



Colonial Pipeline Company

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November 30, 2020

To: Dan Bowser, et al.

Re: **Colonial Pipeline SR 2448/Pipeline ROW
Incident Number 95827
Huntersville, North Carolina**

Dear Dan,

Colonial Pipeline Company (Colonial) is pleased to transmit the Monthly Monitoring Report as required by the September 25, 2020, Notice of Violation regarding the above-referenced incident. The report was prepared in conjunction with Apex Engineering, P.C.

As discussed during briefings, Colonial continues to perform assessment and product recovery activities.

If you have any questions or require additional information, please contact either myself at 770.819.3566 / jmorrison@colpipe.com or John Culbreath at 704.399.5259 / jculbrea@colpipe.com.

Respectfully,

Jeff D. Morrison
Environmental Program Specialist



**Monthly Monitoring Report
SR 2448 / Pipeline Right Of Way
Incident Number 95827**

Huntersville, Mecklenburg County, North Carolina 28078

November 30, 2020

Apex Job No.: CPC20126

Prepared for:

**Mr. John Wyatt
4295 Cromwell Rd. #311
Chattanooga, Tennessee 37421**

Prepared by:

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Prepared By:

A handwritten signature in blue ink, appearing to read 'Andrew Street'.

**Andrew Street, CHMM, RSM
Senior Project Manager**

Reviewed By:

A handwritten signature in blue ink, appearing to read 'Tom Naumann'.

**Tom Naumann, PG
Senior Scientist
NC License No. 2405**



**Matt Gorman, PE
Program Manager
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1.0 INTRODUCTION

This Monthly Monitoring Report presents the results of the groundwater monitoring, surface water monitoring, free product recovery, and water supply well abandonment activities performed at the Colonial Pipeline Company (CPC) Huntersville-Concord Road (State Road 2448 [SR 2448]) pipeline release site located near Huntersville, Mecklenburg County, North Carolina (the Site). An Initial Assessment Report (IAR) prepared for the Site was submitted to NCDEQ on October 30, 2020. This report details site monitoring and free product recovery activities and results subsequent to those reported in the October 30, 2020 IAR. Apex Companies, LLC (dba Apex Engineering, P.C.; Apex) prepared this Monthly Monitoring Report on behalf of CPC for submittal to the North Carolina Department of Environmental Quality (NCDEQ).

1.1 SITE HISTORY AND CHARACTERIZATION

The CPC Line 1 gasoline release was discovered on August 14, 2020, within the CPC right of way on the Oehler Nature Preserve, approximately 350 feet northeast of where the CPC pipelines cross SR 2448 (**Figure 1** and **Figure 2**). The release is referred to herein as the 2020-L1-SR2448 Release.

The area within a 1,500 foot radius of the Site is a mixture of low density residential properties, agricultural properties and wooded land. Properties within a 1,500 foot radius of the release area obtain potable water from public water supply or private water supply wells (**Figure 3**). The Site is located within the Yadkin Pee-Dee River Basin. North Prong Clarke Creek is located approximately 1,800 feet north of the release area and South Prong Clarke Creek is located approximately 2,700 feet south of the release area, both of which are characterized by the NCDEQ Division of Water Quality as Class C water bodies meaning that they are protected for non-drinking water purposes such as biological integrity, fishing, and infrequent secondary recreational purposes (i.e., wading).

Mecklenburg County is located within the Piedmont physiographic province, characterized by rolling hills and moderately steep valleys formed by stream erosion of upland areas. Average relief is less than 100 to 150 feet between the upland areas and the stream valleys. Elevations at the Site range from approximately 650 to 750 feet above mean sea level. The surficial soils at the Site consist almost entirely of fine-grained clayey to silty saprolite developed from the weathering of the underlying bedrock. The soil thickness ranges from a few feet to greater than 60 feet. Data obtained from completed borings indicate the Site is underlain by quartz diorite.

A typical hydrogeologic unit in the Piedmont province is characterized as a single water-bearing zone formed by the saprolite overburden (residuum) and the underlying consolidated bedrock. Saprolite is formed from in-situ chemical weathering of the parent bedrock and exhibits relic structures and textures of the parent rock. The saprolite hydrostratigraphic unit acts as a reservoir to receive and store water that discharges to nearby surface water bodies and recharges the underlying bedrock unit. Groundwater can occur under water table conditions in the saprolite where it fluctuates in response to recharge. Saprolite may also act hydraulically as a semi-confining unit if its permeability is much less than the permeability of the underlying bedrock. Surficial groundwater at the Site is estimated to flow in a general northerly and southerly direction (**Figure 4**). Groundwater in the bedrock unit can occur under confined, semi-confined, or unconfined conditions. Within the bedrock unit, groundwater is transmitted through, and stored in, secondary joints and fractures. Secondary porosity of the bedrock unit is dependent on size, density, and interconnections of the fractures. Bedrock porosity is generally much less than the porosity of saprolite. Distribution and interconnections of fractures can control local groundwater flow directions and velocities in bedrock.

Based on risk-based rules established under House Bill 765, Risk Based Corrective Action (RBCA) Rules, which were established for releases from petroleum underground storage tanks (USTs), are also applicable to non-UST releases of petroleum. Under the RBCA framework, corrective action objectives for impacted-groundwater at the Site are based on risk classification criteria and the associated remedial goals established under North Carolina 15A NCAC 2L .0506 regulations. The risk classification for a site is based on multiple factors, including the distance from the source area of a release to receptors such as surface water bodies and water supply wells. The risk classification for the Site is 'high risk' due to the presence of multiple water supply wells within 1,000 feet of the release (**Figure 3**). Groundwater remediation goals for sites classified as high risk are the 2L Groundwater Quality Standards.

2.0 WELL GAUGING AND FREE PRODUCT RECOVERY ACTIVITIES

Free product recovery efforts were initiated on August 14, 2020, immediately after the release was controlled. Sonic drill rigs were deployed to the Site on August 27, 2020 and September 1, 2020, respectively, to drill and install recovery wells in the release source area. Between August 27, 2020 and November 22, 2020, 47 recovery wells were installed within the release source area. As of November 22, 2020, 354,070 gallons of gasoline free product and 46,145 gallons of petroleum contact water have been recovered from the recovery well network. The recovery system was shut down for approximately 24 hours on November 9, 2020 to facilitate gauging of the monitoring and recovery well network under steady state conditions. The recovery well and monitoring well gauging data is presented in **Table 1** and **Table 2**, respectively. A groundwater potentiometric surface map is provided as **Figure 4** and a free product distribution map is provided as **Figure 5**.

Free product was separated from petroleum contact water in frac tanks. Recovered free product and petroleum contact water were transported to the Midwest Gas Company located in Columbus, Ohio, and Aaron Oil Company, Inc. located in Saraland, Alabama for recycling and disposal. Copies of bills of lading and waste manifests covering the reporting period will be provided to NCDEQ under separate cover.

3.0 GROUNDWATER INVESTIGATION ACTIVITIES AND RESULTS

Between August 27, 2020 and November 22, 2020, 68 monitoring wells were installed within and along the presumed outer perimeter of the release source area. A second round of monitoring well installation was initiated on October 30, 2020. The objective of the additional groundwater assessment work was to complete the horizontal and vertical delineation of petroleum impacted groundwater originating from Incident No. 95827. Monitoring wells were installed utilizing hollow stem auger, air rotary, and sonic drilling methods. Shallow monitoring wells are typically constructed as Type II wells with the well screen bracketing the water table. Deep monitoring wells are constructed with isolation casings extending from ground surface and tremie grouted approximately 10 feet into the consolidated bedrock unit, and an open borehole without casing or screen extends through the isolation casing and into the bedrock unit to allow for geophysical borehole logging. Installation of two-inch inner casing, screen, and filter pack is planned to complete the deep monitoring points as Type III wells in the near term following geophysical borehole logging. Boring logs generated after the IAR submission are provided as **Appendix A**. Monitoring well construction is ongoing. Additional boring logs will be provided with the next monthly submittal. New monitoring wells will be sampled in the near term and the results will be provided in the next Monthly Monitoring Report and provided to NCDEQ on or before December 30, 2020.

Well development was performed to evacuate any potable water and sediment introduced during the well drilling and installation process. Monitoring well development was performed by lowering a decontaminated submersible pump into the screen interval of the well, surging the pump to bring

sediment into suspension and pumping several well volumes until the purge water was generally free of sediment.

Each monitoring well present and without measurable free product at the time of the groundwater monitoring event for this reporting period was sampled between October 20-23, 2020. Prior to collecting groundwater samples, each monitoring well was purged of three water column volumes using a new high-density polyethylene bailer or a decontaminated stainless steel submersible pump. If a monitoring well went dry during the purging process, the monitoring well was subsequently sampled after adequate recharge. Field water quality measurements were recorded for pH, temperature, conductivity, dissolved oxygen, and oxidation reduction potential using a calibrated water quality meter. Water quality parameters were recorded in accordance with NCDEQ guidelines. Groundwater samples were collected in laboratory supplied bottleware, placed on ice, and transported, via chain-of-custody protocol, to Pace Analytical, LLC (Pace). Samples were analyzed for the presence of volatile organic compounds (VOCs) by EPA Method 6200, volatile petroleum hydrocarbon (VPH) by the MADEP Method, and lead by EPA method 6010D. Groundwater sampling logs are provided in **Appendix B**. Detections of analyzed constituents in monitoring wells are depicted on **Figure 6**. Analytical results are summarized in **Table 3** and copies of the laboratory reports are provided as **Appendix C**.

Weekly water supply well sampling was completed by Apex during the reporting period. Water supply well samples were collected in laboratory supplied bottleware, placed on ice, and transported, via standard chain-of-custody protocol, to Pace. Samples were analyzed for the presence of VOCs by EPA Method 6200, VPH by the MADEP Method, and lead by EPA method 6010D. Water supply well sampling results are depicted on **Figure 7** and summarized in **Table 4**. Copies of the laboratory reports are provided in **Appendix C**.

At the time of this submittal, there have been no detections of petroleum constituents above laboratory reporting limits in water supply well samples. In accordance with NCDEQ guidance, and based on current data, CPC will continue sampling residential water supply wells within 1,500 feet of the release area.

4.0 SURFACE WATER INVESTIGATION ACTIVITIES AND RESULTS

The Site is located within the Yadkin Pee-Dee River Basin. North Prong Clarke Creek is located approximately 1,800 feet north of the release area and South Prong Clarke Creek is located approximately 2,700 feet south of the release area, both of which are classified as Class C water bodies by the NCDEQ Division of Water Resources. A groundwater seep and ephemeral stream are located approximately 1,200 feet southeast of the release area. The ephemeral stream flows to South Prong Clarke Creek.

Surface water sampling was conducted by Environmental Planning Specialists, Inc. (EPS) at seven locations (SW-1 through SW-7) during the reporting period on October 31, 2020, November 5, 2020, and November 11, 2020. Surface water samples were also collected from groundwater seep location (SW Seep) and the receiving ephemeral stream (SW Confluence) on the above mentioned dates.

Surface water samples were collected in laboratory supplied bottleware, placed on ice, and transported, via chain-of-custody protocol, to Pace. Samples were analyzed for the presence of benzene, toluene, ethylbenzene, xylenes (BTEX) by EPA Method 8260D, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) by EPA Method 8015C. All surface water samples collected to date have been non-detect for the petroleum constituents analyzed. A surface water sample locations map, surface water sampling results, general surface water parameter measurements, and the associated laboratory analytical reports are provided in **Appendix D**.

5.0 WATER SUPPLY WELL ABANDONMENT

Access agreements to abandon the water supply wells (WSWs) located at 13937 Asbury Chapel Road and 12923 Asbury Chapel Road were received from the property owners and a permit to abandon the WSW was issued by Mecklenburg County Health Department. The submersible pumps were removed from the wells and the WSW was disinfected with chlorine. AECOM oversaw the WSW abandonment activities performed by a North Carolina licensed driller. The well abandonment records will be included with the next monthly submittal.

6.0 CONCLUSIONS

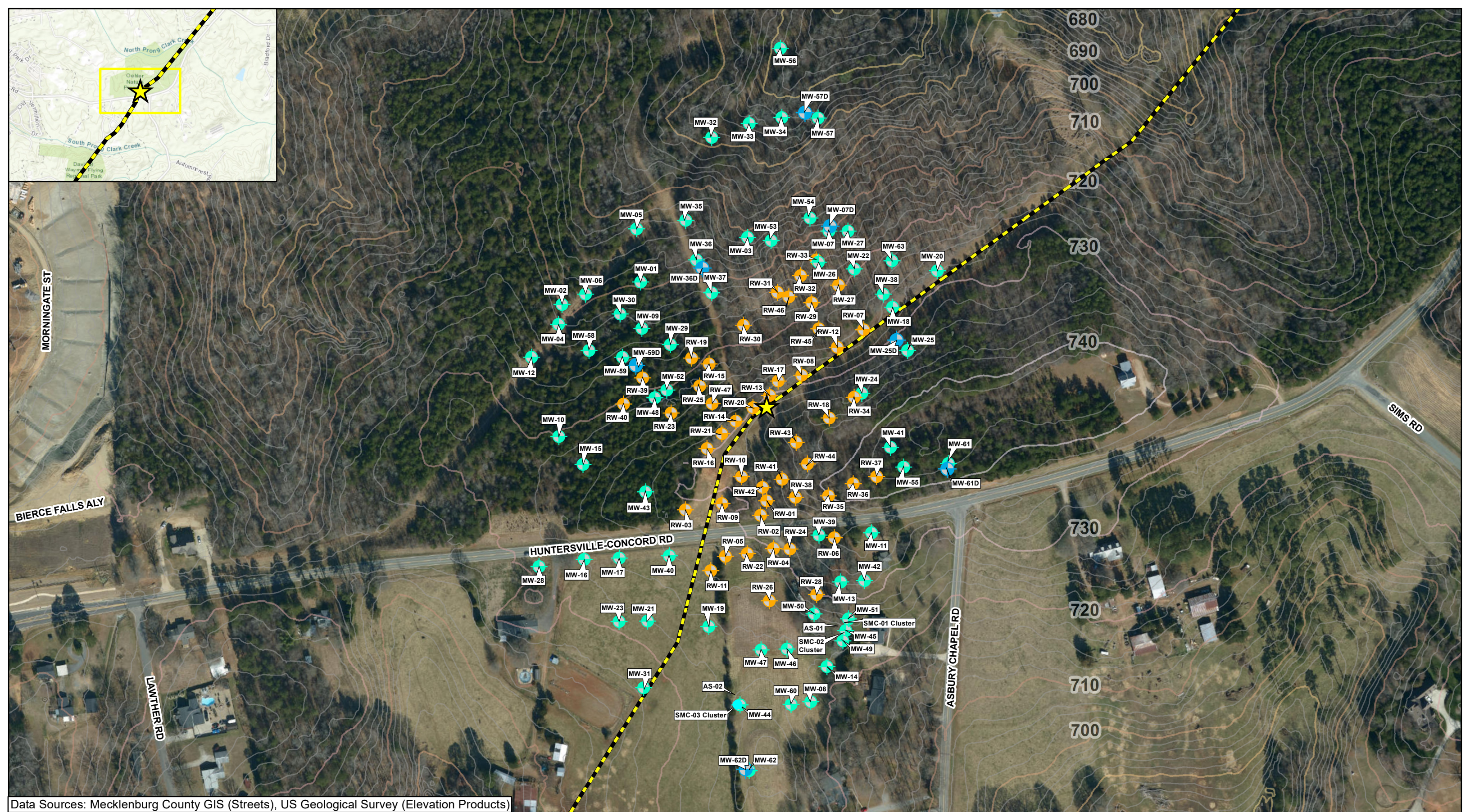
A total of 115 wells (68 monitoring wells and 47 recovery wells) were installed at the Site between August 27, 2020 and November 22, 2020. Well gauging and sampling results are generally consistent with those presented in IAR dated October 30, 2020. Weekly WSW and surface sampling continue to show no petroleum constituents. Sampling activities will continue at the interval prescribed by NCDEQ. Free product recovery activities will continue. As per NCDEQ's Notice dated September 25, 2020, groundwater monitoring reports will be submitted to the NCDEQ Mooresville Regional Office on the 30th of each month until that schedule is revised. A Comprehensive Site Assessment Report meeting the requirements of the most recent version of the UST Section Guidelines for Assessment for Non-UST Releases, will be submitted to the NCDEQ Mooresville Regional Office, the Mecklenburg County Public Health Director and the Manager for the Town of Huntersville, North Carolina by January 20, 2021.

