13:22	M5
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	05/26/21 13:22	M5
Chlorobenzene	ug/L	1.0 U	1.0	0.26	05/26/21 13:22	M5
Chloroethane	ug/L	1.0 U	1.0	0.64	05/26/21 13:22	IH,M5
Chloroform	ug/L	0.52J	1.0	0.39	05/26/21 13:22	M5
Chloromethane	ug/L	1.0 U	1.0	0.40	05/26/21 13:22	M5
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	05/26/21 13:22	M5
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	05/26/21 13:22	M5
Cyclohexane	ug/L	10.0 U	10.0	0.33	05/26/21 13:22	M5
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	05/26/21 13:22	M5
Dichlorodifluoromethane	ug/L	1.0 U	1.0	0.63	05/26/21 13:22	IH,M5
Ethylbenzene	ug/L	1.0 U	1.0	0.40	05/26/21 13:22	M5
Isopropylbenzene (Cumene)	ug/L	1.0 U	1.0	0.47	05/26/21 13:22	IH,M5
m&p-Xylene	ug/L	2.0 U	2.0	0.94	05/26/21 13:22	M5
Methyl acetate	ug/L	5.0 U	5.0	0.55	05/26/21 13:22	M5
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	05/26/21 13:22	M5

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation

Pace Project No.: 30421666

METHOD BLANK: 2170304

Matrix: Water

Associated Lab Samples: 30421666005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylene Chloride	ug/L	1.0 U	1.0	0.64	05/26/21 13:22	M5
o-Xylene	ug/L	1.0 U	1.0	0.41	05/26/21 13:22	M5
Styrene	ug/L	1.0 U	1.0	0.33	05/26/21 13:22	IH,M5
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	05/26/21 13:22	M5
Toluene	ug/L	1.0 U	1.0	0.32	05/26/21 13:22	M5
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	05/26/21 13:22	M5
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	05/26/21 13:22	M5
Trichloroethene	ug/L	1.0 U	1.0	0.29	05/26/21 13:22	M5
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	05/26/21 13:22	M5
Vinyl chloride	ug/L	1.0 U	1.0	0.29	05/26/21 13:22	M5
Xylene (Total)	ug/L	3.0 U	3.0	1.4	05/26/21 13:22	M5
1,2-Dichloroethane-d4 (S)	%.	106	70-130		05/26/21 13:22	M5
4-Bromofluorobenzene (S)	%.	103	70-130		05/26/21 13:22	M5
Dibromofluoromethane (S)	%.	106	70-130		05/26/21 13:22	M5
Toluene-d8 (S)	%.	92	70-130		05/26/21 13:22	M5

LABORATORY CONTROL SAMPLE: 2170305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.7	104	70-130	IH,M5
1,1,2,2-Tetrachloroethane	ug/L	20	18.7	94	70-130	M5
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	M5
1,1,2-Trichlorotrifluoroethane	ug/L	20	21.0J	105	61-138	M5
1,1-Dichloroethane	ug/L	20	18.5	93	70-130	M5
1,1-Dichloroethene	ug/L	20	18.0	90	70-130	M5
1,2,3-Trichlorobenzene	ug/L	20	17.4	87	70-130	M5
1,2,4-Trichlorobenzene	ug/L	20	18.2	91	70-130	IH,M5
1,2-Dibromo-3-chloropropane	ug/L	20	17.7	89	59-122	M5
1,2-Dibromoethane (EDB)	ug/L	20	18.0	90	70-130	M5
1,2-Dichlorobenzene	ug/L	20	19.7	99	70-130	IH,M5
1,2-Dichloroethane	ug/L	20	18.6	93	70-130	M5
1,2-Dichloroethene (Total)	ug/L	40	36.6	92	70-130	M5
1,2-Dichloropropane	ug/L	20	18.4	92	70-130	M5
1,3-Dichlorobenzene	ug/L	20	20.4	102	70-130	M5
1,4-Dichlorobenzene	ug/L	20	18.9	94	70-130	M5
2-Butanone (MEK)	ug/L	20	17.1	85	70-130	M5
2-Hexanone	ug/L	20	16.4	82	70-130	M5
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.4	87	70-130	M5
Acetone	ug/L	20	19.7	98	67-173	M5
Benzene	ug/L	20	19.6	98	70-130	M5
Bromodichloromethane	ug/L	20	20.0	100	70-130	IH,M5
Bromoform	ug/L	20	19.3	96	63-119	M5
Bromomethane	ug/L	20	10.7	54	24-159	M5
Carbon disulfide	ug/L	20	19.6	98	57-132	M5

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation

Pace Project No.: 30421666

LABORATORY CONTROL SAMPLE: 2170305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	20	19.9	100	70-130 M5	
Chlorobenzene	ug/L	20	20.3	101	70-130 M5	
Chloroethane	ug/L	20	25.7	129	62-145 IH,M5	
Chloroform	ug/L	20	19.3	97	70-130 M5	
Chloromethane	ug/L	20	15.3	77	66-140 M5	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	70-130 M5	
cis-1,3-Dichloropropene	ug/L	20	19.8	99	70-130 M5	
Cyclohexane	ug/L	20	17.7	89	63-128 M5	
Dibromochloromethane	ug/L	20	18.6	93	70-130 M5	
Dichlorodifluoromethane	ug/L	20	22.5	112	62-162 IH,M5	
Ethylbenzene	ug/L	20	20.2	101	70-130 M5	
Isopropylbenzene (Cumene)	ug/L	20	23.1	115	70-130 IH,M5	
m&p-Xylene	ug/L	40	40.7	102	70-130 M5	
Methyl acetate	ug/L	20	18.6	93	37-158 M5	
Methyl-tert-butyl ether	ug/L	20	17.8	89	70-130 M5	
Methylene Chloride	ug/L	20	17.6	88	70-130 M5	
o-Xylene	ug/L	20	19.0	95	70-130 M5	
Styrene	ug/L	20	19.5	98	70-130 IH,M5	
Tetrachloroethene	ug/L	20	20.2	101	70-130 M5	
Toluene	ug/L	20	19.1	96	70-130 M5	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	70-130 M5	
trans-1,3-Dichloropropene	ug/L	20	19.4	97	70-130 M5	
Trichloroethene	ug/L	20	19.4	97	70-130 M5	
Trichlorofluoromethane	ug/L	20	24.0	120	70-130 M5	
Vinyl chloride	ug/L	20	19.4	97	70-130 M5	
Xylene (Total)	ug/L	60	59.7	99	70-130 M5	
1,2-Dichloroethane-d4 (S)	%.			101	70-130 M5	
4-Bromofluorobenzene (S)	%.			101	70-130 M5	
Dibromofluoromethane (S)	%.			100	70-130 M5	
Toluene-d8 (S)	%.			95	70-130 M5	

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: NE Delineation
Pace Project No.: 30421666

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.
TNTC - Too Numerous To Count
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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
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.
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.

BATCH QUALIFIERS

Batch: 449751

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
M5 A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NE Delineation
 Pace Project No.: 30421666

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30421666001	Trip Blank	EPA 8260B	449383		
30421666002	CO08C-PZM	EPA 8260B	449383		
30421666003	CO08D-PZM	EPA 8260B	449383		
30421666004	CO08B-PZM	EPA 8260B	449383		
30421666005	CO05C-PZM	EPA 8260B	449751		
30421666006	Duplicate	EPA 8260B	449383		
30421666007	CO05A-PZM	EPA 8260B	449383		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.