FIGURES



Data Sources: US Geological Survey (Elevation Products)

	Checked By:	AS	<p align="center">Site Location Map Colonial Pipeline Company 2020-L1-SR2448 Release Huntersville, North Carolina</p> <p>0 405 810 1,620 2,430 Feet</p>			Figure		
	Created By:	JC				1		
	Scale:	1" = 754 FT				<p>★ Release Site</p>		
	Date/Time:	10/28/2020; 09:59						
	Project No.:	CPC20126						



Data Sources: Mecklenburg County GIS (Streets), US Geological Survey (Elevation Products)

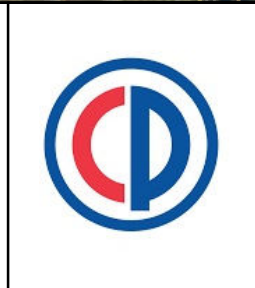
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	Project No.:	CPC20126

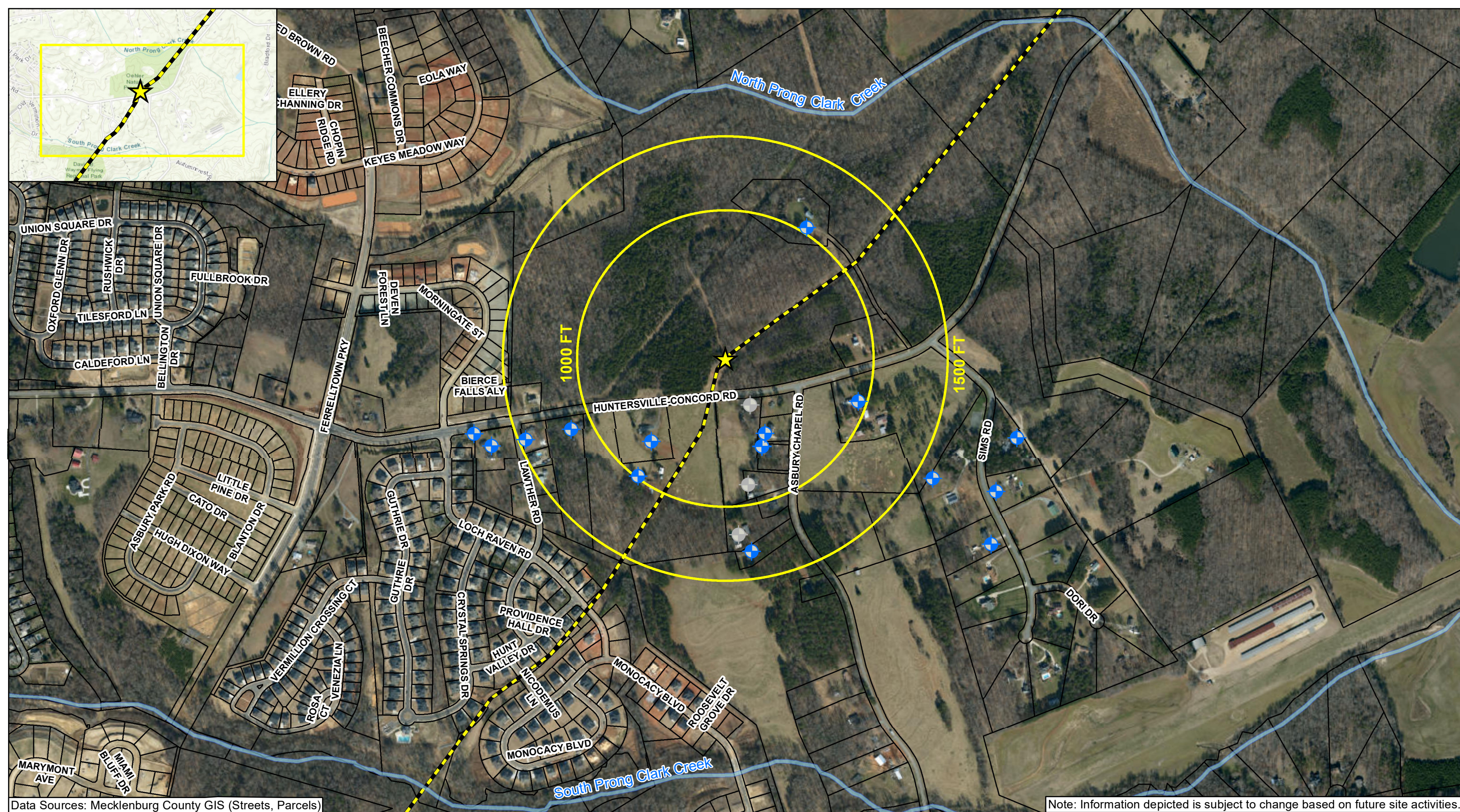
Site Plan
Colonial Pipeline Company
2020-L1-SR2448 Release
Huntersville, North Carolina

0 125 250 500 750
 Feet

Release Site	Monitoring Well
Pipeline	Deep Monitoring Well
	Recovery Well

NOTE: Deep monitoring wells are in the process of being completed. Isolation casings have been set. Rock drilling is underway.





Data Sources: Mecklenburg County GIS (Streets, Parcels)

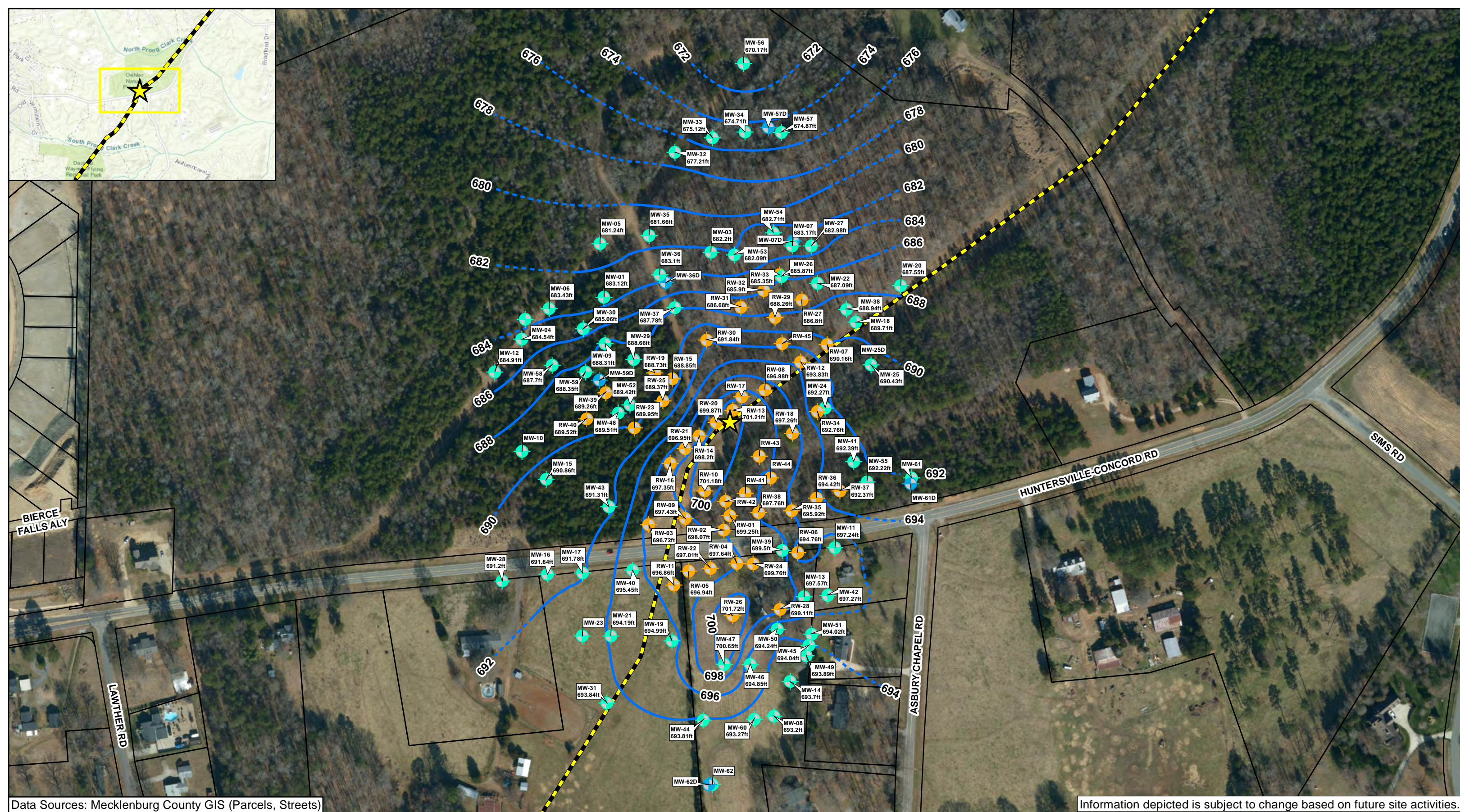
Note: Information depicted is subject to change based on future site activities.

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	Project No.:	CPC20126

Potential Receptor Map Colonial Pipeline Company 2020-L1-SR2448 Huntersville, North Carolina				
0	362.5	725	1,450	2,175
Feet				

Release Site	Water Supply Well	Parcel Boundaries
Pipeline	Water Supply Well (Abandoned)	

		FIGURE 3
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Data Sources: Mecklenburg County GIS (Parcels, Streets)

Information depicted is subject to change based on future site activities.

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Project No.:		CPC20126

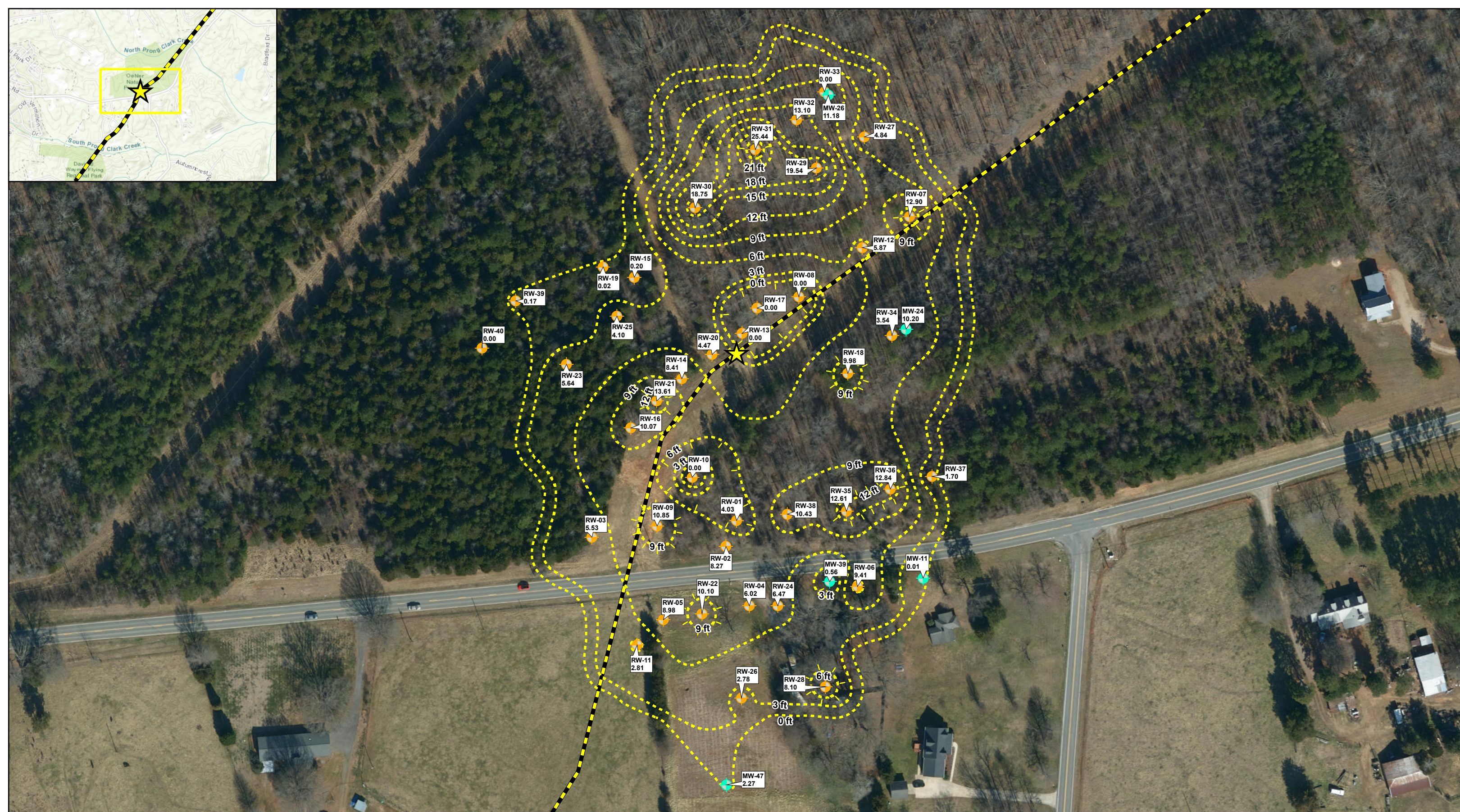
Groundwater Potentiometric Surface Map
Colonial Pipeline Company
2020-L1-SR2448
Huntersville, North Carolina

0 125 250 500 750
 Feet

Release Site	Monitoring Well	Parcel Boundaries
Pipeline	Deep Monitoring Well	
Equipotential Contour (Ft. MSL) (Dashed where Inferred)	Recovery Well	

NOTES:
 The following locations were not included to create this potentiometric surface map: MW-10 (Dry), MW-23 (Not Surveyed), RW-17 (Outlier), MW-07D, MW-36D, MW-57D, MW-59D, MW-61D, MW-62D (Deep Monitoring Wells), and MW-61, MW-62, RW-41, RW-42, RW-43, RW-44, RW-45 (Not Installed during gauging event on 11/9/2020).
 Contours based on monitoring well gauging data collected on 11/9/2020
 Contours interpolated using ArcMap Spatial Analyst (Kriging)

		FIGURE 4
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	Project No.:	CPC20126

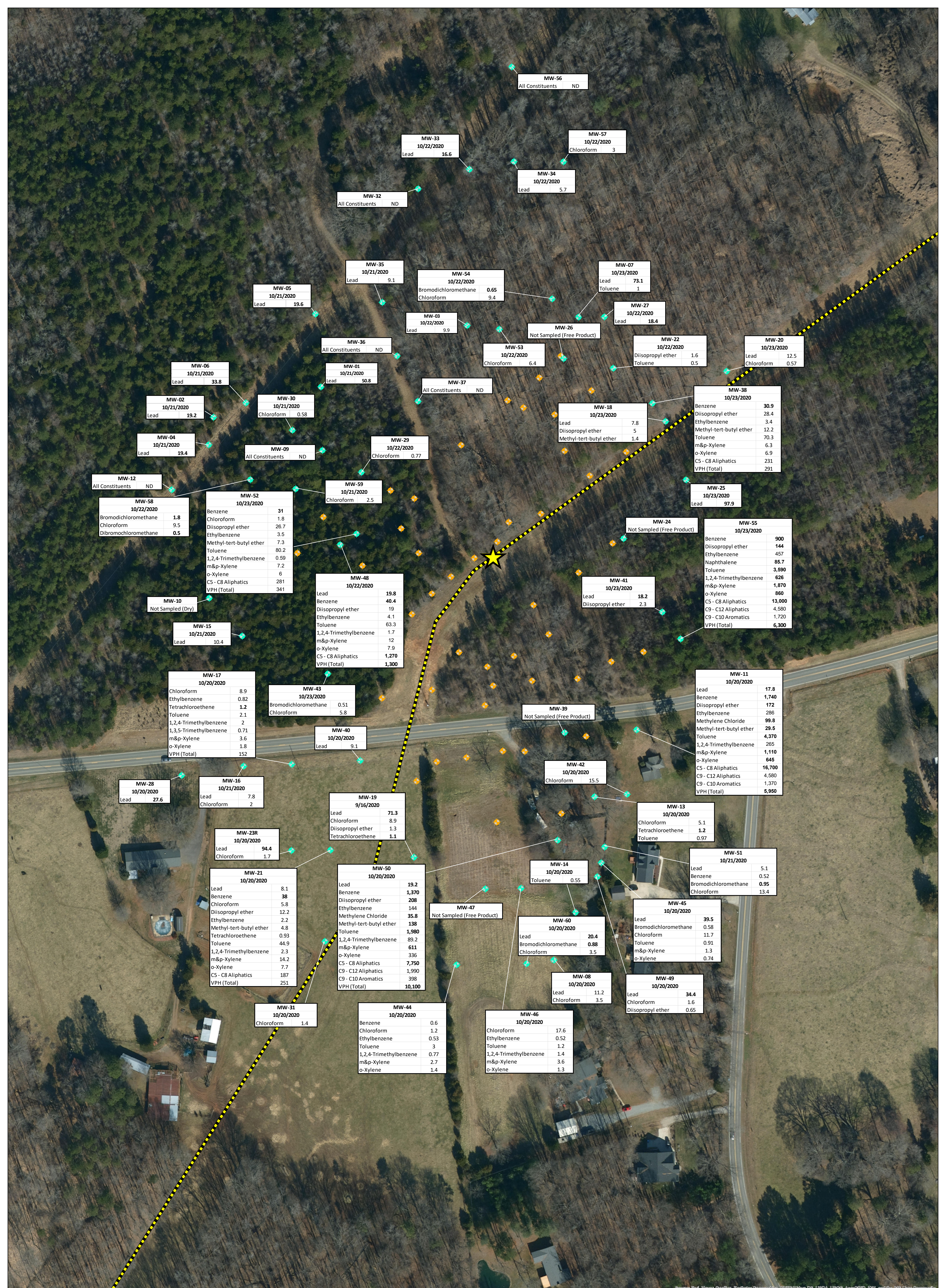
Free Product Distribution Map
Colonial Pipeline Company
2020-L1-SR2448 Release
Huntersville, North Carolina

0 70 140 280 420
 Feet

Release Site Pipeline	Apparent Free Product Thickness Contour	Recovery Well Monitoring Well
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NOTES:
 Free Product Thickness determined from apparent thickness in wells only;
 All gauging measurements taken November 9, 2020;
 RW-33 was not used in contouring;
 The average of apparent LNAPL thickness used for side-by-side wells MW-24/RW-34;
 All monitoring wells not shown were also used in contouring;
 Contours created using ArcGIS Spatial Analyst IDW interpolation method.