CHAIN-OF-CUSTODY / Analytical Request Doc

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

MO# : 30421666

Section A

Required Client Information:

Company: EnviroAnalytical Group
Report To: Jennifer Goss
Copy To: St. Louis
Address: 1600 Sparrows Point Blvd
Sparrows Point, MD 21219
Email To: matthew.jones@enviroanalytical.com
PO Number:
Phone: 301-920-0333
Fax: 301-920-0333
Project Name: NE Delinfect
Requested Due Date/TAT: 5 days

Section C

Required Project Information:

Invoice Information:
Attention: Matt Newinen
Company Name: EnviroAnalytical Group TPA
Address: 1600 Sparrows Point Blvd, Suite 200, Sparrows Point, MD 21219
Phone: 301-920-0333
Fax: 301-920-0333
Project Profile #: 30421666
Project Manager: Samantha Bayura
Project Profile #: 30421666
Site Location: MD
STATE:

Section D		Required Client Information		Required Project Information		Invoice Information:	
Company:	EnviroAnalytical Group	Report To:	Jennifer Goss	Copy To:	St. Louis	Attention:	Matt Newinen

#	ITEM	SAMPLE ID (A-Z, 0-9, -,)	Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX	CODE DW WT WW WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIFE AIR OTHER TISSUE	MATERIAL CODES (See Sample Codes to Left)	TIME COLLECTED COMPOSITE START	TIME COMPOSITE END/GRAB	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	Analyses Test	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	Site Location	MD	STATE:	Pace Project No./Lab I.D.	001 002 003 004 005 006 007	
									DATE	TIME											
1	T5-6 Vessel			WT	WT	WT	5/19/21	-	2	2											
2	C008C-PZM			WT	WT	WT	830	3	3												
3	C008D-PZM			WT	WT	WT	1625	9	9												
4	C008B-PZM			WT	WT	WT	1200	3	3												
5	C008C-PZM			WT	WT	WT	1355	3	3												
6	Duplicate			WT	WT	WT	-	3	3												
7	C008A-PZM			WT	WT	WT	1510	3	3												
8																					
9																					
10																					
11																					
12																					
ADDITIONAL COMMENTS		RElinquished By/Affiliation		DATE		ACCEPTED BY/AFFILIATION		TIME		TIME		SAMPLE CONDITIONS		DATE		TIME					
Data Package Required? (Y/N):	<i>Yes</i>	Print Name of Sampler:	<i>Matthew Jones</i>	DATE:	5/19/21	ACCEPTED BY/AFFILIATION:	<i>Pace</i>	TIME:	1545	TIME:	1544	Samples intact (Y/N):	<i>Yes</i>	Temp in °C:	<i>21</i>	TIME:	<i>1544</i>				
Data Validation Required? (Y/N):	<i>No</i>	Print Name of Sampler:	<i>Matthew Jones</i>	DATE:	5/19/21	ACCEPTED BY/AFFILIATION:	<i>Pace</i>	TIME:	1910	TIME:	1915	Samples intact (Y/N):	<i>Yes</i>	Temp in °C:	<i>21</i>	TIME:	<i>1915</i>				
If data package is required, attach data package checklist.		Print Name of Sampler:	<i>Matthew Jones</i>	DATE:	5/19/21	ACCEPTED BY/AFFILIATION:	<i>Pace</i>	TIME:	2215	TIME:	2215	Samples intact (Y/N):	<i>Yes</i>	Temp in °C:	<i>21</i>	TIME:	<i>2215</i>				
SAMPLER NAME AND SIGNATURE		PRINT Name of Sampler:		<i>Matthew Jones</i>		SIGNATURE of Sampler:		<i>Matthew Jones</i>		DATE Signed (MM/DD/YY):		<i>5/19/21</i>		PRINT Name of Sampler:		<i>Matthew Jones</i>		SIGNATURE of Sampler:		<i>Matthew Jones</i>	

*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.

Pittsburgh Lab Sample Condition Upon Receipt

#30421666



Client Name: Tradepoint Atlantic

Project #

Courier: FedEx UPS USPS Client Commercial Pace Other _____

Tracking #: N/A

Label	MIC
LIMS Login	MIC

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

Thermometer Used

9

Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 3.4 °C Correction Factor: -1 °C Final Temp: 33 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:
Chain of Custody Present:	/			UVA	MIC 5/20/2021
Chain of Custody Filled Out:	/			1.	
Chain of Custody Relinquished:	/			2.	
Sampler Name & Signature on COC:	/			3.	
Sample Labels match COC:	/			4.	
-Includes date/time/ID	Matrix: WT			5.	
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):	/			7.	
Rush Turn Around Time Requested:	/			8.	
Sufficient Volume:	/			9.	
Correct Containers Used:	/			10.	
-Pace Containers Used:	/				
Containers Intact:	/			11.	
Orthophosphate field filtered		/		12.	
Hex Cr Aqueous sample field filtered		/		13.	
Organic Samples checked for dechlorination:		/		14.	
Filtered volume received for Dissolved tests		/		15.	
All containers have been checked for preservation.	/	/		16.	
exceptions: VOA coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					
All containers meet method preservation requirements.	/	/	/	Initial when completed: MIC	Date/time of preservation
Headspace in VOA Vials (>6mm):		/		17.	
Trip Blank Present:	/			18.	
Trip Blank Custody Seals Present	/				
Rad Samples Screened < 0.5 mrem/hr		/		Initial when completed:	Date: Survey Meter SN:

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

_____ A check in this box indicates that additional information has been stored in eReports.

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)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

June 07, 2021

Mr. Bob Tworkowski
Tradepoint Atlantic
1600 Sparrow's Point Boulevard
Sparrows Point, MD 21219

RE: Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

Dear Mr. Tworkowski:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
• Pace Analytical Services - Greensburg

This project follows the April 5, 2016 revision 3 Quality Assurance Project Plan for Sparrows Point Terminal Site, Sparrows Point, MD prepared for EnviroAnalytics Group and is not for PA DEP compliance reporting.

Revision 1 - This report replaces the May 26, 2021 report. This project was revised on June 7, 2021 to correct VOC flagging. (Greensburg, PA)

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

Sincerely,



Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

cc: Ms. Penny Gardner, Environmental Data Quality, Inc.
J.Price, ARM Group Inc.
Mr. Stewart Kabis, ARM Group Inc.
Mr. Eric S. Magdar, ARM Group Inc.
Ms. Shawne M. Rodgers, Environmental Data Quality, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: NE Delineation GW-Revised Report
 Pace Project No.: 30421885

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601	Missouri Certification #: 235
ANAB DOD-ELAP Rad Accreditation #: L2417	Montana Certification #: Cert0082
Alabama Certification #: 41590	Nebraska Certification #: NE-OS-29-14
Arizona Certification #: AZ0734	Nevada Certification #: PA014572018-1
Arkansas Certification	New Hampshire/TNI Certification #: 297617
California Certification #: 04222CA	New Jersey/TNI Certification #: PA051
Colorado Certification #: PA01547	New Mexico Certification #: PA01457
Connecticut Certification #: PH-0694	New York/TNI Certification #: 10888
Delaware Certification	North Carolina Certification #: 42706
EPA Region 4 DW Rad	North Dakota Certification #: R-190
Florida/TNI Certification #: E87683	Ohio EPA Rad Approval: #41249
Georgia Certification #: C040	Oregon/TNI Certification #: PA200002-010
Florida: Cert E871149 SEKS WET	Pennsylvania/TNI Certification #: 65-00282
Guam Certification	Puerto Rico Certification #: PA01457
Hawaii Certification	Rhode Island Certification #: 65-00282
Idaho Certification	South Dakota Certification
Illinois Certification	Tennessee Certification #: 02867
Indiana Certification	Texas/TNI Certification #: T104704188-17-3
Iowa Certification #: 391	Utah/TNI Certification #: PA014572017-9
Kansas/TNI Certification #: E-10358	USDA Soil Permit #: P330-17-00091
Kentucky Certification #: KY90133	Vermont Dept. of Health: ID# VT-0282
KY WW Permit #: KY0098221	Virgin Island/PADEP Certification
KY WW Permit #: KY0000221	Virginia/VELAP Certification #: 9526
Louisiana DHH/TNI Certification #: LA180012	Washington Certification #: C868
Louisiana DEQ/TNI Certification #: 4086	West Virginia DEP Certification #: 143
Maine Certification #: 2017020	West Virginia DHHR Certification #: 9964C
Maryland Certification #: 308	Wisconsin Approve List for Rad
Massachusetts Certification #: M-PA1457	Wyoming Certification #: 8TMS-L
Michigan/PADEP Certification #: 9991	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30421885001	Trip Blank	Water	05/20/21 00:01	05/20/21 22:15
30421885002	CO212A-PZM	Water	05/20/21 08:55	05/20/21 22:15
30421885003	CO05B-PZM	Water	05/20/21 11:40	05/20/21 22:15
30421885004	Field Blank	Water	05/20/21 14:30	05/20/21 22:15
30421885005	CO08A-PZM	Water	05/20/21 13:45	05/20/21 22:15

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30421885001	Trip Blank	EPA 8260B	LEL	55	PASI-PA
30421885002	CO212A-PZM	EPA 8260B	LEL	55	PASI-PA
30421885003	CO05B-PZM	EPA 8260B	LEL	55	PASI-PA
30421885004	Field Blank	EPA 8260B	LEL	55	PASI-PA
30421885005	CO08A-PZM	EPA 8260B	LEL	55	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