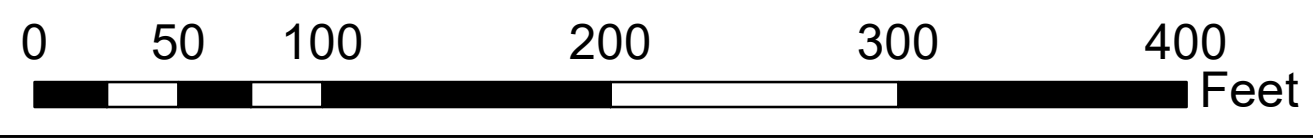
		FIGURE 5
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Project No.:	CPC20126

Monitoring Well Sampling Results

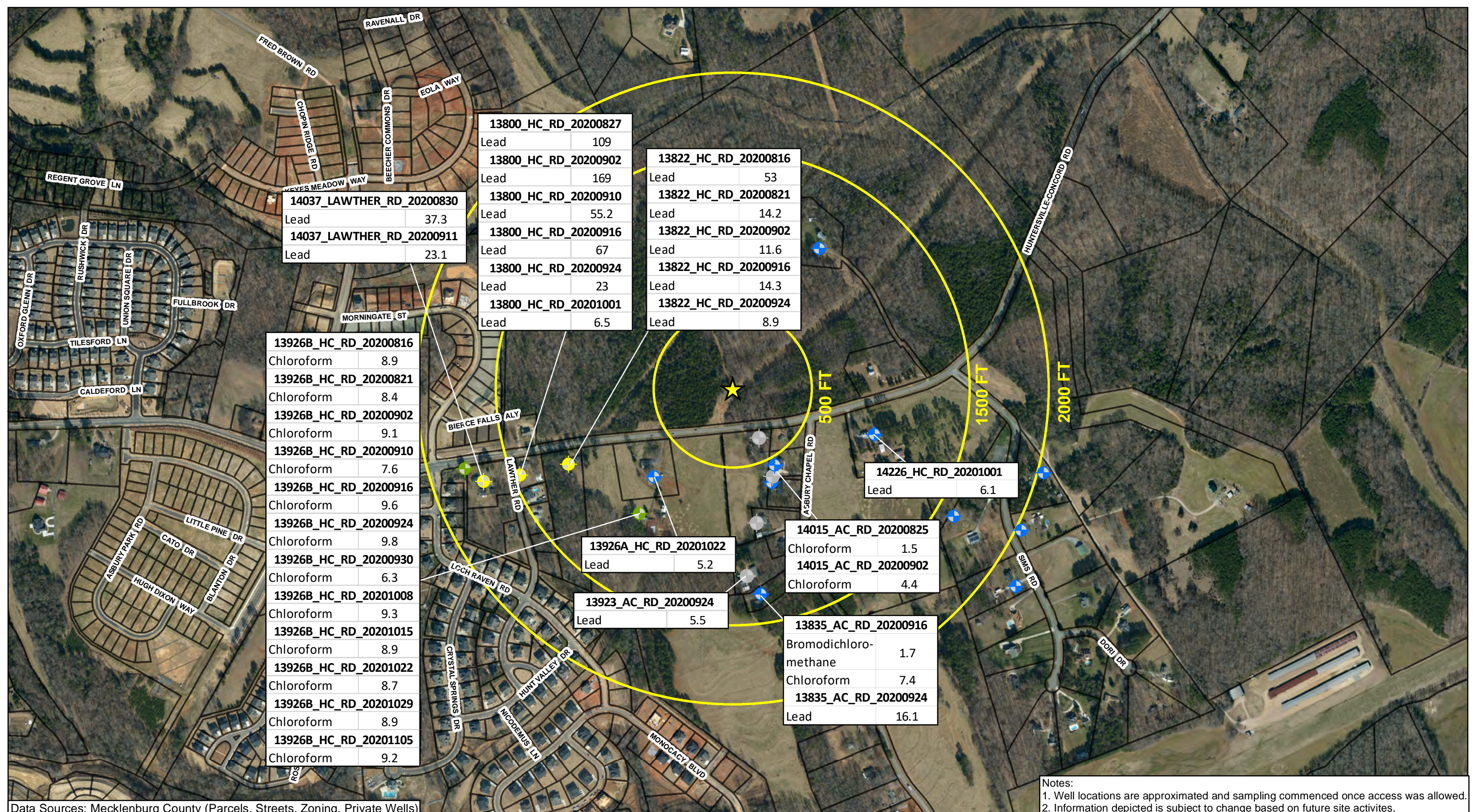
Colonial Pipeline Company
2020-L1-2448 Release
Huntersville, North Carolina



- Release Site
- Pipeline
- Monitoring Well
- Recovery Well

Notes:
 ND = Non-Detect
 All units reported in µg/L.
 µg/L = Micrograms per Liter
 Detections in **Bold** indicate an exceedance of NCAC 2L standard.
 Only laboratory detections are shown on this map.





14037_LAWTHER_RD_20200830	
Lead	37.3
14037_LAWTHER_RD_20200911	
Lead	23.1

13800_HC_RD_20200827	
Lead	109
13800_HC_RD_20200902	
Lead	169
13800_HC_RD_20200910	
Lead	55.2
13800_HC_RD_20200916	
Lead	67
13800_HC_RD_20200924	
Lead	23
13800_HC_RD_20201001	
Lead	6.5

13822_HC_RD_20200816	
Lead	53
13822_HC_RD_20200821	
Lead	14.2
13822_HC_RD_20200902	
Lead	11.6
13822_HC_RD_20200916	
Lead	14.3
13822_HC_RD_20200924	
Lead	8.9

13926B_HC_RD_20200816	
Chloroform	8.9
13926B_HC_RD_20200821	
Chloroform	8.4
13926B_HC_RD_20200902	
Chloroform	9.1
13926B_HC_RD_20200910	
Chloroform	7.6
13926B_HC_RD_20200916	
Chloroform	9.6
13926B_HC_RD_20200924	
Chloroform	9.8
13926B_HC_RD_20200930	
Chloroform	6.3
13926B_HC_RD_20201008	
Chloroform	9.3
13926B_HC_RD_20201015	
Chloroform	8.9
13926B_HC_RD_20201022	
Chloroform	8.7
13926B_HC_RD_20201029	
Chloroform	8.9
13926B_HC_RD_20201105	
Chloroform	9.2

13926A_HC_RD_20201022	
Lead	5.2

13923_AC_RD_20200924	
Lead	5.5

14226_HC_RD_20201001	
Lead	6.1

14015_AC_RD_20200825	
Chloroform	1.5
14015_AC_RD_20200902	
Chloroform	4.4

13835_AC_RD_20200916	
Bromodichloromethane	1.7
Chloroform	7.4
13835_AC_RD_20200924	
Lead	16.1

Notes:
 1. Well locations are approximated and sampling commenced once access was allowed.
 2. Information depicted is subject to change based on future site activities.

Data Sources: Mecklenburg County (Parcels, Streets, Zoning, Private Wells)

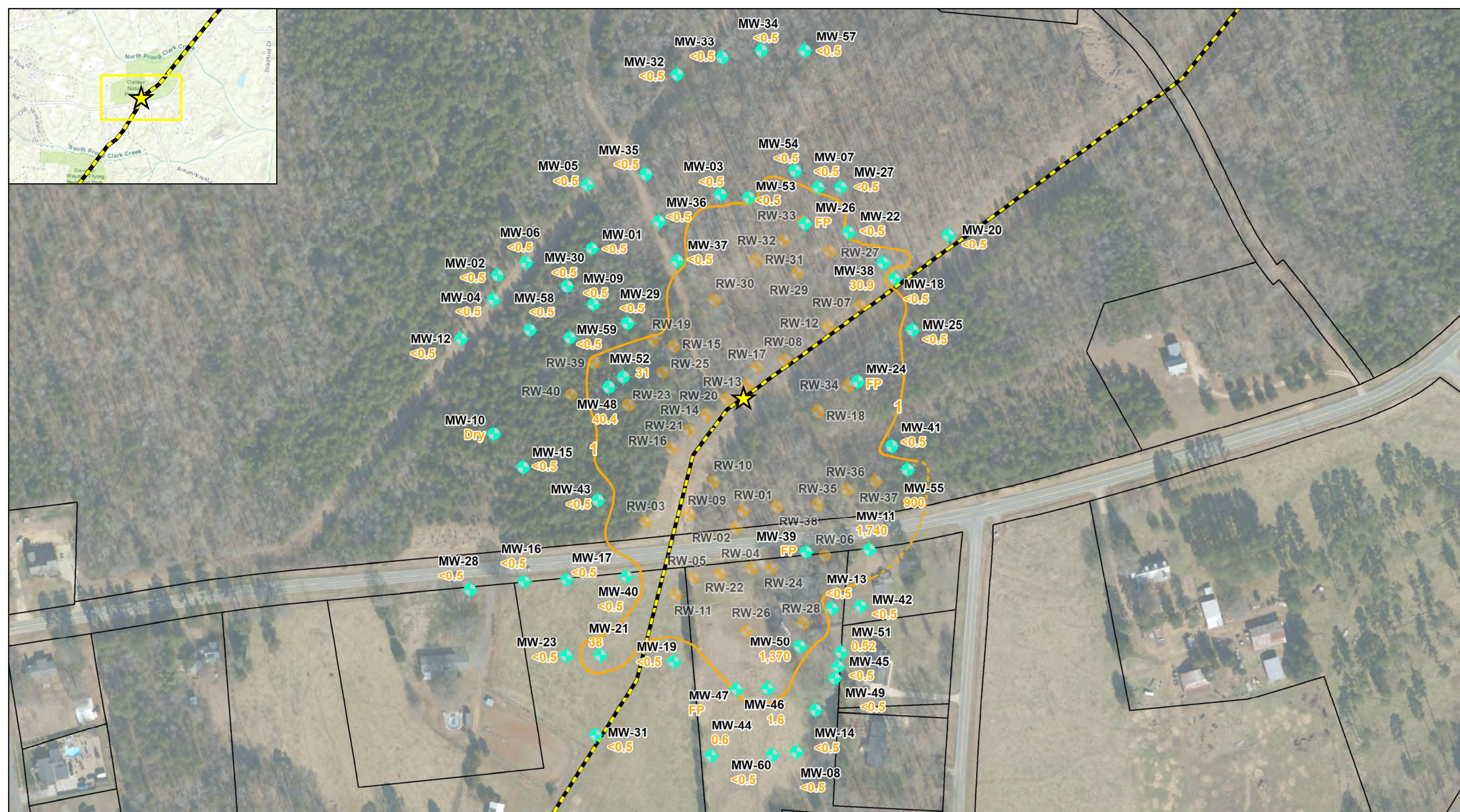
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Project No.:	CPC20126	

Water Supply Well Sampling Results
 (Detections Only)
 2020-L1-SR2448 Release
 Colonial Pipeline Company
 Huntersville, North Carolina

Sampled Water Supply Wells:

- Release Site
- Parcels
- Non-Potable Use Well
- Potable Use Well
- Inactive Use Well
- Abandoned Well

FIGURE
7



	Checked By:	AS
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	Project No.:	CPC20126

Benzene Isoconcentration Map
Colonial Pipeline Company
2020-L1-SR2448
Huntersville, North Carolina

0 100 200 400 600 Feet

<ul style="list-style-type: none"> Release Site Pipeline Benzene Isocontour (Dashed where Inferred) 	<ul style="list-style-type: none"> Constituent Not Detected Above Laboratory Practical Quantitation Limit Benzene Concentration (µg/L) FP = Free Product µg/L = Micrograms per Liter 	<ul style="list-style-type: none"> Recovery Well Monitoring Well <p>NCDEQ 2L Standard for Benzene is 1 µg/L</p>
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		FIGURE 8
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TABLES

Table 1
Summary of Recovery Well Gauging Data

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
RW-01	733.43	9/1/2020	28.60	36.95	8.35	702.59
RW-01	733.43	9/3/2020	30.60	35.95	5.35	701.39
RW-01	733.43	9/5/2020	29.11	37.05	7.94	702.19
RW-01	733.43	9/8/2020	29.40	36.95	7.55	702.00
RW-01	733.43	9/9/2020	29.50	37.10	7.60	701.89
RW-01	733.43	9/12/2020	30.00	36.95	6.95	701.57
RW-01	733.43	9/14/2020	30.00	37.20	7.20	701.50
RW-01	733.43	9/18/2020	30.80	37.00	6.20	700.97
RW-01	733.43	9/28/2020	31.15	37.00	5.85	700.71
RW-01	733.43	10/2/2020	31.30	37.15	5.85	700.56
RW-01	733.43	10/7/2020	31.65	37.20	5.55	700.29
RW-01	733.43	10/19/2020	32.12	37.00	4.88	700.00
RW-01	733.43	11/9/2020	33.10	37.13	4.03	699.25
RW-02	731.66	9/1/2020	27.30	39.60	12.30	701.07
RW-02	731.66	9/5/2020	27.66	39.67	12.01	700.79
RW-02	731.66	9/8/2020	27.90	39.65	11.75	700.62
RW-02	731.66	9/9/2020	28.65	39.65	11.00	700.07
RW-02	731.66	9/12/2020	28.43	38.95	10.52	700.41
RW-02	731.66	9/14/2020	28.43	39.70	11.27	700.21
RW-02	731.66	9/18/2020	29.10	38.60	9.50	700.02
RW-02	731.66	9/28/2020	29.52	39.42	9.90	699.49
RW-02	731.66	10/2/2020	29.70	39.70	10.00	699.28
RW-02	731.66	10/7/2020	30.04	39.68	9.64	699.04
RW-02	731.66	10/19/2020	30.45	39.65	9.20	698.75
RW-02	731.66	11/9/2020	31.38	39.65	8.27	698.07
RW-03	731.51	9/1/2020	34.15	37.55	3.40	696.45
RW-03	731.51	9/3/2020	37.20	37.26	0.06	694.30
RW-03	731.51	9/5/2020	35.50	37.44	1.94	695.49
RW-03	731.51	9/8/2020	34.80	35.95	1.15	696.40
RW-03	731.51	9/9/2020	33.95	38.80	4.85	696.26
RW-03	731.51	9/11/2020	34.92	36.60	1.68	696.14
RW-03	731.51	9/12/2020	34.85	36.35	1.50	696.26
RW-03	731.51	9/14/2020	33.91	36.97	3.06	696.78
RW-03	731.51	9/18/2020	34.20	37.10	2.90	696.54
RW-03	731.51	9/28/2020	33.85	37.55	3.70	696.67
RW-03	731.51	10/2/2020	34.72	38.17	3.45	695.87
RW-03	731.51	10/6/2020	33.55	38.80	5.25	696.56
RW-03	731.51	10/19/2020	33.00	38.89	5.89	696.94
RW-03	731.51	11/9/2020	33.31	38.84	5.53	696.72

Table 1
Summary of Recovery Well Gauging Data

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Well ID	Top Of Casing Elevation¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation² (ft btoc)
RW-04	729.41	9/1/2020	27.65	31.35	3.70	700.77
RW-04	729.41	9/3/2020	36.10	37.60	1.50	692.91
RW-04	729.41	9/5/2020	32.10	35.81	3.71	696.32
RW-04	729.41	9/8/2020	31.35	36.20	4.85	696.76
RW-04	729.41	9/11/2020	31.85	34.85	3.00	696.76
RW-04	729.41	9/12/2020	32.60	35.15	2.55	696.13
RW-04	729.41	9/14/2020	31.00	35.00	4.00	697.34
RW-04	729.41	9/18/2020	30.60	33.80	3.20	697.95
RW-04	729.41	9/28/2020	28.00	36.70	8.70	699.08
RW-04	729.41	10/2/2020	27.93	37.00	9.07	699.05
RW-04	729.41	10/5/2020	28.20	36.95	8.75	698.87
RW-04	729.41	10/19/2020	28.60	37.00	8.40	698.56
RW-04	729.41	11/9/2020	30.16	36.18	6.02	697.64
RW-05	726.29	9/1/2020	27.00	32.55	5.55	697.81
RW-05	726.29	9/3/2020	31.65	36.65	5.00	693.30
RW-05	726.29	9/5/2020	26.75	33.31	6.56	697.79
RW-05	726.29	9/8/2020	26.04	33.30	7.26	698.31
RW-05	726.29	9/11/2020	26.60	31.60	5.00	698.35
RW-05	726.29	9/12/2020	27.15	29.60	2.45	698.49
RW-05	726.29	9/14/2020	26.80	29.92	3.12	698.66
RW-05	726.29	9/18/2020	27.70	28.80	1.10	698.30
RW-05	726.29	9/28/2020	27.60	29.35	1.75	698.22
RW-05	726.29	10/2/2020	27.30	31.30	4.00	697.92
RW-05	726.29	10/5/2020	27.13	32.00	4.87	697.86
RW-05	726.29	10/19/2020	25.90	36.76	10.86	697.48
RW-05	726.29	11/9/2020	26.95	35.93	8.98	696.94
RW-06	734.78	9/1/2020	37.65	43.85	6.20	695.47
RW-06	734.78	9/3/2020	44.70	45.10	0.40	689.97
RW-06	734.78	9/5/2020	38.33	43.73	5.40	695.00
RW-06	734.78	9/8/2020	45.22	45.50	0.28	689.48
RW-06	734.78	9/9/2020	37.42	43.32	5.90	695.78
RW-06	734.78	9/11/2020	39.30	42.55	3.25	694.61
RW-06	734.78	9/12/2020	38.35	41.70	3.35	695.53
RW-06	734.78	9/14/2020	37.25	42.00	4.75	696.26
RW-06	734.78	9/18/2020	38.90	43.15	4.25	694.74
RW-06	734.78	9/28/2020	36.05	47.53	11.48	695.65
RW-06	734.78	10/2/2020	37.00	43.50	6.50	696.04
RW-06	734.78	10/5/2020	36.95	44.47	7.52	695.81
RW-06	734.78	10/19/2020	36.76	47.73	10.97	695.08
RW-06	734.78	11/9/2020	37.50	46.91	9.41	694.76

**Table 1
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Well ID	Top Of Casing Elevation¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation² (ft btoc)
RW-07	726.92	9/5/2020	34.20	41.55	7.35	690.75
RW-07	726.92	9/8/2020	33.70	46.00	12.30	689.92
RW-07	726.92	9/9/2020	37.45	40.82	3.37	688.56
RW-07	726.92	9/10/2020	36.40	39.90	3.50	689.58
RW-07	726.92	9/12/2020	33.52	45.60	12.08	690.16
RW-07	726.92	9/14/2020	34.01	40.09	6.08	691.28
RW-07	726.92	9/18/2020	36.50	42.30	5.80	688.86
RW-07	726.92	9/28/2020	32.50	45.30	12.80	690.99
RW-07	726.92	10/2/2020	33.52	40.95	7.43	691.41
RW-07	726.92	10/6/2020	33.50	42.83	9.33	690.92
RW-07	726.92	10/19/2020	32.80	46.13	13.33	690.55
RW-07	726.92	11/9/2020	33.30	46.20	12.90	690.16
RW-07	726.92	10/21/2020	32.80	46.13	13.33	690.55
RW-08	730.40	9/6/2020	ND	38.36	N/A	692.04
RW-08	730.40	9/8/2020	ND	38.32	N/A	692.08
RW-08	730.40	9/14/2020	ND	31.89	N/A	698.51
RW-08	730.40	10/9/2020	ND	31.66	N/A	698.74
RW-08	730.40	10/19/2020	32.21	35.93	3.72	697.20
RW-08	730.40	11/9/2020	ND	33.42	N/A	696.98
RW-09	732.39	9/1/2020	29.95	39.55	9.60	699.87
RW-09	732.39	9/3/2020	37.55	37.85	0.30	694.76
RW-09	732.39	9/5/2020	29.88	41.42	11.54	699.42
RW-09	732.39	9/8/2020	30.50	38.05	7.55	699.87
RW-09	732.39	9/9/2020	30.20	40.10	9.90	699.54
RW-09	732.39	9/12/2020	31.07	39.46	8.39	699.07
RW-09	732.39	9/14/2020	30.15	37.85	7.70	700.18
RW-09	732.39	9/18/2020	31.30	37.50	6.20	699.43
RW-09	732.39	9/28/2020	37.70	38.53	0.83	694.46
RW-09	732.39	10/2/2020	30.10	42.80	12.70	698.89
RW-09	732.39	10/7/2020	31.10	40.20	9.10	698.85
RW-09	732.39	10/19/2020	31.13	42.88	11.75	698.11
RW-09	732.39	11/9/2020	32.05	42.90	10.85	697.43