Date: June 07, 2021

CO05B-PZM (Lab ID: 30421885003)

- Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

CO08A-PZM (Lab ID: 30421885005)

- Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

Method: EPA 8260B

Description: 8260B MSV

Client: Tradepoint Atlantic

Date: June 07, 2021

General Information:

5 samples were analyzed for EPA 8260B by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

QC Batch: 449250

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- BLANK (Lab ID: 2167930)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- CO05B-PZM (Lab ID: 30421885003)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- CO08A-PZM (Lab ID: 30421885005)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- CO212A-PZM (Lab ID: 30421885002)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

Method: EPA 8260B

Description: 8260B MSV

Client: Tradepoint Atlantic

Date: June 07, 2021

QC Batch: 449250

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- Chloroethane
- Dichlorodifluoromethane
- Isopropylbenzene (Cumene)
- Styrene
- Field Blank (Lab ID: 30421885004)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- LCS (Lab ID: 2167931)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- MS (Lab ID: 2167932)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- MSD (Lab ID: 2167933)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene
 - 1,2-Dichlorobenzene
 - Bromodichloromethane
 - Chloroethane
 - Dichlorodifluoromethane
 - Isopropylbenzene (Cumene)
 - Styrene
- Trip Blank (Lab ID: 30421885001)
 - 1,1,1-Trichloroethane
 - 1,2,4-Trichlorobenzene

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

PROJECT NARRATIVE

Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

Method: EPA 8260B
Description: 8260B MSV
Client: Tradepoint Atlantic
Date: June 07, 2021

QC Batch: 449250

IH: This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

- 1,2-Dichlorobenzene
- Bromodichloromethane
- Chloroethane
- Dichlorodifluoromethane
- Isopropylbenzene (Cumene)
- Styrene

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 449250

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30421447002

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MSD (Lab ID: 2167933)
- 2-Hexanone
- 4-Methyl-2-pentanone (MIBK)

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

Sample: Trip Blank	Lab ID: 30421885001	Collected: 05/20/21 00:01	Received: 05/20/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
Acetone	10.0 U	ug/L	10.0	5.6	1		05/22/21 17:25	67-64-1	
Benzene	1.0 U	ug/L	1.0	0.34	1		05/22/21 17:25	71-43-2	
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		05/22/21 17:25	75-27-4	IH
Bromoform	1.0 U	ug/L	1.0	0.56	1		05/22/21 17:25	75-25-2	
Bromomethane	1.0 U	ug/L	1.0	0.73	1		05/22/21 17:25	74-83-9	
2-Butanone (MEK)	10.0 U	ug/L	10.0	1.5	1		05/22/21 17:25	78-93-3	
Carbon disulfide	1.0 U	ug/L	1.0	0.32	1		05/22/21 17:25	75-15-0	
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		05/22/21 17:25	56-23-5	
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		05/22/21 17:25	108-90-7	
Chloroethane	1.0 U	ug/L	1.0	0.64	1		05/22/21 17:25	75-00-3	IH
Chloroform	1.0 U	ug/L	1.0	0.39	1		05/22/21 17:25	67-66-3	
Chloromethane	1.0 U	ug/L	1.0	0.40	1		05/22/21 17:25	74-87-3	
Cyclohexane	10.0 U	ug/L	10.0	0.33	1		05/22/21 17:25	110-82-7	
1,2-Dibromo-3-chloropropane	5.0 U	ug/L	5.0	0.55	1		05/22/21 17:25	96-12-8	
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		05/22/21 17:25	124-48-1	
1,2-Dibromoethane (EDB)	1.0 U	ug/L	1.0	0.44	1		05/22/21 17:25	106-93-4	
1,2-Dichlorobenzene	1.0 U	ug/L	1.0	0.38	1		05/22/21 17:25	95-50-1	IH
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		05/22/21 17:25	541-73-1	
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		05/22/21 17:25	106-46-7	
Dichlorodifluoromethane	1.0 U	ug/L	1.0	0.63	1		05/22/21 17:25	75-71-8	IH
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.24	1		05/22/21 17:25	75-34-3	
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		05/22/21 17:25	107-06-2	
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		05/22/21 17:25	540-59-0	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		05/22/21 17:25	75-35-4	
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		05/22/21 17:25	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		05/22/21 17:25	156-60-5	
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		05/22/21 17:25	78-87-5	
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		05/22/21 17:25	10061-01-5	
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		05/22/21 17:25	10061-02-6	
Ethylbenzene	1.0 U	ug/L	1.0	0.40	1		05/22/21 17:25	100-41-4	
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		05/22/21 17:25	591-78-6	
Isopropylbenzene (Cumene)	1.0 U	ug/L	1.0	0.47	1		05/22/21 17:25	98-82-8	IH
Methyl acetate	5.0 U	ug/L	5.0	0.55	1		05/22/21 17:25	79-20-9	
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		05/22/21 17:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		05/22/21 17:25	108-10-1	
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		05/22/21 17:25	1634-04-4	
Styrene	1.0 U	ug/L	1.0	0.33	1		05/22/21 17:25	100-42-5	IH
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		05/22/21 17:25	79-34-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		05/22/21 17:25	127-18-4	
Toluene	1.0 U	ug/L	1.0	0.32	1		05/22/21 17:25	108-88-3	
1,2,3-Trichlorobenzene	2.0 U	ug/L	2.0	0.89	1		05/22/21 17:25	87-61-6	
1,2,4-Trichlorobenzene	1.0 U	ug/L	1.0	0.73	1		05/22/21 17:25	120-82-1	IH
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		05/22/21 17:25	71-55-6	
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		05/22/21 17:25	79-00-5	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		05/22/21 17:25	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

Sample: Trip Blank	Lab ID: 30421885001	Collected: 05/20/21 00:01	Received: 05/20/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
Trichlorofluoromethane	1.0 U	ug/L	1.0	0.51	1		05/22/21 17:25	75-69-4	
1,1,2-Trichlorotrifluoroethane	50.0 U	ug/L	50.0	3.0	1		05/22/21 17:25	76-13-1	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		05/22/21 17:25	75-01-4	
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		05/22/21 17:25	1330-20-7	
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		05/22/21 17:25	179601-23-1	
o-Xylene	1.0 U	ug/L	1.0	0.41	1		05/22/21 17:25	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		05/22/21 17:25	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1		05/22/21 17:25	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		05/22/21 17:25	2037-26-5	
Dibromofluoromethane (S)	110	%.	70-130		1		05/22/21 17:25	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

Sample: CO212A-PZM	Lab ID: 30421885002	Collected: 05/20/21 08:55	Received: 05/20/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
Acetone	10.0 U	ug/L	10.0	5.6	1		05/22/21 21:55	67-64-1	
Benzene	1.0 U	ug/L	1.0	0.34	1		05/22/21 21:55	71-43-2	
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		05/22/21 21:55	75-27-4	IH
Bromoform	1.0 U	ug/L	1.0	0.56	1		05/22/21 21:55	75-25-2	
Bromomethane	1.0 U	ug/L	1.0	0.73	1		05/22/21 21:55	74-83-9	
2-Butanone (MEK)	10.0 U	ug/L	10.0	1.5	1		05/22/21 21:55	78-93-3	
Carbon disulfide	1.0 U	ug/L	1.0	0.32	1		05/22/21 21:55	75-15-0	
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		05/22/21 21:55	56-23-5	
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		05/22/21 21:55	108-90-7	
Chloroethane	1.0 U	ug/L	1.0	0.64	1		05/22/21 21:55	75-00-3	IH
Chloroform	1.0 U	ug/L	1.0	0.39	1		05/22/21 21:55	67-66-3	
Chloromethane	1.0 U	ug/L	1.0	0.40	1		05/22/21 21:55	74-87-3	
Cyclohexane	10.0 U	ug/L	10.0	0.33	1		05/22/21 21:55	110-82-7	
1,2-Dibromo-3-chloropropane	5.0 U	ug/L	5.0	0.55	1		05/22/21 21:55	96-12-8	
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		05/22/21 21:55	124-48-1	
1,2-Dibromoethane (EDB)	1.0 U	ug/L	1.0	0.44	1		05/22/21 21:55	106-93-4	
1,2-Dichlorobenzene	1.0 U	ug/L	1.0	0.38	1		05/22/21 21:55	95-50-1	IH
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		05/22/21 21:55	541-73-1	
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		05/22/21 21:55	106-46-7	
Dichlorodifluoromethane	1.0 U	ug/L	1.0	0.63	1		05/22/21 21:55	75-71-8	IH
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.24	1		05/22/21 21:55	75-34-3	
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		05/22/21 21:55	107-06-2	
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		05/22/21 21:55	540-59-0	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		05/22/21 21:55	75-35-4	
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		05/22/21 21:55	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		05/22/21 21:55	156-60-5	
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		05/22/21 21:55	78-87-5	
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		05/22/21 21:55	10061-01-5	
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		05/22/21 21:55	10061-02-6	
Ethylbenzene	1.0 U	ug/L	1.0	0.40	1		05/22/21 21:55	100-41-4	
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		05/22/21 21:55	591-78-6	
Isopropylbenzene (Cumene)	1.0 U	ug/L	1.0	0.47	1		05/22/21 21:55	98-82-8	IH
Methyl acetate	5.0 U	ug/L	5.0	0.55	1		05/22/21 21:55	79-20-9	
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		05/22/21 21:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		05/22/21 21:55	108-10-1	
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		05/22/21 21:55	1634-04-4	
Styrene	1.0 U	ug/L	1.0	0.33	1		05/22/21 21:55	100-42-5	IH
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		05/22/21 21:55	79-34-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		05/22/21 21:55	127-18-4	
Toluene	1.0 U	ug/L	1.0	0.32	1		05/22/21 21:55	108-88-3	
1,2,3-Trichlorobenzene	2.0 U	ug/L	2.0	0.89	1		05/22/21 21:55	87-61-6	
1,2,4-Trichlorobenzene	1.0 U	ug/L	1.0	0.73	1		05/22/21 21:55	120-82-1	IH
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		05/22/21 21:55	71-55-6	
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		05/22/21 21:55	79-00-5	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		05/22/21 21:55	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

Sample: CO212A-PZM	Lab ID: 30421885002	Collected: 05/20/21 08:55	Received: 05/20/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Pace Analytical Services - Greensburg								
Trichlorofluoromethane	1.0 U	ug/L	1.0	0.51	1		05/22/21 21:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	50.0 U	ug/L	50.0	3.0	1		05/22/21 21:55	76-13-1	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		05/22/21 21:55	75-01-4	
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		05/22/21 21:55	1330-20-7	
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		05/22/21 21:55	179601-23-1	
o-Xylene	1.0 U	ug/L	1.0	0.41	1		05/22/21 21:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		1		05/22/21 21:55	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1		05/22/21 21:55	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		05/22/21 21:55	2037-26-5	
Dibromofluoromethane (S)	105	%.	70-130		1		05/22/21 21:55	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

Sample: CO05B-PZM	Lab ID: 30421885003	Collected: 05/20/21 11:40	Received: 05/20/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
Acetone	100 U	ug/L	100	56.1	10		05/22/21 23:33	67-64-1	
Benzene	2550	ug/L	10.0	3.4	10		05/22/21 23:33	71-43-2	
Bromodichloromethane	10.0 U	ug/L	10.0	3.5	10		05/22/21 23:33	75-27-4	IH
Bromoform	10.0 U	ug/L	10.0	5.6	10		05/22/21 23:33	75-25-2	
Bromomethane	10.0 U	ug/L	10.0	7.3	10		05/22/21 23:33	74-83-9	
2-Butanone (MEK)	100 U	ug/L	100	15.2	10		05/22/21 23:33	78-93-3	
Carbon disulfide	10.0 U	ug/L	10.0	3.2	10		05/22/21 23:33	75-15-0	
Carbon tetrachloride	10.0 U	ug/L	10.0	4.4	10		05/22/21 23:33	56-23-5	
Chlorobenzene	10.0 U	ug/L	10.0	2.6	10		05/22/21 23:33	108-90-7	
Chloroethane	10.0 U	ug/L	10.0	6.4	10		05/22/21 23:33	75-00-3	IH
Chloroform	10.0 U	ug/L	10.0	3.9	10		05/22/21 23:33	67-66-3	
Chloromethane	10.0 U	ug/L	10.0	4.0	10		05/22/21 23:33	74-87-3	
Cyclohexane	100 U	ug/L	100	3.3	10		05/22/21 23:33	110-82-7	
1,2-Dibromo-3-chloropropane	50.0 U	ug/L	50.0	5.5	10		05/22/21 23:33	96-12-8	
Dibromochloromethane	10.0 U	ug/L	10.0	4.3	10		05/22/21 23:33	124-48-1	
1,2-Dibromoethane (EDB)	10.0 U	ug/L	10.0	4.4	10		05/22/21 23:33	106-93-4	
1,2-Dichlorobenzene	10.0 U	ug/L	10.0	3.8	10		05/22/21 23:33	95-50-1	IH
1,3-Dichlorobenzene	10.0 U	ug/L	10.0	4.5	10		05/22/21 23:33	541-73-1	
1,4-Dichlorobenzene	10.0 U	ug/L	10.0	4.8	10		05/22/21 23:33	106-46-7	
Dichlorodifluoromethane	10.0 U	ug/L	10.0	6.3	10		05/22/21 23:33	75-71-8	IH
1,1-Dichloroethane	10.0 U	ug/L	10.0	2.4	10		05/22/21 23:33	75-34-3	
1,2-Dichloroethane	10.0 U	ug/L	10.0	3.3	10		05/22/21 23:33	107-06-2	
1,2-Dichloroethene (Total)	20.0 U	ug/L	20.0	6.6	10		05/22/21 23:33	540-59-0	
1,1-Dichloroethene	10.0 U	ug/L	10.0	2.4	10		05/22/21 23:33	75-35-4	
cis-1,2-Dichloroethene	10.0 U	ug/L	10.0	3.8	10		05/22/21 23:33	156-59-2	
trans-1,2-Dichloroethene	10.0 U	ug/L	10.0	2.8	10		05/22/21 23:33	156-60-5	
1,2-Dichloropropane	10.0 U	ug/L	10.0	2.8	10		05/22/21 23:33	78-87-5	
cis-1,3-Dichloropropene	10.0 U	ug/L	10.0	2.9	10		05/22/21 23:33	10061-01-5	
trans-1,3-Dichloropropene	10.0 U	ug/L	10.0	3.2	10		05/22/21 23:33	10061-02-6	
Ethylbenzene	163	ug/L	10.0	4.0	10		05/22/21 23:33	100-41-4	
2-Hexanone	100 U	ug/L	100	5.8	10		05/22/21 23:33	591-78-6	
Isopropylbenzene (Cumene)	5.0J	ug/L	10.0	4.7	10		05/22/21 23:33	98-82-8	IH
Methyl acetate	50.0 U	ug/L	50.0	5.5	10		05/22/21 23:33	79-20-9	
Methylene Chloride	10.0 U	ug/L	10.0	6.4	10		05/22/21 23:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	100 U	ug/L	100	4.2	10		05/22/21 23:33	108-10-1	
Methyl-tert-butyl ether	10.0 U	ug/L	10.0	2.5	10		05/22/21 23:33	1634-04-4	
Styrene	5.2J	ug/L	10.0	3.3	10		05/22/21 23:33	100-42-5	IH
1,1,2,2-Tetrachloroethane	10.0 U	ug/L	10.0	4.7	10		05/22/21 23:33	79-34-5	
Tetrachloroethene	10.0 U	ug/L	10.0	3.9	10		05/22/21 23:33	127-18-4	
Toluene	176	ug/L	10.0	3.2	10		05/22/21 23:33	108-88-3	
1,2,3-Trichlorobenzene	20.0 U	ug/L	20.0	8.9	10		05/22/21 23:33	87-61-6	
1,2,4-Trichlorobenzene	10.0 U	ug/L	10.0	7.3	10		05/22/21 23:33	120-82-1	IH
1,1,1-Trichloroethane	10.0 U	ug/L	10.0	3.8	10		05/22/21 23:33	71-55-6	
1,1,2-Trichloroethane	10.0 U	ug/L	10.0	3.3	10		05/22/21 23:33	79-00-5	
Trichloroethene	10.0 U	ug/L	10.0	2.9	10		05/22/21 23:33	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