Table 1
Summary of Recovery Well Gauging Data

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
RW-10	734.38	9/1/2020	19.95	33.10	13.15	710.91
RW-10	734.38	9/3/2020	25.85	33.40	7.55	706.51
RW-10	734.38	9/5/2020	29.20	33.60	4.40	704.00
RW-10	734.38	9/8/2020	29.60	34.00	4.40	703.60
RW-10	734.38	9/9/2020	29.85	34.53	4.68	703.28
RW-10	734.38	9/12/2020	30.50	33.50	3.00	703.08
RW-10	734.38	9/14/2020	30.20	33.40	3.20	703.32
RW-10	734.38	9/18/2020	31.60	33.40	1.80	702.30
RW-10	734.38	9/28/2020	31.45	33.00	1.55	702.51
RW-10	734.38	10/2/2020	31.73	33.43	1.70	702.19
RW-10	734.38	10/7/2020	32.10	33.40	1.30	701.93
RW-10	734.38	10/19/2020	32.72	33.31	0.59	701.50
RW-10	734.38	11/9/2020	ND	33.20	N/A	701.18
RW-10	734.38	10/21/2020	32.72	33.31	0.59	701.50
RW-11	725.94	9/6/2020	32.23	34.39	2.16	693.13
RW-11	725.94	9/8/2020	31.60	32.80	1.20	694.02
RW-11	725.94	9/14/2020	28.85	31.62	2.77	696.35
RW-11	725.94	9/18/2020	34.00	34.00	0.00	691.94
RW-11	725.94	9/28/2020	29.90	31.90	2.00	695.50
RW-11	725.94	10/2/2020	32.30	32.60	0.30	693.56
RW-11	725.94	10/5/2020	27.70	34.10	6.40	696.53
RW-11	725.94	10/19/2020	27.70	31.27	3.57	697.28
RW-11	725.94	11/9/2020	28.33	31.14	2.81	696.86
RW-11	725.94	10/21/2020	27.70	31.27	3.57	697.28
RW-12	726.61	9/5/2020	31.45	33.82	2.37	694.53
RW-12	726.61	9/6/2020	34.95	35.14	0.19	691.61
RW-12	726.61	9/8/2020	34.20	36.10	1.90	691.90
RW-12	726.61	9/9/2020	34.24	36.65	2.41	691.73
RW-12	726.61	9/10/2020	34.70	35.83	1.13	691.61
RW-12	726.61	9/12/2020	32.89	34.35	1.46	693.33
RW-12	726.61	9/14/2020	31.81	36.18	4.37	693.63
RW-12	726.61	9/18/2020	32.35	34.60	2.25	693.66
RW-12	726.61	9/28/2020	29.43	36.91	7.48	695.18
RW-12	726.61	10/2/2020	31.10	36.40	5.30	694.09
RW-12	726.61	10/6/2020	29.78	37.75	7.97	694.70
RW-12	726.61	10/19/2020	30.35	37.04	6.69	694.47
RW-12	726.61	11/9/2020	31.21	37.08	5.87	693.83

Table 1
Summary of Recovery Well Gauging Data

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Huntersville, North Carolina

Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
RW-13	732.30	9/5/2020	ND	24.90	N/A	707.40
RW-13	732.30	9/6/2020	ND	26.54	N/A	705.76
RW-13	732.30	9/8/2020	ND	27.05	N/A	705.25
RW-13	732.30	9/14/2020	ND	27.93	N/A	704.37
RW-13	732.30	10/9/2020	ND	28.34	N/A	703.96
RW-13	732.30	10/19/2020	33.87	34.11	0.24	698.36
RW-13	732.30	11/9/2020	ND	31.09	N/A	701.21
RW-14	732.14	9/6/2020	27.12	39.68	12.56	701.65
RW-14	732.14	9/8/2020	27.15	36.25	9.10	702.55
RW-14	732.14	9/10/2020	27.95	35.05	7.10	702.29
RW-14	732.14	9/12/2020	27.40	38.95	11.55	701.65
RW-14	732.14	9/14/2020	27.68	39.15	11.47	701.39
RW-14	732.14	9/18/2020	29.15	39.20	10.05	700.30
RW-14	732.14	9/28/2020	29.30	39.93	10.63	699.99
RW-14	732.14	10/2/2020	29.63	39.95	10.32	699.74
RW-14	732.14	10/6/2020	29.90	40.00	10.10	699.53
RW-14	732.14	10/19/2020	30.60	39.94	9.34	699.04
RW-14	732.14	11/9/2020	31.69	40.10	8.41	698.20
RW-15	723.99	9/6/2020	34.07	34.10	0.03	689.91
RW-15	723.99	9/8/2020	34.15	34.17	0.02	689.83
RW-15	723.99	9/14/2020	34.25	34.29	0.04	689.73
RW-15	723.99	9/28/2020	34.62	34.68	0.06	689.35
RW-15	723.99	10/9/2020	ND	34.98	N/A	689.01
RW-15	723.99	10/19/2020	35.02	35.12	0.10	688.94
RW-15	723.99	11/9/2020	35.09	35.29	0.20	688.85
RW-16	732.10	9/5/2020	30.80	37.71	6.91	699.45
RW-16	732.10	9/6/2020	30.14	36.39	6.25	700.28
RW-16	732.10	9/8/2020	30.60	35.70	5.10	700.13
RW-16	732.10	9/9/2020	29.80	39.92	10.12	699.59
RW-16	732.10	9/10/2020	35.95	39.70	3.75	695.14
RW-16	732.10	9/12/2020	34.65	38.60	3.95	696.39
RW-16	732.10	9/14/2020	30.85	36.70	5.85	699.68
RW-16	732.10	9/18/2020	32.15	36.30	4.15	698.83
RW-16	732.10	9/28/2020	31.55	37.40	5.85	698.98
RW-16	732.10	10/2/2020	31.47	37.82	6.35	698.93
RW-16	732.10	10/6/2020	30.90	40.50	9.60	698.63
RW-16	732.10	10/19/2020	31.00	43.12	12.12	697.85
RW-16	732.10	11/9/2020	32.05	42.12	10.07	697.35

**Table 1
Summary of Recovery Well Gauging Data**

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Huntersville, North Carolina

Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
RW-17	729.57	9/6/2020	ND	19.94	N/A	709.63
RW-17	729.57	9/8/2020	ND	27.05	N/A	702.52
RW-17	729.57	9/14/2020	ND	20.05	N/A	709.52
RW-17	729.57	9/28/2020	ND	20.04	N/A	709.53
RW-17	729.57	10/9/2020	ND	20.06	N/A	709.51
RW-17	729.57	10/19/2020	ND	20.06	N/A	709.51
RW-17	729.57	11/9/2020	ND	20.09	N/A	709.48
RW-18	737.66	9/8/2020	36.15	40.20	4.05	700.42
RW-18	737.66	9/9/2020	36.40	41.35	4.95	699.93
RW-18	737.66	9/12/2020	36.50	40.00	3.50	700.22
RW-18	737.66	9/14/2020	34.95	42.00	7.05	700.82
RW-18	737.66	9/18/2020	36.55	42.00	5.45	699.65
RW-18	737.66	9/28/2020	35.42	45.45	10.03	699.55
RW-18	737.66	10/2/2020	35.20	47.65	12.45	699.12
RW-18	737.66	10/7/2020	35.70	47.48	11.78	698.80
RW-18	737.66	10/19/2020	36.54	47.75	11.21	698.12
RW-18	737.66	11/9/2020	37.73	47.71	9.98	697.26
RW-19	722.02	9/8/2020	ND	32.80	N/A	689.22
RW-19	722.02	9/14/2020	ND	32.74	N/A	689.28
RW-19	722.02	9/28/2020	ND	32.92	N/A	689.10
RW-19	722.02	10/9/2020	ND	33.23	N/A	688.79
RW-19	722.02	10/19/2020	ND	33.28	N/A	688.74
RW-19	722.02	11/9/2020	33.28	33.30	0.02	688.73
RW-20	731.69	9/8/2020	ND	28.75	N/A	702.94
RW-20	731.69	9/14/2020	26.90	36.20	9.30	702.30
RW-20	731.69	9/28/2020	31.55	33.20	1.65	699.69
RW-20	731.69	10/2/2020	30.60	31.65	1.05	700.81
RW-20	731.69	10/6/2020	30.50	31.90	1.40	700.81
RW-20	731.69	10/19/2020	30.29	32.90	2.61	700.70
RW-20	731.69	11/9/2020	30.62	35.09	4.47	699.87
RW-20	731.69	10/21/2020	30.29	32.90	2.61	700.70
RW-21	731.68	9/13/2020	28.50	42.55	14.05	699.42
RW-21	731.68	9/14/2020	30.72	36.55	5.83	699.40
RW-21	731.68	9/18/2020	31.30	38.00	6.70	698.59
RW-21	731.68	9/28/2020	30.08	41.40	11.32	698.57
RW-21	731.68	10/2/2020	30.28	41.15	10.87	698.49
RW-21	731.68	10/6/2020	30.40	41.55	11.15	698.30
RW-21	731.68	10/19/2020	30.13	45.10	14.97	697.55
RW-21	731.68	11/9/2020	31.09	44.70	13.61	696.95

Table 1
Summary of Recovery Well Gauging Data

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Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
RW-22	726.60	9/10/2020	25.62	39.00	13.38	697.40
RW-22	726.60	9/12/2020	26.70	31.62	4.92	698.58
RW-22	726.60	9/14/2020	25.55	30.85	5.30	699.63
RW-22	726.60	9/18/2020	26.10	32.10	6.00	698.89
RW-22	726.60	9/28/2020	26.20	30.75	4.55	699.18
RW-22	726.60	10/2/2020	25.55	33.00	7.45	699.06
RW-22	726.60	10/5/2020	25.53	34.50	8.97	698.67
RW-22	726.60	10/19/2020	25.93	37.32	11.39	697.62
RW-22	726.60	11/9/2020	26.89	36.99	10.10	697.01
RW-23	724.85	9/13/2020	31.80	41.73	9.93	690.39
RW-23	724.85	9/14/2020	31.79	41.68	9.89	690.41
RW-23	724.85	9/18/2020	32.95	39.35	6.40	690.18
RW-23	724.85	9/28/2020	32.91	39.45	6.54	690.19
RW-23	724.85	10/2/2020	33.39	39.31	5.92	689.87
RW-23	724.85	10/6/2020	33.25	39.25	6.00	689.99
RW-23	724.85	10/19/2020	33.30	39.26	5.96	689.95
RW-23	724.85	11/9/2020	33.39	39.03	5.64	689.95
RW-24	734.33	9/11/2020	35.83	35.85	0.02	698.49
RW-24	734.33	9/12/2020	ND	36.00	N/A	698.33
RW-24	734.33	9/14/2020	35.75	36.25	0.50	698.44
RW-24	734.33	9/18/2020	ND	36.10	N/A	698.23
RW-24	734.33	9/28/2020	33.80	33.91	0.11	700.50
RW-24	734.33	10/2/2020	33.15	35.20	2.05	700.63
RW-24	734.33	10/5/2020	33.84	34.10	0.26	700.42
RW-24	734.33	10/19/2020	32.84	37.15	4.31	700.33
RW-24	734.33	11/9/2020	32.83	39.30	6.47	699.76
RW-25	724.92	9/13/2020	33.75	37.21	3.46	690.24
RW-25	724.92	9/14/2020	33.08	38.85	5.77	690.29
RW-25	724.92	9/18/2020	34.88	35.80	0.92	689.79
RW-25	724.92	9/28/2020	34.86	35.90	1.04	689.78
RW-25	724.92	10/2/2020	34.90	36.55	1.65	689.57
RW-25	724.92	10/6/2020	34.90	36.40	1.50	689.61
RW-25	724.92	10/19/2020	33.83	39.91	6.08	689.46
RW-25	724.92	11/9/2020	34.45	38.55	4.10	689.37

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Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
RW-26	729.28	9/11/2020	29.80	30.35	0.55	699.34
RW-26	729.28	9/12/2020	29.85	30.42	0.57	699.28
RW-26	729.28	9/14/2020	29.79	30.41	0.62	699.33
RW-26	729.28	9/18/2020	30.31	32.20	1.89	698.47
RW-26	729.28	9/28/2020	27.60	29.25	1.65	701.24
RW-26	729.28	10/2/2020	27.17	28.35	1.18	701.80
RW-26	729.28	10/5/2020	27.01	29.15	2.14	701.70
RW-26	729.28	10/19/2020	26.39	29.02	2.63	702.19
RW-26	729.28	11/9/2020	26.82	29.60	2.78	701.72
RW-27	722.46	9/13/2020	ND	35.08	N/A	687.38
RW-27	722.46	9/14/2020	ND	35.09	N/A	687.37
RW-27	722.46	9/18/2020	ND	35.20	N/A	687.26
RW-27	722.46	10/9/2020	ND	35.23	N/A	687.23
RW-27	722.46	10/19/2020	35.23	35.43	0.20	687.18
RW-27	722.46	11/9/2020	34.36	39.20	4.84	686.80
RW-28	733.88	9/11/2020	38.13	39.31	1.18	695.43
RW-28	733.88	9/12/2020	ND	37.12	N/A	696.76
RW-28	733.88	9/13/2020	35.84	45.27	9.43	695.51
RW-28	733.88	9/14/2020	34.45	48.33	13.88	695.71
RW-28	733.88	9/18/2020	35.70	36.25	0.55	698.03
RW-28	733.88	9/28/2020	33.95	35.85	1.90	699.42
RW-28	733.88	10/2/2020	34.05	35.47	1.42	699.45
RW-28	733.88	10/5/2020	34.15	35.50	1.35	699.36
RW-28	733.88	10/19/2020	31.30	42.74	11.44	699.51
RW-28	733.88	11/9/2020	32.60	40.70	8.10	699.11
RW-29	721.84	9/13/2020	26.80	45.11	18.31	690.14
RW-29	721.84	9/14/2020	28.36	38.80	10.44	690.69
RW-29	721.84	9/18/2020	29.00	43.00	14.00	689.09
RW-29	721.84	9/28/2020	26.95	35.85	8.90	692.51
RW-29	721.84	10/2/2020	27.10	47.00	19.90	689.42
RW-29	721.84	10/6/2020	27.32	45.90	18.58	689.55
RW-29	721.84	10/19/2020	27.68	47.65	19.97	688.82
RW-29	721.84	11/9/2020	28.35	47.89	19.54	688.26
RW-30	719.60	9/14/2020	23.60	26.95	3.35	695.10
RW-30	719.60	9/28/2020	22.33	37.10	14.77	693.32
RW-30	719.60	10/2/2020	24.30	31.40	7.10	693.40
RW-30	719.60	10/6/2020	24.92	33.15	8.23	692.48
RW-30	719.60	10/19/2020	22.26	41.10	18.84	692.30
RW-30	719.60	11/9/2020	22.74	41.49	18.75	691.84

**Table 1
Summary of Recovery Well Gauging Data**

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Well ID	Top Of Casing Elevation¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation² (ft btoc)
RW-31	716.23	9/14/2020	27.38	28.66	1.28	688.51
RW-31	716.23	9/28/2020	23.25	43.45	20.20	687.57
RW-31	716.23	10/2/2020	26.30	35.40	9.10	687.49
RW-31	716.23	10/6/2020	24.99	36.40	11.41	688.18
RW-31	716.23	10/19/2020	22.55	46.14	23.59	687.37
RW-31	716.23	11/9/2020	22.74	48.18	25.44	686.68
RW-32	716.45	9/28/2020	26.65	38.78	12.13	686.55
RW-32	716.45	10/2/2020	27.50	36.95	9.45	686.42
RW-32	716.45	10/6/2020	27.31	33.30	5.99	687.53
RW-32	716.45	10/19/2020	26.89	39.24	12.35	686.25
RW-32	716.45	11/9/2020	27.04	40.14	13.10	685.90
RW-32	716.45	10/8/2020	27.31	33.30	5.99	687.53
RW-33	716.59	9/28/2020	ND	31.60	N/A	684.99
RW-33	716.59	10/9/2020	ND	30.88	N/A	685.71
RW-33	716.59	10/19/2020	ND	30.90	N/A	685.69
RW-33	716.59	11/9/2020	ND	31.24	N/A	685.35
RW-34	735.92	9/28/2020	33.95	43.25	9.30	699.48
RW-34	735.92	10/2/2020	42.78	43.50	0.72	692.94
RW-34	735.92	10/7/2020	42.59	43.31	0.72	693.13
RW-34	735.92	10/19/2020	42.64	43.73	1.09	692.98
RW-34	735.92	11/9/2020	42.21	45.75	3.54	692.76
RW-35	740.16	10/2/2020	41.25	53.80	12.55	695.55
RW-35	740.16	10/7/2020	42.31	47.66	5.35	696.42
RW-35	740.16	10/19/2020	40.44	53.16	12.72	696.32
RW-35	740.16	11/9/2020	40.87	53.48	12.61	695.92
RW-36	743.69	10/2/2020	45.00	58.63	13.63	695.04
RW-36	743.69	10/7/2020	45.22	56.81	11.59	695.37
RW-36	743.69	10/19/2020	45.39	59.40	14.01	694.55
RW-36	743.69	11/9/2020	45.84	58.68	12.84	694.42
RW-37	744.77	10/8/2020	51.74	53.64	1.90	692.52
RW-37	744.77	10/19/2020	52.15	52.87	0.72	692.43
RW-37	744.77	11/9/2020	51.95	53.65	1.70	692.37
RW-38	739.72	10/2/2020	38.70	49.00	10.30	698.27
RW-38	739.72	10/7/2020	39.38	45.53	6.15	698.70
RW-38	739.72	10/19/2020	38.15	49.55	11.40	698.52
RW-38	739.72	11/9/2020	39.17	49.60	10.43	697.76
RW-39	721.77	10/8/2020	ND	32.44	N/A	689.33
RW-39	721.77	10/19/2020	32.49	32.66	0.17	689.24
RW-39	721.77	11/9/2020	32.47	32.64	0.17	689.26

Table 1
Summary of Recovery Well Gauging Data

Colonial Pipeline Company
 2020-L1-2448 Incident
 Huntersville, North Carolina

Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
RW-40	722.94	10/8/2020	ND	33.34	N/A	689.60
RW-40	722.94	10/19/2020	ND	33.50	N/A	689.44
RW-40	722.94	11/9/2020	ND	33.42	N/A	689.52

Notes:

ft btoc = Feet Below Top of Casing

N/A = Not Applicable

RW = Recovery Well

ND - Not Detected

¹ = Elevations surveyed in feet using the NAVD88 vertical datum.

² = Corrected Groundwater Elevation = (Top of Casing - Depth to Water) + (Free Product Thickness x 0.7324)

Table 2
Summary of Monitoring Well Gauging Data

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Well ID	Top Of Casing Elevation¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation² (ft btoc)
MW-01	709.60*	9/1/2020	ND	25.05	N/A	684.55
MW-01	709.60*	9/3/2020	ND	25.82	N/A	683.78
MW-01	709.60*	9/5/2020	ND	25.94	N/A	683.66
MW-01	711.86	9/14/2020	ND	28.20	N/A	683.66
MW-01	711.86	9/18/2020	ND	28.20	N/A	683.66
MW-01	711.86	9/28/2020	ND	28.10	N/A	683.76
MW-01	711.86	10/3/2020	ND	28.09	N/A	683.77
MW-01	711.86	10/19/2020	ND	27.88	N/A	683.98
MW-01	711.86	10/26/2020	ND	27.74	N/A	684.12
MW-01	711.86	11/9/2020	ND	28.74	N/A	683.12
MW-02	710.96*	9/1/2020	ND	26.65	N/A	684.31
MW-02	710.96*	9/3/2020	ND	27.59	N/A	683.37
MW-02	710.96*	9/5/2020	ND	28.00	N/A	682.96
MW-02	712.53	9/14/2020	ND	29.57	N/A	682.96
MW-02	712.53	9/18/2020	ND	29.56	N/A	682.97
MW-02	712.53	9/28/2020	ND	29.51	N/A	683.02
MW-02	712.53	10/3/2020	ND	30.60	N/A	681.93
MW-02	712.53	10/19/2020	ND	29.41	N/A	683.12
MW-02	712.53	10/26/2020	ND	29.30	N/A	683.23
MW-02	712.53	11/9/2020	ND	29.07	N/A	683.46
MW-03	703.64	9/1/2020	ND	19.93	N/A	683.71
MW-03	703.64	9/3/2020	ND	22.74	N/A	680.90
MW-03	703.64	9/5/2020	ND	22.84	N/A	680.80
MW-03	703.64	9/14/2020	ND	22.78	N/A	680.86
MW-03	703.64	9/18/2020	ND	22.80	N/A	680.84
MW-03	703.64	9/28/2020	ND	22.54	N/A	681.10
MW-03	703.64	10/3/2020	ND	22.57	N/A	681.07
MW-03	703.64	10/19/2020	ND	21.88	N/A	681.76
MW-03	703.64	10/26/2020	ND	21.70	N/A	681.94
MW-03	703.64	11/9/2020	ND	21.44	N/A	682.20
MW-04	712.05*	9/1/2020	ND	28.30	N/A	683.75
MW-04	712.05*	9/3/2020	ND	28.19	N/A	683.86
MW-04	712.05*	9/5/2020	ND	28.32	N/A	683.73
MW-04	715.04	9/14/2020	ND	31.32	N/A	683.72
MW-04	715.04	9/18/2020	ND	31.31	N/A	683.73
MW-04	715.04	9/28/2020	ND	31.23	N/A	683.81
MW-04	715.04	10/3/2020	ND	31.26	N/A	683.78
MW-04	715.04	10/19/2020	ND	30.93	N/A	684.11
MW-04	715.04	10/26/2020	ND	30.78	N/A	684.26
MW-04	715.04	11/9/2020	ND	30.50	N/A	684.54

**Table 2
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Well ID	Top Of Casing Elevation¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation² (ft btoc)
MW-05	705.61*	9/1/2020	ND	24.19	N/A	681.42
MW-05	705.61*	9/3/2020	ND	25.22	N/A	680.39
MW-05	705.61*	9/5/2020	ND	26.38	N/A	679.23
MW-05	705.61*	9/6/2020	ND	27.38	N/A	678.23
MW-05	707.30	9/14/2020	ND	27.04	N/A	680.26
MW-05	707.30	9/18/2020	ND	27.03	N/A	680.27
MW-05	707.30	9/28/2020	ND	26.87	N/A	680.43
MW-05	707.30	10/3/2020	ND	26.88	N/A	680.42
MW-05	707.30	10/19/2020	ND	26.49	N/A	680.81
MW-05	707.30	10/26/2020	ND	26.34	N/A	680.96
MW-05	707.30	11/9/2020	ND	26.06	N/A	681.24
MW-05	707.30	10/28/2020	ND	28.34	N/A	678.96
MW-06	703.81*	9/1/2020	ND	20.70	N/A	683.11
MW-06	703.81*	9/3/2020	ND	20.92	N/A	682.89
MW-06	706.34	9/14/2020	ND	23.56	N/A	682.78
MW-06	706.34	9/18/2020	ND	23.65	N/A	682.69
MW-06	706.34	9/28/2020	ND	23.47	N/A	682.87
MW-06	706.34	10/3/2020	ND	23.51	N/A	682.83
MW-06	706.34	10/19/2020	ND	23.23	N/A	683.11
MW-06	706.34	10/26/2020	ND	23.12	N/A	683.22
MW-06	706.34	11/9/2020	ND	22.91	N/A	683.43
MW-07	709.46*	9/1/2020	ND	26.67	N/A	682.79
MW-07	709.46*	9/3/2020	ND	26.53	N/A	682.93
MW-07	709.46*	9/5/2020	ND	25.60	N/A	683.86
MW-07	712.36	9/14/2020	ND	29.36	N/A	683.00
MW-07	712.36	9/18/2020	ND	29.31	N/A	683.05
MW-07	712.36	9/28/2020	ND	29.24	N/A	683.12
MW-07	712.36	10/3/2020	ND	29.32	N/A	683.04
MW-07	712.36	10/19/2020	ND	29.28	N/A	683.08
MW-07	712.36	10/26/2020	ND	29.26	N/A	683.10
MW-07	712.36	11/9/2020	ND	29.19	N/A	683.17
MW-07	712.36	10/5/2020	ND	31.32	N/A	681.04
MW-08	724.93	9/1/2020	ND	31.50	N/A	693.43
MW-08	724.93	9/3/2020	ND	31.64	N/A	693.29
MW-08	724.93	9/14/2020	ND	31.77	N/A	693.16
MW-08	724.93	9/18/2020	ND	21.78	N/A	703.15
MW-08	724.93	9/28/2020	ND	31.83	N/A	693.10
MW-08	724.93	10/3/2020	ND	31.95	N/A	692.98
MW-08	724.93	10/19/2020	ND	31.87	N/A	693.06
MW-08	724.93	10/26/2020	ND	31.79	N/A	693.14
MW-08	724.93	11/9/2020	ND	31.73	N/A	693.20

Table 2
Summary of Monitoring Well Gauging Data

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
MW-09	709.46*	9/1/2020	ND	26.02	N/A	683.44
MW-09	709.46*	9/3/2020	ND	26.64	N/A	682.82
MW-09	717.15	9/14/2020	ND	28.82	N/A	688.33
MW-09	717.15	9/18/2020	ND	28.84	N/A	688.31
MW-09	717.15	9/28/2020	ND	28.84	N/A	688.31
MW-09	717.15	10/3/2020	ND	28.93	N/A	688.22
MW-09	717.15	10/19/2020	ND	28.96	N/A	688.19
MW-09	717.15	10/26/2020	ND	28.93	N/A	688.22
MW-09	717.15	11/9/2020	ND	28.84	N/A	688.31
MW-10	721.52*	9/1/2020	ND	Dry	N/A	Dry
MW-10	721.52*	9/3/2020	ND	Dry	N/A	Dry
MW-10	721.52*	9/5/2020	ND	Dry	N/A	Dry
MW-10	722.91	9/14/2020	ND	Dry	N/A	Dry
MW-10	722.91	9/18/2020	ND	Dry	N/A	Dry
MW-10	722.91	9/28/2020	ND	Dry	N/A	Dry
MW-10	722.91	10/3/2020	ND	Dry	N/A	Dry
MW-10	722.91	10/4/2020	ND	Dry	N/A	Dry
MW-10	722.91	10/26/2020	ND	Dry	N/A	Dry
MW-10	722.91	11/9/2020	ND	Dry	N/A	Dry
MW-10	722.91	10/5/2020	ND	Dry	N/A	Dry
MW-11	739.65	9/1/2020	ND	40.90	N/A	698.75
MW-11	739.65	9/3/2020	ND	43.20	N/A	696.45
MW-11	739.65	9/14/2020	ND	45.24	N/A	694.41
MW-11	739.65	9/18/2020	ND	42.00	N/A	697.65
MW-11	739.65	9/28/2020	ND	42.03	N/A	697.62
MW-11	739.65	10/3/2020	ND	42.14	N/A	697.51
MW-11	739.65	10/19/2020	ND	42.24	N/A	697.41
MW-11	739.65	10/26/2020	ND	42.30	N/A	697.35
MW-11	739.65	11/9/2020	42.40	42.41	0.01	697.24
MW-12	718.27	9/1/2020	ND	30.95	N/A	687.32
MW-12	718.27	9/3/2020	ND	32.18	N/A	686.09
MW-12	718.27	9/5/2020	ND	32.27	N/A	686.00
MW-12	718.27	9/14/2020	ND	33.77	N/A	684.50
MW-12	718.27	9/18/2020	ND	33.78	N/A	684.49
MW-12	718.27	9/28/2020	ND	33.71	N/A	684.56
MW-12	718.27	10/3/2020	ND	33.78	N/A	684.49
MW-12	718.27	10/19/2020	ND	33.63	N/A	684.64
MW-12	718.27	10/26/2020	ND	33.58	N/A	684.69
MW-12	718.27	11/9/2020	ND	33.36	N/A	684.91

Table 2
Summary of Monitoring Well Gauging Data

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
MW-13	736.29	9/14/2020	ND	41.77	N/A	694.52
MW-13	736.29	9/18/2020	ND	38.42	N/A	697.87
MW-13	736.29	9/28/2020	ND	38.40	N/A	697.89
MW-13	736.29	10/3/2020	ND	38.51	N/A	697.78
MW-13	736.29	10/19/2020	ND	38.55	N/A	697.74
MW-13	736.29	10/26/2020	ND	38.62	N/A	697.67
MW-13	736.29	11/9/2020	ND	38.72	N/A	697.57
MW-14	724.88	9/14/2020	ND	31.21	N/A	693.67
MW-14	724.88	9/18/2020	ND	31.24	N/A	693.64
MW-14	724.88	9/28/2020	ND	31.29	N/A	693.59
MW-14	724.88	10/3/2020	ND	31.28	N/A	693.60
MW-14	724.88	10/19/2020	ND	31.25	N/A	693.63
MW-14	724.88	10/26/2020	ND	31.27	N/A	693.61
MW-14	724.88	11/9/2020	ND	31.18	N/A	693.70
MW-14	724.88	10/5/2020	ND	33.28	N/A	691.60
MW-15	725.70	9/3/2020	ND	33.31	N/A	692.39
MW-15	725.70	9/5/2020	ND	33.38	N/A	692.32
MW-15	725.70	9/14/2020	ND	34.79	N/A	690.91
MW-15	725.70	9/18/2020	ND	34.81	N/A	690.89
MW-15	725.70	9/28/2020	ND	34.18	N/A	691.52
MW-15	725.70	10/3/2020	ND	34.89	N/A	690.81
MW-15	725.70	10/19/2020	ND	34.88	N/A	690.82
MW-15	725.70	10/26/2020	ND	34.88	N/A	690.82
MW-15	725.70	11/9/2020	ND	34.84	N/A	690.86
MW-16	725.49	9/14/2020	ND	26.02	N/A	699.47
MW-16	725.49	9/18/2020	ND	33.90	N/A	691.59
MW-16	725.49	9/28/2020	ND	33.87	N/A	691.62
MW-16	725.49	10/3/2020	ND	33.91	N/A	691.58
MW-16	725.49	10/19/2020	ND	33.89	N/A	691.60
MW-16	725.49	10/26/2020	ND	33.86	N/A	691.63
MW-16	725.49	11/9/2020	ND	33.85	N/A	691.64
MW-17	727.50	9/14/2020	ND	31.32	N/A	696.18
MW-17	727.50	9/18/2020	ND	35.71	N/A	691.79
MW-17	727.50	9/28/2020	ND	35.70	N/A	691.80
MW-17	727.50	10/3/2020	ND	35.75	N/A	691.75
MW-17	727.50	10/19/2020	ND	35.73	N/A	691.77
MW-17	727.50	10/26/2020	ND	35.72	N/A	691.78
MW-17	727.50	11/9/2020	ND	35.72	N/A	691.78
MW-17	727.50	10/28/2020	ND	37.72	N/A	689.78

**Table 2
Summary of Monitoring Well Gauging Data**

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Well ID	Top Of Casing Elevation¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation² (ft btoc)
MW-18	729.75	9/3/2020	ND	36.67	N/A	693.08
MW-18	729.75	9/14/2020	ND	39.78	N/A	689.97
MW-18	729.75	9/18/2020	ND	39.75	N/A	690.00
MW-18	729.75	9/28/2020	ND	39.71	N/A	690.04
MW-18	729.75	10/3/2020	ND	39.79	N/A	689.96
MW-18	729.75	10/19/2020	ND	39.88	N/A	689.87
MW-18	729.75	10/26/2020	ND	39.93	N/A	689.82
MW-18	729.75	11/9/2020	ND	40.04	N/A	689.71
MW-19	726.29	9/14/2020	ND	13.45	N/A	712.84
MW-19	726.29	9/18/2020	ND	31.25	N/A	695.04
MW-19	726.29	9/28/2020	ND	31.27	N/A	695.02
MW-19	726.29	10/3/2020	ND	31.28	N/A	695.01
MW-19	726.29	10/19/2020	ND	31.26	N/A	695.03
MW-19	726.29	10/26/2020	ND	31.28	N/A	695.01
MW-19	726.29	11/9/2020	ND	31.30	N/A	694.99
MW-19	726.29	10/5/2020	ND	33.28	N/A	693.01
MW-20	729.69	9/3/2020	ND	41.44	N/A	688.25
MW-20	729.69	9/14/2020	ND	42.25	N/A	687.44
MW-20	729.69	9/18/2020	ND	40.21	N/A	689.48
MW-20	729.69	9/28/2020	ND	42.17	N/A	687.52
MW-20	729.69	10/3/2020	ND	42.12	N/A	687.57
MW-20	729.69	10/19/2020	ND	42.16	N/A	687.53
MW-20	729.69	10/26/2020	ND	42.15	N/A	687.54
MW-20	729.69	11/9/2020	ND	42.14	N/A	687.55
MW-20	729.69	10/21/2020	ND	44.16	N/A	685.53
MW-21	724.97	9/14/2020	ND	24.99	N/A	699.98
MW-21	724.97	9/18/2020	ND	30.79	N/A	694.18
MW-21	724.97	9/28/2020	ND	30.73	N/A	694.24
MW-21	724.97	10/3/2020	ND	30.81	N/A	694.16
MW-21	724.97	10/19/2020	ND	30.76	N/A	694.21
MW-21	724.97	10/26/2020	ND	30.74	N/A	694.23
MW-21	724.97	11/9/2020	ND	30.78	N/A	694.19
MW-22	721.89	9/14/2020	ND	34.88	N/A	687.01
MW-22	721.89	9/18/2020	ND	34.82	N/A	687.07
MW-22	721.89	9/28/2020	ND	34.77	N/A	687.12
MW-22	721.89	10/3/2020	ND	34.88	N/A	687.01
MW-22	721.89	10/19/2020	ND	35.02	N/A	686.87
MW-22	721.89	10/26/2020	ND	35.12	N/A	686.77
MW-22	721.89	11/9/2020	ND	34.80	N/A	687.09

**Table 2
Summary of Monitoring Well Gauging Data**

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Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
MW-23	724.32	9/14/2020	ND	30.06	N/A	694.26
MW-23	724.32	9/18/2020	ND	30.38	N/A	693.94
MW-23	724.32	9/28/2020	ND	29.82	N/A	694.50
MW-23**	NM	10/3/2020	ND	29.86	N/A	NM
MW-23**	NM	10/19/2020	ND	29.81	N/A	NM
MW-23**	NM	10/26/2020	ND	29.78	N/A	NM
MW-23**	NM	11/9/2020	ND	29.79	N/A	NM
MW-24	737.63	9/14/2020	44.36	46.69	2.33	692.65
MW-24	737.63	9/18/2020	43.71	48.36	4.65	692.67
MW-24	737.63	9/28/2020	41.54	54.21	12.67	692.70
MW-24	737.63	10/3/2020	41.54	55.61	14.07	692.32
MW-24	737.63	10/19/2020	41.72	55.25	13.53	692.29
MW-24	737.63	10/26/2020	41.26	55.45	14.19	692.57
MW-24	737.63	11/9/2020	42.63	52.83	10.20	692.27
MW-24	737.63	10/21/2020	41.72	55.25	13.53	692.29
MW-25	734.04	9/14/2020	ND	43.52	N/A	690.52
MW-25	734.04	9/18/2020	ND	43.48	N/A	690.56
MW-25	734.04	9/28/2020	ND	43.40	N/A	690.64
MW-25	734.04	10/3/2020	ND	43.49	N/A	690.55
MW-25	734.04	10/19/2020	ND	43.54	N/A	690.50
MW-25	734.04	10/26/2020	ND	43.57	N/A	690.47
MW-25	734.04	11/9/2020	ND	43.61	N/A	690.43
MW-25	734.04	10/21/2020	ND	45.54	N/A	688.50
MW-26	717.71	9/14/2020	31.19	33.25	2.33	686.17
MW-26	717.71	9/18/2020	30.70	34.61	3.91	685.96
MW-26	717.71	9/28/2020	29.56	37.80	8.24	685.95
MW-26	717.71	10/3/2020	29.56	38.75	9.19	685.69
MW-26	717.71	10/19/2020	28.91	39.92	11.01	685.85
MW-26	717.71	10/26/2020	28.84	39.89	11.05	685.91
MW-26	717.71	11/9/2020	28.85	40.03	11.18	685.87
MW-26	717.71	10/21/2020	28.91	39.92	11.01	685.85
MW-27	716.19	9/14/2020	ND	33.27	N/A	682.92
MW-27	716.19	9/18/2020	ND	33.24	N/A	682.95
MW-27	716.19	9/28/2020	ND	33.18	N/A	683.01
MW-27	716.19	10/3/2020	ND	33.23	N/A	682.96
MW-27	716.19	10/19/2020	ND	33.24	N/A	682.95
MW-27	716.19	10/26/2020	ND	33.23	N/A	682.96
MW-27	716.19	11/9/2020	ND	33.21	N/A	682.98