Sample: CO05B-PZM	Lab ID: 30421885003	Collected: 05/20/21 11:40	Received: 05/20/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
Trichlorofluoromethane	10.0 U	ug/L	10.0	5.1	10		05/22/21 23:33	75-69-4	
1,1,2-Trichlorotrifluoroethane	500 U	ug/L	500	30.5	10		05/22/21 23:33	76-13-1	
Vinyl chloride	10.0 U	ug/L	10.0	2.9	10		05/22/21 23:33	75-01-4	
Xylene (Total)	296	ug/L	30.0	13.5	10		05/22/21 23:33	1330-20-7	
m&p-Xylene	189	ug/L	20.0	9.4	10		05/22/21 23:33	179601-23-1	
o-Xylene	107	ug/L	10.0	4.1	10		05/22/21 23:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%.	70-130		10		05/22/21 23:33	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		10		05/22/21 23:33	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		10		05/22/21 23:33	2037-26-5	
Dibromofluoromethane (S)	101	%.	70-130		10		05/22/21 23:33	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

Sample: Field Blank		Lab ID: 30421885004		Collected:	Received:	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B Pace Analytical Services - Greensburg							
Acetone	10.0 U	ug/L	10.0	5.6	1		05/22/21 18:14	67-64-1	
Benzene	1.0 U	ug/L	1.0	0.34	1		05/22/21 18:14	71-43-2	
Bromodichloromethane	1.0 U	ug/L	1.0	0.35	1		05/22/21 18:14	75-27-4	IH
Bromoform	1.0 U	ug/L	1.0	0.56	1		05/22/21 18:14	75-25-2	
Bromomethane	1.0 U	ug/L	1.0	0.73	1		05/22/21 18:14	74-83-9	
2-Butanone (MEK)	10.0 U	ug/L	10.0	1.5	1		05/22/21 18:14	78-93-3	
Carbon disulfide	1.0 U	ug/L	1.0	0.32	1		05/22/21 18:14	75-15-0	
Carbon tetrachloride	1.0 U	ug/L	1.0	0.44	1		05/22/21 18:14	56-23-5	
Chlorobenzene	1.0 U	ug/L	1.0	0.26	1		05/22/21 18:14	108-90-7	
Chloroethane	1.0 U	ug/L	1.0	0.64	1		05/22/21 18:14	75-00-3	IH
Chloroform	1.0 U	ug/L	1.0	0.39	1		05/22/21 18:14	67-66-3	
Chloromethane	1.0 U	ug/L	1.0	0.40	1		05/22/21 18:14	74-87-3	
Cyclohexane	10.0 U	ug/L	10.0	0.33	1		05/22/21 18:14	110-82-7	
1,2-Dibromo-3-chloropropane	5.0 U	ug/L	5.0	0.55	1		05/22/21 18:14	96-12-8	
Dibromochloromethane	1.0 U	ug/L	1.0	0.43	1		05/22/21 18:14	124-48-1	
1,2-Dibromoethane (EDB)	1.0 U	ug/L	1.0	0.44	1		05/22/21 18:14	106-93-4	
1,2-Dichlorobenzene	1.0 U	ug/L	1.0	0.38	1		05/22/21 18:14	95-50-1	IH
1,3-Dichlorobenzene	1.0 U	ug/L	1.0	0.45	1		05/22/21 18:14	541-73-1	
1,4-Dichlorobenzene	1.0 U	ug/L	1.0	0.48	1		05/22/21 18:14	106-46-7	
Dichlorodifluoromethane	1.0 U	ug/L	1.0	0.63	1		05/22/21 18:14	75-71-8	IH
1,1-Dichloroethane	1.0 U	ug/L	1.0	0.24	1		05/22/21 18:14	75-34-3	
1,2-Dichloroethane	1.0 U	ug/L	1.0	0.33	1		05/22/21 18:14	107-06-2	
1,2-Dichloroethene (Total)	2.0 U	ug/L	2.0	0.66	1		05/22/21 18:14	540-59-0	
1,1-Dichloroethene	1.0 U	ug/L	1.0	0.24	1		05/22/21 18:14	75-35-4	
cis-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.38	1		05/22/21 18:14	156-59-2	
trans-1,2-Dichloroethene	1.0 U	ug/L	1.0	0.28	1		05/22/21 18:14	156-60-5	
1,2-Dichloropropane	1.0 U	ug/L	1.0	0.28	1		05/22/21 18:14	78-87-5	
cis-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.29	1		05/22/21 18:14	10061-01-5	
trans-1,3-Dichloropropene	1.0 U	ug/L	1.0	0.32	1		05/22/21 18:14	10061-02-6	
Ethylbenzene	1.0 U	ug/L	1.0	0.40	1		05/22/21 18:14	100-41-4	
2-Hexanone	10.0 U	ug/L	10.0	0.58	1		05/22/21 18:14	591-78-6	
Isopropylbenzene (Cumene)	1.0 U	ug/L	1.0	0.47	1		05/22/21 18:14	98-82-8	IH
Methyl acetate	5.0 U	ug/L	5.0	0.55	1		05/22/21 18:14	79-20-9	
Methylene Chloride	1.0 U	ug/L	1.0	0.64	1		05/22/21 18:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	10.0 U	ug/L	10.0	0.42	1		05/22/21 18:14	108-10-1	
Methyl-tert-butyl ether	1.0 U	ug/L	1.0	0.25	1		05/22/21 18:14	1634-04-4	
Styrene	1.0 U	ug/L	1.0	0.33	1		05/22/21 18:14	100-42-5	IH
1,1,2,2-Tetrachloroethane	1.0 U	ug/L	1.0	0.47	1		05/22/21 18:14	79-34-5	
Tetrachloroethene	1.0 U	ug/L	1.0	0.39	1		05/22/21 18:14	127-18-4	
Toluene	1.0 U	ug/L	1.0	0.32	1		05/22/21 18:14	108-88-3	
1,2,3-Trichlorobenzene	2.0 U	ug/L	2.0	0.89	1		05/22/21 18:14	87-61-6	
1,2,4-Trichlorobenzene	1.0 U	ug/L	1.0	0.73	1		05/22/21 18:14	120-82-1	IH
1,1,1-Trichloroethane	1.0 U	ug/L	1.0	0.38	1		05/22/21 18:14	71-55-6	
1,1,2-Trichloroethane	1.0 U	ug/L	1.0	0.33	1		05/22/21 18:14	79-00-5	
Trichloroethene	1.0 U	ug/L	1.0	0.29	1		05/22/21 18:14	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

Sample: Field Blank		Lab ID: 30421885004		Collected:	Received:	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B Pace Analytical Services - Greensburg							
Trichlorofluoromethane	1.0 U	ug/L	1.0	0.51	1		05/22/21 18:14	75-69-4	
1,1,2-Trichlorotrifluoroethane	50.0 U	ug/L	50.0	3.0	1		05/22/21 18:14	76-13-1	
Vinyl chloride	1.0 U	ug/L	1.0	0.29	1		05/22/21 18:14	75-01-4	
Xylene (Total)	3.0 U	ug/L	3.0	1.4	1		05/22/21 18:14	1330-20-7	
m&p-Xylene	2.0 U	ug/L	2.0	0.94	1		05/22/21 18:14	179601-23-1	
o-Xylene	1.0 U	ug/L	1.0	0.41	1		05/22/21 18:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	70-130		1		05/22/21 18:14	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	70-130		1		05/22/21 18:14	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		05/22/21 18:14	2037-26-5	
Dibromofluoromethane (S)	109	%.	70-130		1		05/22/21 18:14	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