Table 2
Summary of Monitoring Well Gauging Data

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Well ID	Top Of Casing Elevation¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation² (ft btoc)
MW-28	720.45	9/14/2020	ND	29.37	N/A	691.08
MW-28	720.45	9/18/2020	ND	29.34	N/A	691.11
MW-28	720.45	9/28/2020	ND	29.32	N/A	691.13
MW-28	720.45	10/3/2020	ND	29.36	N/A	691.09
MW-28	720.45	10/19/2020	ND	29.33	N/A	691.12
MW-28	720.45	10/26/2020	ND	29.29	N/A	691.16
MW-28	720.45	11/9/2020	ND	29.25	N/A	691.20
MW-29	718.73	9/14/2020	ND	29.71	N/A	689.02
MW-29	718.73	9/18/2020	ND	29.79	N/A	688.94
MW-29	718.73	9/28/2020	ND	29.86	N/A	688.87
MW-29	718.73	10/3/2020	ND	30.00	N/A	688.73
MW-29	718.73	10/19/2020	ND	30.10	N/A	688.63
MW-29	718.73	10/26/2020	ND	30.11	N/A	688.62
MW-29	718.73	11/9/2020	ND	30.07	N/A	688.66
MW-30	715.08	9/14/2020	ND	30.59	N/A	684.49
MW-30	715.08	9/18/2020	ND	30.59	N/A	684.49
MW-30	715.08	9/28/2020	ND	30.50	N/A	684.58
MW-30	715.08	10/3/2020	ND	30.54	N/A	684.54
MW-30	715.08	10/19/2020	ND	30.32	N/A	684.76
MW-30	715.08	10/26/2020	ND	30.21	N/A	684.87
MW-30	715.08	11/9/2020	ND	30.02	N/A	685.06
MW-31	721.45	9/14/2020	ND	26.39	N/A	695.06
MW-31	721.45	9/18/2020	ND	27.69	N/A	693.76
MW-31	721.45	9/28/2020	ND	27.64	N/A	693.81
MW-31	721.45	10/3/2020	ND	27.69	N/A	693.76
MW-31	721.45	10/19/2020	ND	27.62	N/A	693.83
MW-31	721.45	10/26/2020	ND	27.61	N/A	693.84
MW-31	721.45	11/9/2020	ND	27.61	N/A	693.84
MW-31	721.45	10/21/2020	ND	29.62	N/A	691.83
MW-32	691.78	9/14/2020	ND	16.19	N/A	675.59
MW-32	691.78	9/18/2020	ND	16.06	N/A	675.72
MW-32	691.78	9/28/2020	ND	15.63	N/A	676.15
MW-32	691.78	10/3/2020	ND	15.73	N/A	676.05
MW-32	691.78	10/19/2020	ND	15.09	N/A	676.69
MW-32	691.78	10/26/2020	ND	14.98	N/A	676.80
MW-32	691.78	11/9/2020	ND	14.57	N/A	677.21

**Table 2
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Well ID	Top Of Casing Elevation¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation² (ft btoc)
MW-33	686.70	9/14/2020	ND	13.20	N/A	673.50
MW-33	686.70	9/18/2020	ND	13.03	N/A	673.67
MW-33	686.70	9/28/2020	ND	12.63	N/A	674.07
MW-33	686.70	10/3/2020	ND	12.76	N/A	673.94
MW-33	686.70	10/19/2020	ND	12.12	N/A	674.58
MW-33	686.70	10/26/2020	ND	12.03	N/A	674.67
MW-33	686.70	11/9/2020	ND	11.58	N/A	675.12
MW-34	683.89	9/14/2020	ND	10.89	N/A	673.00
MW-34	683.89	9/18/2020	ND	10.60	N/A	673.29
MW-34	683.89	9/28/2020	ND	10.25	N/A	673.64
MW-34	683.89	10/3/2020	ND	10.47	N/A	673.42
MW-34	683.89	10/19/2020	ND	9.77	N/A	674.12
MW-34	683.89	10/26/2020	ND	9.70	N/A	674.19
MW-34	683.89	11/9/2020	ND	9.18	N/A	674.71
MW-34	683.89	10/21/2020	ND	11.77	N/A	672.12
MW-35	707.14	9/14/2020	ND	26.78	N/A	680.36
MW-35	707.14	9/18/2020	ND	26.78	N/A	680.36
MW-35	707.14	9/28/2020	ND	26.52	N/A	680.62
MW-35	707.14	10/3/2020	ND	26.48	N/A	680.66
MW-35	707.14	10/19/2020	ND	25.90	N/A	681.24
MW-35	707.14	10/26/2020	ND	25.76	N/A	681.38
MW-35	707.14	11/9/2020	ND	25.48	N/A	681.66
MW-36	710.54	9/14/2020	ND	28.62	N/A	681.92
MW-36	710.54	9/18/2020	ND	28.61	N/A	681.93
MW-36	710.54	9/28/2020	ND	28.35	N/A	682.19
MW-36	710.54	10/3/2020	ND	28.31	N/A	682.23
MW-36	710.54	10/19/2020	ND	27.73	N/A	682.81
MW-36	710.54	10/26/2020	ND	27.64	N/A	682.90
MW-36	710.54	11/9/2020	ND	27.44	N/A	683.10
MW-37	714.94	9/14/2020	ND	26.90	N/A	688.04
MW-37	714.94	9/18/2020	ND	26.92	N/A	688.02
MW-37	714.94	9/28/2020	ND	26.99	N/A	687.95
MW-37	714.94	10/3/2020	ND	27.14	N/A	687.80
MW-37	714.94	10/19/2020	ND	27.18	N/A	687.76
MW-37	714.94	10/26/2020	ND	27.21	N/A	687.73
MW-37	714.94	11/9/2020	ND	27.16	N/A	687.78
MW-38	726.74	9/14/2020	ND	37.56	N/A	689.18

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Summary of Monitoring Well Gauging Data

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Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
MW-38	726.74	9/18/2020	ND	37.66	N/A	689.08
MW-38	726.74	9/28/2020	ND	37.45	N/A	689.29
MW-38	726.74	10/3/2020	ND	37.55	N/A	689.19
MW-38	726.74	10/19/2020	ND	37.65	N/A	689.09
MW-38	726.74	10/26/2020	ND	37.71	N/A	689.03
MW-38	726.74	11/9/2020	ND	37.80	N/A	688.94
MW-39	738.13	9/14/2020	ND	41.90	N/A	696.23
MW-39	738.13	9/18/2020	ND	38.31	N/A	699.82
MW-39	738.13	9/28/2020	ND	38.33	N/A	699.80
MW-39	738.13	10/3/2020	ND	38.58	N/A	699.55
MW-39	738.13	10/19/2020	38.51	39.71	1.20	699.30
MW-39	738.13	11/9/2020	38.48	39.04	0.56	699.50
MW-40	728.92	9/14/2020	ND	33.25	N/A	695.67
MW-40	728.92	9/18/2020	ND	33.21	N/A	695.71
MW-40	728.92	9/28/2020	ND	33.15	N/A	695.77
MW-40	728.92	10/3/2020	ND	33.22	N/A	695.70
MW-40	728.92	10/19/2020	ND	33.27	N/A	695.65
MW-40	728.92	10/26/2020	ND	33.32	N/A	695.60
MW-40	728.92	11/9/2020	ND	33.47	N/A	695.45
MW-40	728.92	10/28/2020	ND	35.32	N/A	693.60
MW-41	745.92	9/14/2020	ND	53.40	N/A	692.52
MW-41	745.92	9/18/2020	ND	53.40	N/A	692.52
MW-41	745.92	9/28/2020	ND	53.36	N/A	692.56
MW-41	745.92	10/3/2020	ND	53.49	N/A	692.43
MW-41	745.92	10/19/2020	ND	53.51	N/A	692.41
MW-41	745.92	10/26/2020	ND	53.49	N/A	692.43
MW-41	745.92	11/9/2020	ND	53.53	N/A	692.39
MW-42	735.71	9/14/2020	ND	41.33	N/A	694.38
MW-42	735.71	9/18/2020	ND	38.15	N/A	697.56
MW-42	735.71	9/28/2020	ND	38.14	N/A	697.57
MW-42	735.71	10/3/2020	ND	38.25	N/A	697.46
MW-42	735.71	10/19/2020	ND	38.31	N/A	697.40
MW-42	735.71	10/26/2020	ND	38.36	N/A	697.35
MW-42	735.71	11/9/2020	ND	38.44	N/A	697.27
MW-43	729.80	9/14/2020	ND	38.27	N/A	691.53
MW-43	729.80	9/18/2020	ND	38.30	N/A	691.50
MW-43	729.80	9/28/2020	ND	38.33	N/A	691.47
MW-43	729.80	10/3/2020	ND	38.52	N/A	691.28
MW-43	729.80	10/19/2020	ND	38.49	N/A	691.31
MW-43	729.80	10/26/2020	ND	38.52	N/A	691.28
MW-43	729.80	11/9/2020	ND	38.49	N/A	691.31

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Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
MW-44	726.48	9/14/2020	ND	32.40	N/A	694.08
MW-44	726.48	9/18/2020	ND	32.53	N/A	693.95
MW-44	726.48	9/28/2020	ND	32.59	N/A	693.89
MW-44	726.48	10/3/2020	ND	32.64	N/A	693.84
MW-44	726.48	10/19/2020	ND	32.70	N/A	693.78
MW-44	726.48	10/26/2020	ND	32.62	N/A	693.86
MW-44	726.48	11/9/2020	ND	32.67	N/A	693.81
MW-44	726.48	10/21/2020	ND	34.70	N/A	691.78
MW-45	729.41	9/14/2020	ND	35.28	N/A	694.13
MW-45	729.41	9/18/2020	ND	35.21	N/A	694.20
MW-45	729.41	9/28/2020	ND	35.29	N/A	694.12
MW-45	729.41	10/3/2020	ND	35.40	N/A	694.01
MW-45	729.41	10/19/2020	ND	35.38	N/A	694.03
MW-45	729.41	10/26/2020	ND	35.39	N/A	694.02
MW-45	729.41	11/9/2020	ND	35.37	N/A	694.04
MW-46	726.73	9/14/2020	ND	31.63	N/A	695.10
MW-46	726.73	9/18/2020	ND	31.63	N/A	695.10
MW-46	726.73	9/28/2020	ND	31.71	N/A	695.02
MW-46	726.73	10/3/2020	ND	31.82	N/A	694.91
MW-46	726.73	10/19/2020	ND	31.89	N/A	694.84
MW-46	726.73	10/26/2020	ND	31.88	N/A	694.85
MW-46	726.73	11/9/2020	ND	31.88	N/A	694.85
MW-47	726.77	9/14/2020	ND	30.88	N/A	695.89
MW-47	726.77	9/18/2020	ND	30.75	N/A	696.02
MW-47	726.77	9/28/2020	ND	30.74	N/A	696.03
MW-47	726.77	10/3/2020	30.54	30.88	0.34	696.14
MW-47	726.77	10/19/2020	25.61	27.85	2.24	700.56
MW-47	726.77	11/9/2020	25.51	27.78	2.27	700.65
MW-48	723.09	9/18/2020	ND	33.44	N/A	689.65
MW-48	723.09	9/28/2020	ND	33.38	N/A	689.71
MW-48	723.09	10/3/2020	ND	33.57	N/A	689.52
MW-48	723.09	10/19/2020	ND	33.63	N/A	689.46
MW-48	723.09	10/26/2020	ND	33.65	N/A	689.44
MW-48	723.09	11/9/2020	ND	33.58	N/A	689.51
MW-49	727.58	9/18/2020	ND	32.29	N/A	695.29
MW-49	727.58	9/28/2020	ND	33.63	N/A	693.95
MW-49	727.58	10/3/2020	ND	33.75	N/A	693.83
MW-49	727.58	10/19/2020	ND	33.73	N/A	693.85
MW-49	727.58	10/26/2020	ND	33.76	N/A	693.82
MW-49	727.58	11/9/2020	ND	33.69	N/A	693.89

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Well ID	Top Of Casing Elevation¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation² (ft btoc)
MW-50	731.14	9/18/2020	ND	35.04	N/A	696.10
MW-50	731.14	9/28/2020	ND	36.74	N/A	694.40
MW-50	731.14	10/3/2020	ND	36.85	N/A	694.29
MW-50	731.14	10/19/2020	ND	36.88	N/A	694.26
MW-50	731.14	10/26/2020	ND	36.94	N/A	694.20
MW-50	731.14	11/9/2020	ND	36.90	N/A	694.24
MW-51	731.20	9/18/2020	ND	31.34	N/A	699.86
MW-51	731.20	9/28/2020	ND	37.08	N/A	694.12
MW-51	731.20	10/3/2020	ND	37.18	N/A	694.02
MW-51	731.20	10/19/2020	ND	37.18	N/A	694.02
MW-51	731.20	10/26/2020	ND	37.19	N/A	694.01
MW-51	731.20	11/9/2020	ND	37.18	N/A	694.02
MW-52	722.94	9/28/2020	ND	33.32	N/A	689.62
MW-52	722.94	10/3/2020	ND	33.48	N/A	689.46
MW-52	722.94	10/19/2020	ND	33.56	N/A	689.38
MW-52	722.94	10/26/2020	ND	33.60	N/A	689.34
MW-52	722.94	11/9/2020	ND	33.52	N/A	689.42
MW-52	722.94	10/21/2020	ND	35.56	N/A	687.38
MW-53	707.49	10/3/2020	ND	29.76	N/A	677.73
MW-53	707.49	10/19/2020	ND	25.59	N/A	681.90
MW-53	707.49	10/26/2020	ND	25.51	N/A	681.98
MW-53	707.49	11/9/2020	ND	25.40	N/A	682.09
MW-54	707.97	10/3/2020	ND	25.60	N/A	682.37
MW-54	707.97	10/19/2020	ND	25.41	N/A	682.56
MW-54	707.97	10/26/2020	ND	25.35	N/A	682.62
MW-54	707.97	11/9/2020	ND	25.26	N/A	682.71
MW-55	745.50	10/3/2020	ND	55.30	N/A	690.20
MW-55	745.50	10/19/2020	ND	53.23	N/A	692.27
MW-55	745.50	10/26/2020	ND	53.20	N/A	692.30
MW-55	745.50	11/9/2020	ND	53.28	N/A	692.22
MW-56	681.53	10/3/2020	ND	12.27	N/A	669.26
MW-56	681.53	10/19/2020	ND	11.86	N/A	669.67
MW-56	681.53	10/26/2020	ND	11.76	N/A	669.77
MW-56	681.53	11/9/2020	ND	11.36	N/A	670.17
MW-57	687.07	10/3/2020	ND	13.71	N/A	673.36
MW-57	687.07	10/19/2020	ND	13.11	N/A	673.96
MW-57	687.07	10/26/2020	ND	13.05	N/A	674.02
MW-57	687.07	11/9/2020	ND	12.20	N/A	674.87

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Well ID	Top Of Casing Elevation ¹	Date	Depth to Free Product (ft btoc)	Depth to Groundwater (ft btoc)	Free Product Thickness	Groundwater Elevation ² (ft btoc)
MW-58	717.30	10/3/2020	ND	29.77	N/A	687.53
MW-58	717.30	10/19/2020	ND	29.78	N/A	687.52
MW-58	717.30	10/26/2020	ND	29.74	N/A	687.56
MW-58	717.30	11/9/2020	ND	29.60	N/A	687.70
MW-59	719.38	10/3/2020	ND	31.26	N/A	688.12
MW-59	719.38	10/19/2020	ND	31.19	N/A	688.19
MW-59	719.38	10/26/2020	ND	31.18	N/A	688.20
MW-59	719.38	11/9/2020	ND	31.03	N/A	688.35
MW-59	719.38	10/28/2020	ND	33.18	N/A	686.20
MW-60	726.76	10/8/2020	ND	33.60	N/A	693.16
MW-60	726.76	10/19/2020	ND	33.62	N/A	693.14
MW-60	726.76	10/26/2020	ND	33.58	N/A	693.18
MW-60	726.76	11/9/2020	ND	33.49	N/A	693.27
MW-61***	NM	11/9/2020	ND	52.13	N/A	N/A

Notes:

ft btoc = Feet Below Top of Casing

N/A = Not Applicable

MW = Monitoring Well

ND = Not Detected

NM = Not Measured

¹ = Elevations surveyed in feet using the NAVD88 vertical datum.

² = Corrected Groundwater Elevation = (Top of Casing - Depth to Water) + (Free Product Thickness x 0.7324)

* = Initial monitoring well Top Of Casing surveyed prior to final well completion.