Sample: CO08A-PZM	Lab ID: 30421885005	Collected: 05/20/21 13:45	Received: 05/20/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B								
	Pace Analytical Services - Greensburg								
Acetone	100 U	ug/L	100	56.1	10		05/22/21 23:57	67-64-1	
Benzene	452	ug/L	10.0	3.4	10		05/22/21 23:57	71-43-2	
Bromodichloromethane	10.0 U	ug/L	10.0	3.5	10		05/22/21 23:57	75-27-4	IH
Bromoform	10.0 U	ug/L	10.0	5.6	10		05/22/21 23:57	75-25-2	
Bromomethane	10.0 U	ug/L	10.0	7.3	10		05/22/21 23:57	74-83-9	
2-Butanone (MEK)	100 U	ug/L	100	15.2	10		05/22/21 23:57	78-93-3	
Carbon disulfide	10.0 U	ug/L	10.0	3.2	10		05/22/21 23:57	75-15-0	
Carbon tetrachloride	10.0 U	ug/L	10.0	4.4	10		05/22/21 23:57	56-23-5	
Chlorobenzene	10.0 U	ug/L	10.0	2.6	10		05/22/21 23:57	108-90-7	
Chloroethane	10.0 U	ug/L	10.0	6.4	10		05/22/21 23:57	75-00-3	IH
Chloroform	10.0 U	ug/L	10.0	3.9	10		05/22/21 23:57	67-66-3	
Chloromethane	10.0 U	ug/L	10.0	4.0	10		05/22/21 23:57	74-87-3	
Cyclohexane	100 U	ug/L	100	3.3	10		05/22/21 23:57	110-82-7	
1,2-Dibromo-3-chloropropane	50.0 U	ug/L	50.0	5.5	10		05/22/21 23:57	96-12-8	
Dibromochloromethane	10.0 U	ug/L	10.0	4.3	10		05/22/21 23:57	124-48-1	
1,2-Dibromoethane (EDB)	10.0 U	ug/L	10.0	4.4	10		05/22/21 23:57	106-93-4	
1,2-Dichlorobenzene	10.0 U	ug/L	10.0	3.8	10		05/22/21 23:57	95-50-1	IH
1,3-Dichlorobenzene	10.0 U	ug/L	10.0	4.5	10		05/22/21 23:57	541-73-1	
1,4-Dichlorobenzene	10.0 U	ug/L	10.0	4.8	10		05/22/21 23:57	106-46-7	
Dichlorodifluoromethane	10.0 U	ug/L	10.0	6.3	10		05/22/21 23:57	75-71-8	IH
1,1-Dichloroethane	10.0 U	ug/L	10.0	2.4	10		05/22/21 23:57	75-34-3	
1,2-Dichloroethane	10.0 U	ug/L	10.0	3.3	10		05/22/21 23:57	107-06-2	
1,2-Dichloroethene (Total)	20.0 U	ug/L	20.0	6.6	10		05/22/21 23:57	540-59-0	
1,1-Dichloroethene	10.0 U	ug/L	10.0	2.4	10		05/22/21 23:57	75-35-4	
cis-1,2-Dichloroethene	10.0 U	ug/L	10.0	3.8	10		05/22/21 23:57	156-59-2	
trans-1,2-Dichloroethene	10.0 U	ug/L	10.0	2.8	10		05/22/21 23:57	156-60-5	
1,2-Dichloropropane	10.0 U	ug/L	10.0	2.8	10		05/22/21 23:57	78-87-5	
cis-1,3-Dichloropropene	10.0 U	ug/L	10.0	2.9	10		05/22/21 23:57	10061-01-5	
trans-1,3-Dichloropropene	10.0 U	ug/L	10.0	3.2	10		05/22/21 23:57	10061-02-6	
Ethylbenzene	342	ug/L	10.0	4.0	10		05/22/21 23:57	100-41-4	
2-Hexanone	100 U	ug/L	100	5.8	10		05/22/21 23:57	591-78-6	
Isopropylbenzene (Cumene)	22.2	ug/L	10.0	4.7	10		05/22/21 23:57	98-82-8	IH
Methyl acetate	50.0 U	ug/L	50.0	5.5	10		05/22/21 23:57	79-20-9	
Methylene Chloride	10.0 U	ug/L	10.0	6.4	10		05/22/21 23:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	100 U	ug/L	100	4.2	10		05/22/21 23:57	108-10-1	
Methyl-tert-butyl ether	10.0 U	ug/L	10.0	2.5	10		05/22/21 23:57	1634-04-4	
Styrene	159	ug/L	10.0	3.3	10		05/22/21 23:57	100-42-5	IH
1,1,2,2-Tetrachloroethane	10.0 U	ug/L	10.0	4.7	10		05/22/21 23:57	79-34-5	
Tetrachloroethene	10.0 U	ug/L	10.0	3.9	10		05/22/21 23:57	127-18-4	
Toluene	2590	ug/L	10.0	3.2	10		05/22/21 23:57	108-88-3	
1,2,3-Trichlorobenzene	20.0 U	ug/L	20.0	8.9	10		05/22/21 23:57	87-61-6	
1,2,4-Trichlorobenzene	10.0 U	ug/L	10.0	7.3	10		05/22/21 23:57	120-82-1	IH
1,1,1-Trichloroethane	10.0 U	ug/L	10.0	3.8	10		05/22/21 23:57	71-55-6	
1,1,2-Trichloroethane	10.0 U	ug/L	10.0	3.3	10		05/22/21 23:57	79-00-5	
Trichloroethene	10.0 U	ug/L	10.0	2.9	10		05/22/21 23:57	79-01-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

Sample: CO08A-PZM	Lab ID: 30421885005	Collected: 05/20/21 13:45	Received: 05/20/21 22:15	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B							
		Pace Analytical Services - Greensburg							
Trichlorofluoromethane	10.0 U	ug/L	10.0	5.1	10		05/22/21 23:57	75-69-4	
1,1,2-Trichlorotrifluoroethane	500 U	ug/L	500	30.5	10		05/22/21 23:57	76-13-1	
Vinyl chloride	10.0 U	ug/L	10.0	2.9	10		05/22/21 23:57	75-01-4	
Xylene (Total)	8040	ug/L	30.0	13.5	10		05/22/21 23:57	1330-20-7	
m&p-Xylene	5590	ug/L	20.0	9.4	10		05/22/21 23:57	179601-23-1	
o-Xylene	2450	ug/L	10.0	4.1	10		05/22/21 23:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%.	70-130		10		05/22/21 23:57	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	70-130		10		05/22/21 23:57	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		10		05/22/21 23:57	2037-26-5	
Dibromofluoromethane (S)	104	%.	70-130		10		05/22/21 23:57	1868-53-7	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

QC Batch: 449250

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260B MSV

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30421885001, 30421885002, 30421885003, 30421885004, 30421885005

METHOD BLANK: 2167930

Matrix: Water

Associated Lab Samples: 30421885001, 30421885002, 30421885003, 30421885004, 30421885005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	1.0 U	1.0	0.38	05/22/21 16:11	IH
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0	0.47	05/22/21 16:11	
1,1,2-Trichloroethane	ug/L	1.0 U	1.0	0.33	05/22/21 16:11	
1,1,2-Trichlorotrifluoroethane	ug/L	50.0 U	50.0	3.0	05/22/21 16:11	
1,1-Dichloroethane	ug/L	1.0 U	1.0	0.24	05/22/21 16:11	
1,1-Dichloroethene	ug/L	1.0 U	1.0	0.24	05/22/21 16:11	
1,2,3-Trichlorobenzene	ug/L	2.0 U	2.0	0.89	05/22/21 16:11	
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0	0.73	05/22/21 16:11	IH
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	5.0	0.55	05/22/21 16:11	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	1.0	0.44	05/22/21 16:11	
1,2-Dichlorobenzene	ug/L	1.0 U	1.0	0.38	05/22/21 16:11	
1,2-Dichloroethane	ug/L	1.0 U	1.0	0.33	05/22/21 16:11	
1,2-Dichloroethene (Total)	ug/L	2.0 U	2.0	0.66	05/22/21 16:11	
1,2-Dichloropropane	ug/L	1.0 U	1.0	0.28	05/22/21 16:11	
1,3-Dichlorobenzene	ug/L	1.0 U	1.0	0.45	05/22/21 16:11	
1,4-Dichlorobenzene	ug/L	1.0 U	1.0	0.48	05/22/21 16:11	
2-Butanone (MEK)	ug/L	10.0 U	10.0	1.5	05/22/21 16:11	
2-Hexanone	ug/L	10.0 U	10.0	0.58	05/22/21 16:11	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	10.0	0.42	05/22/21 16:11	
Acetone	ug/L	10.0 U	10.0	5.6	05/22/21 16:11	
Benzene	ug/L	1.0 U	1.0	0.34	05/22/21 16:11	
Bromodichloromethane	ug/L	1.0 U	1.0	0.35	05/22/21 16:11	IH
Bromoform	ug/L	1.0 U	1.0	0.56	05/22/21 16:11	
Bromomethane	ug/L	1.0 U	1.0	0.73	05/22/21 16:11	
Carbon disulfide	ug/L	1.0 U	1.0	0.32	05/22/21 16:11	
Carbon tetrachloride	ug/L	1.0 U	1.0	0.44	05/22/21 16:11	
Chlorobenzene	ug/L	1.0 U	1.0	0.26	05/22/21 16:11	
Chloroethane	ug/L	1.0 U	1.0	0.64	05/22/21 16:11	IH
Chloroform	ug/L	1.0 U	1.0	0.39	05/22/21 16:11	
Chloromethane	ug/L	1.0 U	1.0	0.40	05/22/21 16:11	
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.38	05/22/21 16:11	
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.29	05/22/21 16:11	
Cyclohexane	ug/L	10.0 U	10.0	0.33	05/22/21 16:11	
Dibromochloromethane	ug/L	1.0 U	1.0	0.43	05/22/21 16:11	
Dichlorodifluoromethane	ug/L	1.0 U	1.0	0.63	05/22/21 16:11	IH
Ethylbenzene	ug/L	1.0 U	1.0	0.40	05/22/21 16:11	
Isopropylbenzene (Cumene)	ug/L	1.0 U	1.0	0.47	05/22/21 16:11	IH
m&p-Xylene	ug/L	2.0 U	2.0	0.94	05/22/21 16:11	
Methyl acetate	ug/L	5.0 U	5.0	0.55	05/22/21 16:11	
Methyl-tert-butyl ether	ug/L	1.0 U	1.0	0.25	05/22/21 16:11	

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

METHOD BLANK: 2167930

Matrix: Water

Associated Lab Samples: 30421885001, 30421885002, 30421885003, 30421885004, 30421885005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Methylene Chloride	ug/L	1.0 U	1.0	0.64	05/22/21 16:11	
o-Xylene	ug/L	1.0 U	1.0	0.41	05/22/21 16:11	
Styrene	ug/L	1.0 U	1.0	0.33	05/22/21 16:11	IH
Tetrachloroethene	ug/L	1.0 U	1.0	0.39	05/22/21 16:11	
Toluene	ug/L	1.0 U	1.0	0.32	05/22/21 16:11	
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0	0.28	05/22/21 16:11	
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0	0.32	05/22/21 16:11	
Trichloroethene	ug/L	1.0 U	1.0	0.29	05/22/21 16:11	
Trichlorofluoromethane	ug/L	1.0 U	1.0	0.51	05/22/21 16:11	
Vinyl chloride	ug/L	1.0 U	1.0	0.29	05/22/21 16:11	
Xylene (Total)	ug/L	3.0 U	3.0	1.4	05/22/21 16:11	
1,2-Dichloroethane-d4 (S)	%.	106	70-130		05/22/21 16:11	
4-Bromofluorobenzene (S)	%.	103	70-130		05/22/21 16:11	
Dibromofluoromethane (S)	%.	108	70-130		05/22/21 16:11	
Toluene-d8 (S)	%.	92	70-130		05/22/21 16:11	

LABORATORY CONTROL SAMPLE: 2167931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.7	103	70-130	IH
1,1,2,2-Tetrachloroethane	ug/L	20	20.7	104	70-130	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1,2-Trichlorotrifluoroethane	ug/L	20	20.5J	103	61-138	
1,1-Dichloroethane	ug/L	20	18.3	91	70-130	
1,1-Dichloroethene	ug/L	20	18.8	94	70-130	
1,2,3-Trichlorobenzene	ug/L	20	17.5	88	70-130	
1,2,4-Trichlorobenzene	ug/L	20	18.1	91	70-130	IH
1,2-Dibromo-3-chloropropane	ug/L	20	20.2	101	59-122	
1,2-Dibromoethane (EDB)	ug/L	20	19.2	96	70-130	
1,2-Dichlorobenzene	ug/L	20	18.9	95	70-130	IH
1,2-Dichloroethane	ug/L	20	18.6	93	70-130	
1,2-Dichloroethene (Total)	ug/L	40	36.1	90	70-130	
1,2-Dichloropropane	ug/L	20	17.6	88	70-130	
1,3-Dichlorobenzene	ug/L	20	19.0	95	70-130	
1,4-Dichlorobenzene	ug/L	20	18.2	91	70-130	
2-Butanone (MEK)	ug/L	20	17.4	87	70-130	
2-Hexanone	ug/L	20	17.3	87	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.5	87	70-130	
Acetone	ug/L	20	20.8	104	67-173	
Benzene	ug/L	20	19.4	97	70-130	
Bromodichloromethane	ug/L	20	19.6	98	70-130	IH
Bromoform	ug/L	20	21.0	105	63-119	
Bromomethane	ug/L	20	17.4	87	24-159	
Carbon disulfide	ug/L	20	19.7	98	57-132	

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

LABORATORY CONTROL SAMPLE: 2167931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	20	19.6	98	70-130	
Chlorobenzene	ug/L	20	18.9	94	70-130	
Chloroethane	ug/L	20	25.1	126	62-145 IH	
Chloroform	ug/L	20	18.5	93	70-130	
Chloromethane	ug/L	20	18.1	91	66-140	
cis-1,2-Dichloroethene	ug/L	20	17.9	90	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Cyclohexane	ug/L	20	15.6	78	63-128	
Dibromochloromethane	ug/L	20	19.0	95	70-130	
Dichlorodifluoromethane	ug/L	20	26.0	130	62-162 IH	
Ethylbenzene	ug/L	20	18.2	91	70-130	
Isopropylbenzene (Cumene)	ug/L	20	19.7	99	70-130 IH	
m&p-Xylene	ug/L	40	36.5	91	70-130	
Methyl acetate	ug/L	20	19.4	97	37-158	
Methyl-tert-butyl ether	ug/L	20	17.7	88	70-130	
Methylene Chloride	ug/L	20	17.4	87	70-130	
o-Xylene	ug/L	20	17.6	88	70-130	
Styrene	ug/L	20	18.3	92	70-130 IH	
Tetrachloroethene	ug/L	20	18.1	91	70-130	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.4	102	70-130	
Trichloroethene	ug/L	20	19.1	95	70-130	
Trichlorofluoromethane	ug/L	20	25.2	126	70-130	
Vinyl chloride	ug/L	20	21.9	109	70-130	
Xylene (Total)	ug/L	60	54.1	90	70-130	
1,2-Dichloroethane-d4 (S)	%.			105	70-130	
4-Bromofluorobenzene (S)	%.			100	70-130	
Dibromofluoromethane (S)	%.			104	70-130	
Toluene-d8 (S)	%.			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2167932

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		30421447002	Result	Spike Conc.	Spike Conc.	Result	% Rec	Result	% Rec				
1,1,1-Trichloroethane	ug/L	1.0 U	20	20	17.9	17.7	90	89	55-146	1	30	IH	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.7	15.6	83	78	55-118	7	30		
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	15.7	15.0	78	75	61-122	5	30		
1,1,2-	ug/L	50.0 U	20	20	17.0J	14.1J	85	70	42-134		30		
Trichlorotrifluoroethane													
1,1-Dichloroethane	ug/L	0.25J	20	20	16.5	15.9	81	78	59-130	4	30		
1,1-Dichloroethene	ug/L	1.0 U	20	20	16.9	16.2	84	81	52-119	4	30		
1,2,3-Trichlorobenzene	ug/L	2.0 U	20	20	13.5	12.6	67	63	45-126	7	30		
1,2,4-Trichlorobenzene	ug/L	1.0 U	20	20	14.1	12.9	71	65	38-146	9	30	IH	
1,2-Dibromo-3-chloropropane	ug/L	5.0 U	20	20	15.6	14.6	78	73	32-112	7	30		