** = MW-23 re-installed; re-survey pending.

*** = MW-61: survey pending.

Table 3
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
 2020-L1-2448 Incident
 Huntersville, North Carolina

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)															MADEP VPH (µg/L)				
				Lead	Benzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				15	1	0.6	70	0.4	70	600	5	20	6	70	0.7	600	400	400	500	500	400	NE	NE	NE
92493062	MW-1_20200828	MW-01	08/28/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-1_20201021	MW-01	10/21/2020	50.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493062	MW-2_20200828	MW-02	08/28/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-2_20201021	MW-02	10/21/2020	19.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493062	MW-3_20200828	MW-03	08/28/2020	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-3_20201022	MW-03	10/22/2020	9.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-4_20200902	MW-04	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-4_20201021	MW-04	10/21/2020	19.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-5_20200902	MW-05	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-5_20201021	MW-05	10/21/2020	19.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-6_20200902	MW-06	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-6_20201021	MW-06	10/21/2020	33.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-7_20200902	MW-07	09/02/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501960	MW-7_20201023	MW-07	10/23/2020	73.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	1	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494322	MW-8_20200903	MW-08	09/03/2020	<5	<0.5	2.5	15.5	3.8	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	2.3	<0.5	<0.5	1.2	0.58	<100	<100	<100	<100
92495239	MW-8_20200913	MW-08	09/13/2020	<5	<0.5	1.6	12.8	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	0.56	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501345	MW-8_20201020	MW-08	10/20/2020	11.2	<0.5	<0.5	3.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493708	MW-9_20200902	MW-09	09/02/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495241	MW-9_20200913	MW-09	09/13/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-9_20201021	MW-09	10/21/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92493864	MW-11_20200903	MW-11	09/03/2020	<5	<0.5	2.1	18.3	3.7	<0.5	<0.5	<2	<0.5	<2	<0.5	4.1	1.2	1	<0.5	1.8	0.75	<100	<100	<100	<100
92495244	MW-11_20200913	MW-11	09/13/2020	<5	<0.5	<0.5	6.3	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	1.9	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501344	MW-11_20201020	MW-11	10/20/2020	17.8	1740	<20	<20	<20	172	286	99.8	29.5	<80	<20	<20	4370	265	<20	1110	645	16700	4580	1370	5950
92493708	MW-12_20200902	MW-12	09/02/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-12_20201021	MW-12	10/21/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495627	MW-13_20200915	MW-13	09/15/2020	<5	<0.5	2.2	21.7	0.54	<0.5	<0.5	<2	<0.5	<2	<0.5	4.4	1.5	0.76	<0.5	1.8	0.92	<100	<100	<100	<100
92499587	MW-13_20201007	MW-13	10/07/2020	<5	<0.5	0.55	15.1	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	2.8	0.53	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501345	MW-13_20201020	MW-13	10/20/2020	<5	<0.5	<0.5	5.1	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	1.2	0.97	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495239	MW-14_20200913	MW-14	09/13/2020	<5	<0.5	0.7	4.4	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501345	MW-14_20201020	MW-14	10/20/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	0.55	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92494640	MW-15_20200909	MW-15	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-15_20201021	MW-15	10/21/2020	10.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495905	MW-16_20200916	MW-16	09/16/2020	<5	<0.5	0.78	5.9	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500605	MW-16_20201007	MW-16	10/07/2020	<5	<0.5	<0.5	3.3	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501343	MW-16_20201020	MW-16	10/20/2020	7.8	<0.5	<0.5	2	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92495905	MW-17_20200916	MW-17	09/16/2020	<5	0.6	1.4	16.2	<0.5	<0.5	1.4	<2	<0.5	<2	<0.5	2.7	5.4	3.7	1.3	7.2	3.3	<100	<100	<100	109
92501343	MW-17_20201020	MW-17	10/20/2020	<5	<0.5	<0.5	8.9	<0.5	<0.5	0.82	<2	<0.5	<2	<0.5	1.2	2.1	2	0.71	3.6	1.8	<100	<100	<100	152

Table 3
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)															MADEP VPH (µg/L)				
				Lead	Benzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				15	1	0.6	70	0.4	70	600	5	20	6	70	0.7	600	400	400	500	500	400	NE	NE	NE
92494640	MW-18_20200909	MW-18	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501960	MW-18_20201023	MW-18	10/23/2020	7.8	<0.5	<0.5	<0.5	<0.5	5	<0.5	<2	1.4	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501960	DUP-3-20201023	MW-18	10/23/2020	<5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<2	0.54	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92495905	MW-19_20200916	MW-19	09/16/2020	<5	0.8	3.3	30.8	0.79	<0.5	<0.5	<2	<0.5	<2	<0.5	2.4	1.4	<0.5	<0.5	<0.5	0.53	<100	<100	<100	<100
92500605	MW-19_20201007	MW-19	10/07/2020	7.8	0.9	<0.5	24.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	2.6	1.9	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501343	MW-19_20201020	MW-19	10/20/2020	71.3	<0.5	<0.5	8.9	<0.5	1.3	<0.5	<2	<0.5	<2	<0.5	1.1	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92494640	MW-20_20200909	MW-20	09/09/2020	<5	<0.5	<0.5	0.77	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501960	MW-20_20201023	MW-20	10/23/2020	12.5	<0.5	<0.5	0.57	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92495905	MW-21_20200916	MW-21	09/16/2020	<5	<0.5	<0.5	8	<0.5	1.2	<0.5	<2	<0.5	<2	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501343	MW-21_20201020	MW-21	10/20/2020	8.1	38	<0.5	5.8	<0.5	12.2	2.2	<2	4.8	<2	<0.5	0.93	44.9	2.3	<0.5	14.2	7.7	187	<100	<100	251
92494640	MW-22_20200909	MW-22	09/09/2020	<5	14.5	<0.5	<0.5	<0.5	4.4	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92500608	MW-22_20201007	MW-22	10/07/2020	9.4	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501860	MW-22_20201022	MW-22	10/22/2020	<5	<0.5	<0.5	<0.5	<0.5	1.6	<0.5	<2	<0.5	<2	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92496816	MW-23_20200920	MW-23	09/20/2020	<5	<0.5	6.1	36.9	1.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92500605	MW-23R_20201007	MW-23	10/07/2020	32.2	<0.5	0.56	3.2	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501343	MW-23R_20201020	MW-23	10/20/2020	94.4	<0.5	<0.5	1.7	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92495103	MW-25_20200911	MW-25	09/11/2020	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501960	MW-25_20201023	MW-25	10/23/2020	97.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92494640	MW-26_20200909	MW-26	09/09/2020	<5	7.7	<0.5	<0.5	<0.5	1.3	1.8	<2	<0.5	<2	<0.5	<0.5	22.6	0.69	<0.5	6.4	3.1	<100	<100	<100	114
92494640	MW-27_20200909	MW-27	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501860	MW-27_20201022	MW-27	10/22/2020	18.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92494923	MW-28_20200909	MW-28	09/09/2020	<25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501355	MW-28_20201020	MW-28	10/20/2020	27.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92495241	MW-29_20200913	MW-29	09/13/2020	<5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501860	MW-29_20201022	MW-29	10/22/2020	<5	<0.5	<0.5	0.77	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92495103	MW-30_20200911	MW-30	09/11/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501616	MW-30_20201021	MW-30	10/21/2020	<5	<0.5	<0.5	0.58	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92495239	MW-31_20200913	MW-31	09/13/2020	<5	0.56	<0.5	1.7	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	3.1	0.61	<0.5	2.3	1.2	<100	<100	<100	<100
92500605	MW-31_20201007	MW-31	10/07/2020	<5	<0.5	<0.5	3	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501343	MW-31_20201020	MW-31	10/20/2020	<5	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92494864	MW-32_20200910	MW-32	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501860	MW-32_20201022	MW-32	10/22/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92494640	MW-33_20200909	MW-33	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501860	MW-33_20201022	MW-33	10/22/2020	16.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92494640	MW-34_20200909	MW-34	09/09/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501860	MW-34_20201022	MW-34	10/22/2020	5.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100

**Table 3
Summary of Monitoring Well Sampling Results**

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)															MADEP VPH (µg/L)				
				Lead	Benzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				15	1	0.6	70	0.4	70	600	5	20	6	70	0.7	600	400	400	500	500	400	NE	NE	NE
92494864	MW-35_20200910	MW-35	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92501616	MW-35_20201021	MW-35	10/21/2020	9.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92494864	MW-36_20200910	MW-36	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92501616	MW-36_20201021	MW-36	10/21/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92494864	MW-37_20200910	MW-37	09/10/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92501616	MW-37_20201021	MW-37	10/21/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92495907	MW-38_20200916	MW-38	09/16/2020	<5	3.4	0.74	4.3	<0.5	2	<0.5	<2	0.78	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92501960	MW-38_20201023	MW-38	10/23/2020	<5	30.9	<0.5	<0.5	<0.5	28.4	3.4	<2	12.2	<2	<0.5	<0.5	70.3	<0.5	<0.5	6.3	6.9	231	<100	<100	291
92495906	MW-39_20200916	MW-39	09/16/2020	<5	966	<5	13.9	<5	83.3	124	<20	10.8	<20	<5	<5	1,980	61.1	<5	407	209	4,280	732	177	5190
92495100	MW-40_20200911	MW-40	09/11/2020	<5	<0.5	<0.5	<0.5	<0.5	3.2	<0.5	<2	1.3	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92501343	MW-40_20201020	MW-40	10/20/2020	9.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92495103	MW-41_20200911	MW-41	09/11/2020	<10	<0.5	<0.5	<0.5	<0.5	0.72	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92501960	MW-41_20201023	MW-41	10/23/2020	18.2	<0.5	<0.5	<0.5	<0.5	2.3	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92495626	MW-42_20200915	MW-42	09/15/2020	<5	1.3	1.9	23.8	<0.5	<0.5	2.4	<2	<0.5	<2	<0.5	<0.5	10.8	5.3	1.4	13.3	6.2	<100	<100	<100	150
92500606	MW-42_20201007	MW-42	09/13/2020	<5	0.78	0.7	23.9	<0.5	<0.5	0.75	<2	<0.5	<2	<0.5	<0.5	1.8	1.3	<0.5	4.9	3.6	<100	<100	<100	<100
92501344	MW-42_20201020	MW-42	10/20/2020	<5	<0.5	<0.5	15.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92495907	MW-43_20200916	MW-43	09/16/2020	<5	<0.5	1.8	12.1	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	1.4	0.58	<0.5	1.5	0.83	<100	<100	<100	<100
92501960	MW-43_20201023	MW-43	10/23/2020	<5	<0.5	0.51	5.8	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92495627	MW-44_20200915	MW-44	09/15/2020	34.6	11.2	<0.5	18.5	<0.5	<0.5	8.4	<2	<0.5	2.1	0.78	<0.5	77.1	4.3	0.58	21.3	13.7	155	<100	<100	252
92501345	MW-44_20201020	MW-44	10/20/2020	<5	0.6	<0.5	1.2	<0.5	<0.5	0.53	<2	<0.5	<2	<0.5	<0.5	3	0.77	<0.5	2.7	1.4	<100	<100	<100	<100
92495624	MW-45_20200915	MW-45	09/15/2020	<5	2.8	1.4	20	<0.5	<0.5	3.1	<2	<0.5	<2	<0.5	<0.5	27.8	4.5	1.1	17.7	8.4	<100	<100	<100	154
92499587	MW-45_20201007	MW-45	10/07/2020	<5	1	0.64	15.8	<0.5	<0.5	0.88	<2	<0.5	<2	<0.5	<0.5	6.2	1.4	<0.5	6.7	3.7	<100	<100	<100	<100
92501345	MW-45_20201020	MW-45	10/20/2020	39.5	<0.5	0.58	11.7	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	0.91	<0.5	<0.5	1.3	0.74	<100	<100	<100	<100
92495627	MW-46_20200915	MW-46	09/15/2020	<5	1.6	2.5	26.2	0.58	<0.5	3.1	<2	<0.5	<2	<0.5	<0.5	17.3	3.7	0.83	15.5	6.6	<100	<100	<100	114
92501345	MW-46_20201020	MW-46	10/20/2020	<5	<0.5	<0.5	17.6	<0.5	<0.5	0.52	<2	<0.5	<2	<0.5	<0.5	1.2	1.4	<0.5	3.6	1.3	<100	<100	<100	<100
92495627	MW-47_20200915	MW-47	09/15/2020	6.3	<0.5	2	16.5	<0.5	<0.5	1.4	<2	<0.5	<2	<0.5	<0.5	6.3	1.5	<0.5	5.2	2.4	<100	<100	<100	<100
92496397	MW-48_20200918	MW-48	09/18/2020	9.6	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92501860	MW-48_20201022	MW-48	10/22/2020	19.8	40.4	<0.5	<0.5	<0.5	19	4.1	<2	<0.5	<2	<0.5	<0.5	63.3	1.7	<0.5	12	7.9	1270	<100	<100	1300
92501860	DUP-2-20201022	MW-48	10/22/2020	27.4	37.1	<0.5	<0.5	<0.5	17.2	3.6	<2	5.8	<2	<0.5	<0.5	58.7	1.5	<0.5	10.7	6.9	1030	<100	<100	1060
92496817	MW-49_20200922	MW-49	09/22/2020	5.5	<0.5	1	11.7	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	1.1	<0.5	<0.5	1.6	1.1	<100	<100	<100	<100
92499587	MW-49_20201007	MW-49	10/07/2020	<5	0.61	<0.5	2.2	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92501345	MW-49_20201020	MW-49	10/20/2020	34.4	<0.5	<0.5	1.6	<0.5	0.65	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100	
92497017	MW-50_20200922	MW-50	09/22/2020	6.7	205	<2	5.9	<2	37.2	20.2	<8	24.3	<8	<2	<2	375	11	<2	77.3	54.2	1570	284	<100	1930
92501345	MW-50_20201020	MW-50	10/20/2020	19.2	1370	<6.2	<6.2	<6.2	208	144	35.8	138	<25	<6.2	<6.2	1980	89.2	<6.2	611	336	7750	1990	398	10100

**Table 3
Summary of Monitoring Well Sampling Results**

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)															MADEP VPH (µg/L)				
				Lead	Benzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				15	1	0.6	70	0.4	70	600	5	20	6	70	0.7	600	400	400	500	500	400	NE	NE	NE
92496817	MW-51_20200922	MW-51	09/22/2020	<5	1.4	3.8	26.1	1.3	<0.5	0.84	<2	<0.5	<2	<0.5	<0.5	6.9	0.78	<0.5	3.6	5.7	<100	<100	<100	<100
92499587	MW-51_20201007	MW-51	10/07/2020	<5	1.4	1.6	19.3	<0.5	<0.5	0.71	<2	<0.5	<2	<0.5	<0.5	4.2	0.6	<0.5	2.5	2	<100	<100	<100	<100
92499587	Dup-1-20201007	MW-51	10/07/2020	<5	1.6	1.6	19.2	<0.5	<0.5	0.72	<2	<0.5	<2	<0.5	<0.5	4.8	0.7	<0.5	2.6	2.2	<100	<100	<100	<100
92501615	MW-51_20201021	MW-51	10/21/2020	5.1	0.52	0.95	13.4	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100	
92501615	DUP-1-20201021	MW-51	10/21/2020	<5	0.5	0.92	13	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100	
92497774	MW-52_20200928	MW-52	09/28/2020	20.3	8.9	0.76	6.3	<0.5	5.7	1	<2	1.6	<2	<0.5	<0.5	19.9	<0.5	<0.5	2.7	1.6	<100	<100	<100	171
92501960	MW-52_20201023	MW-52	10/23/2020	<5	31	<0.5	1.8	<0.5	26.7	3.5	<2	7.3	<2	<0.5	<0.5	80.2	0.59	<0.5	7.2	6	281	<100	<100	341
92499057	MW-53_20201006	MW-53	10/06/2020	37.6	<0.5	2	22.9	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	0.72	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-53_20201022	MW-53	10/22/2020	<5	<0.5	<0.5	6.4	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92499057	MW-54_20201006	MW-54	10/06/2020	8.2	<0.5	3	28.2	0.75	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-54_20201022	MW-54	10/22/2020	<5	<0.5	0.65	9.4	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92499057	MW-55_20201006	MW-55	10/06/2020	<5	99.7	0.92	6.9	<0.5	48	6	<2	19.6	<2	<0.5	<0.5	154	1.8	<0.5	24.5	20.4	455	<100	<100	566
92499057	DUP-01-20201006	MW-55	10/06/2020	<5	102	0.91	6.8	<0.5	48.9	6.1	<2	19.7	<2	<0.5	<0.5	157	1.9	<0.5	25.2	21	496	<100	<100	614
92501960	MW-55_20201023	MW-55	10/23/2020	<5	900	<12.5	<12.5	<12.5	144	457	<50	<12.5	85.7	<12.5	<12.5	3590	626	<12.5	1870	860	13000	4580	1720	6300
92499057	MW-56_20201006	MW-56	10/06/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	1.1	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-56_20201022	MW-56	10/22/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92499057	MW-57_20201006	MW-57	10/06/2020	<5	<0.5	<0.5	2.4	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-57_20201022	MW-57	10/22/2020	<5	<0.5	<0.5	3	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500608	MW-58_20201007	MW-58	10/07/2020	<5	<0.5	2.8	15.6	0.61	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501860	MW-58_20201022	MW-58	10/22/2020	<5	<0.5	1.8	9.5	0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500608	MW-59_20201007	MW-59	10/07/2020	<5	<0.5	<0.5	2.8	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501616	MW-59_20201021	MW-59	10/21/2020	<5	<0.5	<0.5	2.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92500607	MW-60_20201007	MW-60	10/07/2020	18	<0.5	4.1	15.2	1.3	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100
92501345	MW-60_20201020	MW-60	10/20/2020	20.4	<0.5	0.88	3.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	<100

Table 3
Summary of Monitoring Well Sampling Results

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)				VOCs (µg/L)													MADEP VPH (µg/L)				
				Lead	Benzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)	
NCAC 2L Standards				15	1	0.6	70	0.4	70	600	5	20	6	70	0.7	600	400	400	500	500	400	NE	NE	NE	
QC Data																									
92493062	TB-2	N/A	08/28/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA	
92493708	Trip Blank	N/A	09/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92493864	Trip Blank	N/A	09/02/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494322	Trip Blank	N/A	09/03/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92496397	Trip Blank	N/A	09/18/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494640	Trip Blank-03	N/A	09/09/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494923	Trip Blank-03	N/A	09/09/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92494864	Trip Blank-04	N/A	09/10/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495100	Trip Blank-05	N/A	09/11/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495103	Trip Blank-05	N/A	09/11/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495239	Trip Blank-06	N/A	09/13/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495241	Trip Blank-06	N/A	09/13/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495244	Trip Blank-06	N/A	09/13/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495624	Trip Blank-07	N/A	09/15/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495626	Trip Blank-07	N/A	09/15/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495627	Trip Blank-07	N/A	09/15/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495907	Trip Blank-07	N/A	09/16/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495905	Trip Blank-07	N/A	09/16/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92495906	Trip Blank-07	N/A	09/16/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92496816	TB-20200922	N/A	09/20/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92496817	TB-20200922	N/A	09/22/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92497017	TB-20200923	N/A	09/22/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92497774	TB-20200928	N/A	09/28/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92499587	Trip Blank	N/A	10/07/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92500605	Trip Blank	N/A	10/07/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92500606	Trip Blank	N/A	10/07/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501343	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501344	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501345	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501355	Trip Blank	N/A	10/20/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501615	Trip Blank	N/A	10/21/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA
92501616	TRIP BLANK	N/A	10/21/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<100	<100	<100	NA
92501960	TRIP BLANK	N/A	10/23/2020	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	NA	NA	NA	NA

**Table 3
Summary of Monitoring Well Sampling Results**

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Well ID	Sample Date	Metals (µg/L)	VOCs (µg/L)															MADEP VPH (µg/L)				
				Lead	Benzene	Bromodichloromethane	Chloroform	Dibromochloromethane	Diisopropyl ether	Ethylbenzene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	n-Propylbenzene	Tetrachloroethene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m&p-Xylene	o-Xylene	C5 - C8 Aliphatics	C9 - C12 Aliphatics	C9 - C10 Aromatics	VPH (Total)
NCAC 2L Standards				15	1	0.6	70	0.4	70	600	5	20	6	70	0.7	600	400	400	500	500	400	NE	NE	NE
92499587	EB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92499587	FB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92500605	EB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92500605	FB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92500606	EB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92500606	FB-1-20201007	N/A	10/07/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501616	FB-01-20201021	N/A	10/21/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501860	FB-2-20201022	N/A	10/22/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100
92501960	FB-3-20201023	N/A	10/23/2020	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<0.5	<2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<100	<100	<100	<100

Notes:

All data was collected and provided by AECOM

NA - Not Analyzed

NE - Not Established

All units reported in micrograms per liter (µg/L).

Only detected constituents are shown.