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation GW-Revised Report

Pace Project No.: 30421885

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2167932		2167933									
Parameter	Units	MS		MSD		MS		MSD		% Rec		Max	
		30421447002	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	Limits	RPD	RPD	Qual	
1,2-Dibromoethane (EDB)	ug/L	1.0 U	20	20	14.8	15.0	74	75	61-116	1	30		
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	14.7	13.6	74	68	58-126	7	30	IH	
1,2-Dichloroethane	ug/L	1.0 U	20	20	15.5	15.2	78	76	49-135	2	30		
1,2-Dichloroethene (Total)	ug/L	2.0 U	40	40	31.3	30.9	78	77	61-119	1	30		
1,2-Dichloropropane	ug/L	1.0 U	20	20	15.2	14.5	76	72	67-121	5	30		
1,3-Dichlorobenzene	ug/L	1.0 U	20	20	13.8	13.4	69	67	56-130	3	30		
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	13.7	12.7	69	63	60-121	8	30		
2-Butanone (MEK)	ug/L	10.0 U	20	20	14.8	12.6	74	63	59-138	16	30		
2-Hexanone	ug/L	10.0 U	20	20	14.4	11.8	72	59	66-123	20	30	ML	
4-Methyl-2-pentanone (MIBK)	ug/L	10.0 U	20	20	14.4	12.8	72	64	70-130	12	30	ML	
Acetone	ug/L	10.0 U	20	20	21.1	18.3	89	75	57-140	14	30		
Benzene	ug/L	1.0 U	20	20	16.4	15.6	82	78	50-149	5	30		
Bromodichloromethane	ug/L	1.0 U	20	20	16.0	15.8	80	79	46-131	1	30	IH	
Bromoform	ug/L	1.0 U	20	20	16.8	15.7	84	78	30-119	7	30		
Bromomethane	ug/L	1.0 U	20	20	2.3	3.0	11	15	10-163	27	30		
Carbon disulfide	ug/L	1.6	20	20	18.5	15.3	84	69	41-116	19	30		
Carbon tetrachloride	ug/L	1.0 U	20	20	16.4	15.5	82	78	55-119	5	30		
Chlorobenzene	ug/L	1.0 U	20	20	15.0	14.4	75	72	66-124	4	30		
Chloroethane	ug/L	1.0 U	20	20	28.7	27.0	143	135	45-162	6	30	IH	
Chloroform	ug/L	1.0 U	20	20	15.5	14.9	78	74	56-123	4	30		
Chloromethane	ug/L	1.0 U	20	20	14.6	14.0	73	70	49-150	4	30		
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	15.3	15.2	76	76	63-116	0	30		
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.4	14.0	72	70	46-119	3	30		
Cyclohexane	ug/L	10.0 U	20	20	12.4	10.8	62	54	51-130	13	30		
Dibromochloromethane	ug/L	1.0 U	20	20	15.2	14.1	76	70	42-120	8	30		
Dichlorodifluoromethane	ug/L	1.0 U	20	20	22.4	22.8	112	114	59-155	2	30	IH	
Ethylbenzene	ug/L	1.0 U	20	20	14.3	13.6	72	68	63-135	5	30		
Isopropylbenzene (Cumene)	ug/L	1.0 U	20	20	15.7	14.7	79	73	50-167	7	30	IH	
m&p-Xylene	ug/L	2.0 U	40	40	28.3	26.9	71	67	63-135	5	30		
Methyl acetate	ug/L	5.0 U	20	20	13.6	11.6	68	58	17-145	16	30		
Methyl-tert-butyl ether	ug/L	1.0 U	20	20	14.8	12.3	74	62	53-123	18	30		
Methylene Chloride	ug/L	1.0 U	20	20	14.4	14.2	72	71	57-132	1	30		
o-Xylene	ug/L	1.0 U	20	20	13.8	13.6	68	66	57-133	1	30		
Styrene	ug/L	1.0 U	20	20	14.3	13.6	70	67	58-130	5	30	IH	
Tetrachloroethene	ug/L	1.0 U	20	20	14.5	13.9	72	70	61-132	4	30		
Toluene	ug/L	1.0	20	20	15.9	15.3	74	71	59-139	4	30		
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	16.1	15.7	80	79	60-124	2	30		
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.3	14.3	77	72	48-121	7	30		
Trichloroethene	ug/L	15.8	20	20	31.2	30.0	77	71	63-128	4	30		
Trichlorofluoromethane	ug/L	1.0 U	20	20	20.7	21.8	104	109	70-152	5	30		
Vinyl chloride	ug/L	1.0 U	20	20	18.9	19.1	94	96	67-141	1	30		
Xylene (Total)	ug/L	3.0 U	60	60	42.2	40.6	70	67	63-135	4	30		
1,2-Dichloroethane-d4 (S)	%.						106	106	70-130				
4-Bromofluorobenzene (S)	%.						106	100	70-130				

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2167932	2167933								
Parameter	Units	30421447002	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Dibromofluoromethane (S)	%.						109		103	70-130		
Toluene-d8 (S)	%.						97		95	70-130		

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.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: NE Delineation GW-Revised Report
Pace Project No.: 30421885

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.
TNTC - Too Numerous To Count
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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.
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.
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.

SAMPLE QUALIFIERS

- Sample: 30421885003
[1] Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
Sample: 30421885005
[1] Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

ANALYTE QUALIFIERS

- IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NE Delineation GW-Revised Report
 Pace Project No.: 30421885

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30421885001	Trip Blank	EPA 8260B	449250		
30421885002	CO212A-PZM	EPA 8260B	449250		
30421885003	CO05B-PZM	EPA 8260B	449250		
30421885004	Field Blank	EPA 8260B	449250		
30421885005	CO08A-PZM	EPA 8260B	449250		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.



www.paceches.com

CHAIN-OF-CUSTODY / Analytical Request #

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

Section A

Required Client Information:

Company:	Pace Analytical Group - TRA
Address:	100 Sparrows Point Blvd Sparrows Point, MD 21219
Email To:	mcjones@paceches.com
Phone:	301-922-0856
Requested Due Date/TAT:	5 days

Section C

Invoice Information:

Report To:	Business Cardade Matt DeJoria
Copy To:	S Kooij
PO Number:	
Project Name:	NZ Delundata G1
Project Manager:	Samantha Bayura
Project Profile #:	210 10 210

Section B

Required Project Information:

Attention:	Laura Sargent
Company Name:	Environmental Industries Group
Address:	1650 Das Peras Road, Suite 100, St. Louis, MO 63146
Phone Quote Reference:	
Site Location:	MD
STATE:	

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	VALID MATRIX CODES CODE MATRIX DRINKING WATER WATER WASTE WATER PRODUCT SOLID OIL WIPE AIR OTHER TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRA B=C=COMP)	# OF CONTAINERS			Pace Project No./Lab I.D.
					COLLECTED COMPOSITE START	COMPOSITE ENDPOINT	TIME	
1	Triip Blank	WTG	WTG	5/20/21	—	2	2	001
2	C0212A - P2m	WTG	WTG	5/20/21	8:55	3	3	002
3	C025B - P2m	WTG	WTG	5/20/21	11:40	3	3	003
4	Field Blank	WTG	WTG	5/20/21	14:30	3	3	004
5	C028R - P2m	WTG	WTG	5/20/21	14:45	3	3	005
6								
7								
8								
9								
10								
11								
12								

ADDITIONAL COMMENTS		RElinquished BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
Data Package Required? (Y/N):	<input checked="" type="checkbox"/>	Cherie SR	5/20/21	18:45	Pace	5/20/21	16:15		
Data Validation Required? (Y/N):	<input checked="" type="checkbox"/>	Prog	5/20/21	19:05	PDS Pace	5/20/21	19:15		
If data package is required, attach data package checklist.		OS Pace	5/20/21	20:15	MANID Uway	5/20/21	21:15	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SAMPLER NAME AND SIGNATURE									
PRINT Name of SAMPLER: Liscal Perrin									
SIGNATURE of SAMPLER:									
DATE Signed (MM/DD/YY): 5/20/21									

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.

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Temp in °C
Received on _____
Recei
ce (Y/N)
Custod
y Sealed
(Y/N)
Cooper
er (Y/N)

Samples intact
(Y/N)

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: TradePoint Atlantic

30421885

Project #

Courier: FedEx UPS USPS Client Commercial Pace Other _____

Tracking #: NIA

Label	MIC
LIMS Login	MIC

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

Thermometer Used 9 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 3.8 °C Correction Factor: -1 °C Final Temp: 3.7 °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:
Chain of Custody Present:	/			NIA	MIC ST201801
Chain of Custody Filled Out:	/			1.	
Chain of Custody Relinquished:	/			2.	
Sampler Name & Signature on COC:	/			3.	
Sample Labels match COC:	/			4.	
-Includes date/time/ID				5.	
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):	/			7.	
Rush Turn Around Time Requested:	/			8.	
Sufficient Volume:	/			9.	
Correct Containers Used:	/			10.	
-Pace Containers Used:	/				
Containers Intact:	/			11.	
Orthophosphate field filtered			/	12.	
Hex Cr Aqueous sample field filtered			/	13.	
Organic Samples checked for dechlorination:			/	14.	
Filtered volume received for Dissolved tests			/	15.	
All containers have been checked for preservation.		/	/	16.	
exceptions: (VOA) coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					
All containers meet method preservation requirements.	/			Initial when completed: MIC	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):		/		17.	
Trip Blank Present:	/			18.	
Trip Blank Custody Seals Present	/				
Rad Samples Screened < 0.5 mrem/hr			/	Initial when completed: _____ Date: _____	Survey Meter SN: _____

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

_____ A check in this box indicates that additional information has been stored in eReports.

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)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.