NCAC 2L Standard - North Carolina 15A NCAC 2L Groundwater Standard

"<" - Indicates compound was not detected above laboratory reporting limit

Lead - analyzed by Method 6010D

VOCs - Volatile Organic Compounds analyzed by Method SM 6200B

MADEP - Massachusetts Department of Environmental Protection; as required by North Carolina Department of Environmental Quality

VPH - Volatile Petroleum Hydrocarbon

Bold values indicate compound was detected above laboratory reporting limit

Shaded values indicate compound exceeded NCAC 2L Standard

**Table 4
Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
NCAC 2L			15	0.6	70
92492043	13736_PE_Dr	8/22/2020	NA	NA	NA
92492904	13800_H/C_Rd	8/27/2020	109	<0.50	<0.50
92493896	13800_HC_RD	09/02/2020	169	<0.50	<0.50
92495067	13800_HC_RD	09/10/2020	55.2	<0.50	<0.50
92495939	13800_HC_RD_20200916	09/16/2020	67	<0.50	<0.50
92497411	13800_HC_RD_20200924	09/24/2020	23	<0.50	<0.50
92498538	13800_HC_RD	10/01/2020	6.5	<0.50	<0.50
92499668	13800_HC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500721	13800_HC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50
92501794	13800_HC_RD_20201022	10/22/2020	<5.0	<0.50	<0.50
92502945	13800_HC_RD_20201029	10/29/2020	<5.0	<0.50	<0.50
92504298	13800_HC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92491028	13822_HC_Rd	8/16/2020	53.0	<0.50	<0.50
92492032	13822_HC_Rd	8/21/2020	14.2	NA	NA
92492033	FD_08212020	8/21/2020	10.3	NA	NA
92493878	13822_HC_RD	09/02/2020	11.6	<0.50	<0.50
92495055	13822_HC_RD	09/10/2020	<5.0	<0.50	<0.50
92495069	FD-091020	09/10/2020	<5.0	<0.50	<0.50
92495927	13822_HC_RD_20200916	09/16/2020	14.3	<0.50	<0.50
92497407	13822_HC_RD_20200924	09/24/2020	8.9	<0.50	<0.50
92491385	13831_Sims_Rd	8/17/2020	<5.0	<0.50	<0.50
92492683	13831_Sims_Rd	8/25/2020	<5.0	<0.50	<0.50
92494137	13831_SIMS_RD	09/03/2020	<5.0	<0.50	<0.50
92491367	13835_AC_Rd	8/17/2020	<5.0	<0.50	<0.50
92492460	13835_AC_Rd	8/25/2020	<5.0	<0.50	<0.50
92492469	FD1-08252020	8/25/2020	<5.0	<0.50	<0.50
92494135	13835_AC_RD	09/03/2020	<5.0	<0.50	<0.50
92495191	13835_AC_RD	09/11/2020	<5.0	<0.50	<0.50
92495943	13835_AC_RD_20200916	09/16/2020	<5.0	1.7	7.4
92497409	13835_AC_RD_20200924	09/24/2020	16.1	<0.50	<0.50
92498537	13835_AC_RD	10/01/2020	<5.0	<0.50	<0.50
92498539	FD-100120	10/01/2020	<5.0	<0.50	<0.50
92499665	13835_AC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500725	13835_AC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50

Table 4
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
NCAC 2L			15	0.6	70
92500731	DUP-1	10/15/2020	<5.0	<0.50	<0.50
92501805	13835_AC_RD_20201022	10/22/2020	<5.0	<0.50	<0.50
92502955	13835_AC_RD_20201029	10/29/2020	<5.0	<0.50	<0.50
92504283	13835_AC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92491363	13901_Sims_Rd	8/17/2020	<5.0	<0.50	<0.50
92491368	FD1_081720	8/17/2020	<5.0	<0.50	<0.50
92492466	13901_Sims_Rd	8/25/2020	<5.0	<0.50	<0.50
92494138	13901_SIMS_RD	09/03/2020	<5.0	<0.50	<0.50
92491259	13920_Sims_Rd	8/17/2020	<5.0	<0.50	<0.50
92492462	13920_Sims_Rd	8/25/2020	<5.0	<0.50	<0.50
92494130	13920_SIMS_RD	09/03/2020	<5.0	<0.50	<0.50
92491360	13923_AC_Rd	8/17/2020	<5.0	<0.50	<0.50
92492465	13923_AC_Rd	8/25/2020	<5.0	<0.50	<0.50
92494139	13923_AC_RD	09/03/2020	<5.0	<0.50	<0.50
92495190	13923_AC_RD	09/11/2020	<5.0	<0.50	<0.50
92495938	13923_AC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497416	13923_AC_RD_20200924	09/24/2020	5.5	<0.50	<0.50
92498533	13923_AC_RD	10/01/2020	<5.0	<0.50	<0.50
92499672	13923_AC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92491030	13926A_HC_Rd	8/16/2020	<5.0	<0.50	<0.50
92492029	13926A_HC_Rd	8/21/2020	<5.0	NA	<0.50
92493902	13926A_HC_RD	09/02/2020	<5.0	<0.50	<0.50
92495062	13926A_HC_RD	09/10/2020	<5.0	<0.50	<0.50
92495945	13926A_HC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497401	13926A_HC_RD_20200924	09/24/2020	<5.0	<0.50	<0.50
92498130	13926A_HC_RD_20200930	09/30/2020	<5.0	<0.50	<0.50
92499670	13926A_HC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500718	13926A_HC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50
92501815	13926A_HC_RD_20201022	10/22/2020	5.2	<0.50	<0.50
92502951	13926A_HC_RD_20201029	10/29/2020	6.6	<0.50	<0.50
92504292	13926A_HC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50

**Table 4
Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
NCAC 2L			15	0.6	70
92491030	13926B_HC_Rd	8/16/2020	<5.0	<0.50	8.9
92492030	13926B_HC_Rd	8/21/2020	NA	NA	8.4
92493891	13926B_HC_RD	09/02/2020	<5.0	<0.50	9.4
92495059	13926B_HC_RD	09/10/2020	<5.0	<0.50	7.6
92495941	13926B_HC_RD_20200916	09/16/2020	<5.0	<0.50	9.6
92495930	Field_Duplicate 09-16-2020	09/16/2020	<5.0	<0.50	10.1
92497412	13926B_HC_RD 20200924	09/24/2020	<5.0	<0.50	9.8
92498128	13926B_HC_RD_20200930	09/30/2020	<5.0	<0.50	6.3
92499661	13926B_HC_RD_20201008	10/08/2020	<5.0	<0.50	9.3
92500720	13926B_HC_RD_20201015	10/15/2020	<5.0	<0.50	8.9
92501809	13926B_HC_RD_20201022	10/22/2020	<5.0	<0.50	8.7
92502943	13926B_HC_RD_20201029	10/29/2020	<5.0	<0.50	8.9
92504284	13926B_HC_RD_20201105	11/05/2020	<5.0	<0.50	9.2
92492031	13937_AC_Rd	8/21/2020	<5.0	<0.50	<0.50
92492463	13937_AC_Rd	8/25/2020	<5.0	<0.50	<0.50
92494129	13937_AC_RD	09/03/2020	<5.0	<0.50	<0.50
92494126	FD-090320	09/03/2020	<0.50	<0.50	<0.50
92495051	13937_AC_RD	09/10/2020	<5.0	<0.50	<0.50
92495928	13937_AC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497405	13937_AC_RD 20200924	09/24/2020	<5.0	<0.50	<0.50
92498536	13937_AC_RD	10/01/2020	<5.0	<0.50	<0.50
92499667	13937_AC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50

**Table 4
Summary of Water Supply Well Sampling Results**

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)		VOCs (µg/L)	
			Lead	NCAC 2L	Bromodichloromethane	Chloroform
				15	0.6	70
92491152	13945_AC_Rd	8/17/2020	<5.0	<5.0	<0.50	<0.50
92492461	13945_AC_Rd	8/25/2020	<5.0	<5.0	<0.50	<0.50
92493888	13945_AC_RD	09/02/2020	<5.0	<5.0	<0.50	<0.50
92495063	13945_AC_RD	09/10/2020	<5.0	<5.0	<0.50	<0.50
92495935	13945_AC_RD_20200916	09/16/2020	<5.0	<5.0	<0.50	<0.50
92497410	13945_AC_RD_20200924	09/24/2020	<5.0	<5.0	<0.50	<0.50
92498532	13945_AC_RD	10/01/2020	<5.0	<5.0	<0.50	<0.50
92499669	13945_AC_RD_20201008	10/08/2020	<5.0	<5.0	<0.50	<0.50
92500726	13945_AC_RD_20201015	10/15/2020	<5.0	<5.0	<0.50	<0.50
92501817	DUP-1	10/22/2020	<5.0	<5.0	<0.50	<0.50
92501807	13945_AC_RD_20201022	10/22/2020	<5.0	<5.0	<0.50	<0.50
92502946	13945_AC_RD_20201029	10/29/2020	<5.0	<5.0	<0.50	<0.50
92504280	13945_AC_RD_20201105	11/05/2020	<5.0	<5.0	<0.50	<0.50
92491555	14015 ASBURY CHAPEL RD	8/18/2020	<5.0	<5.0	<0.50	<0.50
92492468	14015_AC_Rd	8/25/2020	<5.0	<5.0	<0.50	1.5
92493886	14015_AC_RD	09/02/2020	<5.0	<5.0	<0.50	4.4
92495058	14015_AC_RD	09/10/2020	<5.0	<5.0	<0.50	<0.50
92495932	14015_AC_RD_20200916	09/16/2020	<5.0	<5.0	<0.50	<0.50
92497403	14015_AC_RD_20200924	09/24/2020	<5.0	<5.0	<0.50	<0.50
92498133	14015_AC_RD_20200930	09/30/2020	<5.0	<5.0	<0.50	<0.50
92499671	14015_AC_RD_20201008	10/08/2020	<5.0	<5.0	<0.50	<0.50
92499673	DUP-1	10/08/2020	<5.0	<5.0	<0.50	<0.50
92500727	14015_AC_RD_20201015	10/15/2020	<5.0	<5.0	<0.50	<0.50
92501814	14015_AC_RD_20201022	10/22/2020	<5.0	<5.0	<0.50	<0.50
92502948	14015_AC_RD_20201029	10/29/2020	<5.0	<5.0	<0.50	<0.50
92504297	14015_AC_RD_20201105	11/05/2020	<5.0	<5.0	<0.50	<0.50
92491361	14024_Sims_Rd	8/17/2020	<5.0	<5.0	<0.50	<0.50
92492464	14024_Sims_Rd	8/25/2020	<5.0	<5.0	<0.50	<0.50
92494133	14024_SIMS_RD	09/03/2020	<5.0	<5.0	<0.50	<0.50
92493111	14037_Lawther_Rd	08/30/2020	37.3	<5.0	<0.50	<0.50
92495188	14037_LAWTHER_RD	09/11/2020	23.1	<5.0	<0.50	<0.50
92491027	14108_HC_Rd	8/15/2020	<5.0	<5.0	<0.50	<0.50
92492688	14108_HC_Rd	8/25/2020	<5.0	<5.0	<0.50	<0.50

Table 4
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
NCAC 2L			15	0.6	70
92491029	14226_HC_Rd	8/16/2020	<5.0	<0.50	<0.50
92492685	14226_HC_Rd	8/25/2020	<5.0	<0.50	<0.50
92493881	14226_HC_RD	09/02/2020	<5.0	<0.50	<0.50
92493905	FD_09_02_20	09/02/2020	<5.0	<0.50	<0.50
92495187	14226_HC_RD	09/11/2020	<5.0	<0.50	<0.50
92495193	FD-091120	09/11/2020	<5.0	<0.50	<0.50
92495934	14226_HC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497413	14226_HC_RD_20200924	09/24/2020	<5.0	<0.50	<0.50
92497418	DUP-1	09/24/2020	<5.0	<0.50	<0.50
92498535	14226_HC_RD	10/01/2020	6.1	<0.50	<0.50
92499662	14226_HC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500723	14226_HC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50
92501813	14226_HC_RD_20201022	10/22/2020	<5.0	<0.50	<0.50
92502953	14226_HC_RD_20201029	10/29/2020	<5.0	<0.50	<0.50
92502957	DUP-1	10/29/2020	<5.0	<0.50	<0.50
92504286	14226_HC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92504300	DUP-1	11/05/2020	<5.0	<0.50	<0.50
92495192	14401_HC_RD	09/11/2020	<5.0	<0.50	<0.50
92495926	14401_HC_RD_20200916	09/16/2020	<5.0	<0.50	<0.50
92497414	14401_HC_RD_20200924	09/24/2020	<5.0	<0.50	<0.50
92498534	14401_HC_RD	10/01/2020	<5.0	<0.50	<0.50
92499663	14401_HC_RD_20201008	10/08/2020	<5.0	<0.50	<0.50
92500730	14401_HC_RD_20201015	10/15/2020	<5.0	<0.50	<0.50
92501803	14401_HC_RD_20201022	10/22/2020	<5.0	<0.50	<0.50
92502940	14401_HC_RD_20201029	10/29/2020	<0.50	<0.50	<0.50
92504290	14401_HC_RD_20201105	11/05/2020	<5.0	<0.50	<0.50
92492048	15104_PL_Dr	8/22/2020	NA	NA	NA
92492044	15110_PL_Dr	8/22/2020	NA	NA	NA
92492047	15120_PL_Dr	8/22/2020	NA	NA	NA
92492046	15128_PL_Dr	8/22/2020	NA	NA	NA
92492045	15136_PL_Dr	8/22/2020	NA	NA	NA
92491031	16366_HC_Rd	8/16/2020	<5.0	<0.50	<0.50
92492689	HOA_Lawn	8/26/2020	<5.0	<0.50	<0.50
92492686	FD1_08262020	8/26/2020	<5.0	<0.50	<0.50

Table 4
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
 2020-L1-2448 Incident
 Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
NCAC 2L			15	0.6	70
92493898	HOA_LAWN	09/02/2020	<5.0	<0.50	<0.50
92495066	HOA_LAWN	09/10/2020	<5.0	<0.50	<0.50
QC Data					
92497418	FB-1	09/24/2020	<5.0	<0.50	<0.50
92492469	Field Blank	8/25/2020	<5.0	<0.50	<0.50
92492905	Field Blank	8/27/2020	<5.0	<0.50	<0.50
92492033	Field_Blank	8/21/2020	<5.0	NA	NA
92492686	Field_Blank	8/26/2020	<5.0	<0.50	<0.50
92493905	Field_Blank	09/02/2020	<5.0	<0.50	<0.50
92494126	Field_Blank	09/03/2020	<0.50	<0.50	<0.50
92495069	FIELD_BLANK	09/10/2020	<5.0	<0.50	<0.50
92495193	FIELD_BLANK	09/11/2020	<5.0	<0.50	<0.50
92495930	Field_Blank 09-16-2020	09/16/2020	<5.0	<0.50	<0.50
92491368	FIELD_BLANK_1	8/17/2020	<5.0	<0.50	<0.50
92499673	FB-1	10/08/2020	<5.0	<0.50	<0.50
92500731	FB-1	10/15/2020	<5.0	<0.50	<0.50
92501817	FB-1	10/22/2020	<5.0	<0.50	<0.50
92502957	FB-1	10/29/2020	<5.0	<0.50	<0.50
92504300	FB-1	11/05/2020	<5.0	<0.50	<0.50

Table 4
Summary of Water Supply Well Sampling Results

Colonial Pipeline Company
2020-L1-2448 Incident
Huntersville, North Carolina

Lab Report Number	Sample ID	Sample Date	Metals (µg/L)	VOCs (µg/L)	
			Lead	Bromodichloromethane	Chloroform
NCAC 2L			15	0.6	70
92492469	Trip Blank	8/25/2020	NA	<0.50	<0.50
92492905	Trip Blank	8/27/2020	NA	<0.50	<0.50
92491368	TRIP_BLANK	8/17/2020	NA	<0.50	<0.50
92491387	TRIP_BLANK	8/18/2020	NA	<0.50	<0.50
92491555	TRIP_BLANK	8/18/2020	NA	<0.50	<0.50
92492033	Trip_Blank	8/21/2020	NA	NA	<0.50
92493111	Trip_Blank	08/30/2020	NA	<0.50	<0.50
92493905	Trip_Blank	09/02/2020	NA	<0.50	<0.50
92494126	Trip_Blank	09/03/2020	NA	<0.50	<0.50
92495069	TRIP_BLANK	09/10/2020	NA	<0.50	<0.50
92495193	TRIP_BLANK	09/11/2020	NA	<0.50	<0.50
92495930	Trip_Blank	09/16/2020	NA	<0.50	<0.50
92497418	Trip_Blank	09/24/2020	NA	<0.50	<0.50
92499673	TRIP BLANK	10/08/2020	NA	<0.50	<0.50
92500731	TRIP BLANK	10/15/2020	NA	<0.50	<0.50
92501817	TRIP BLANK	10/22/2020	NA	<0.50	<0.50
92502957	TRIP BLANK	10/29/2020	NA	<0.50	<0.50
92504300	TRIP BLANK	11/05/2020	NA	<0.50	<0.50

Notes:

NA - Not Analyzed

N/A - Not Applicable

NE - Not Established

All units reported in micrograms per liter (µg/L).

Only detected constituents are shown.

Lead - Analyzed by Method 6010D

VOCs - Volatile Organic Compounds, analyzed by Method SM 6200B

Samples beginning with "FD", "Field_Duplicate" and "DUP" are field duplicates and co-samples of the preceding row.

Shading indicates a detection greater than the NCAC 2L Groundwater Standard

Bold text indicates a detection greater than the laboratory reporting limit.

* = Inactive or Non-potable Use well

No Volatile Petroleum Hydrocarbons detected.

"<" - Indicates compound was not detected above laboratory reporting limit

NCAC 2L Standard - North Carolina 15A NCAC 2L Groundwater Standard

APPENDIX A
BORING LOGS



Apex

BORING NUMBER MW-61

CLIENT Colonial Pipeline **PROJECT NAME** 2020-L1-2248
PROJECT NUMBER CPC20126 **PROJECT LOCATION** Huntersville, NC
DATE/TIME STARTED 11/5/2020 **COMPLETED** 11/6/2020 **GROUND ELEVATION** _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling **EQUIPMENT** _____
DRILLER _____ **GROUND WATER LEVELS AND TIME:**
LOGGED BY _____ **BOREHOLE DIAMETER** in. **DURING DRILLING** ---
METHOD _____ **AFTER DRILLING** ---

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 2011/30 13:13 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						<p>Casing Type: 4</p> <p>grout 4-in. Sch 40 PVC casing</p> <p>bentonite</p> <p>silica sand #2 4-in. Sch 40 PVC 0.010 slotted screen</p>
10						
20						
30						
40						
50						
60						



Apex

BORING NUMBER MW-61D

CLIENT Colonial Pipeline **PROJECT NAME** 2020-L1-2248
PROJECT NUMBER CPC20126 **PROJECT LOCATION** Huntersville, NC
DATE/TIME STARTED 11/4/2020 **COMPLETED** 11/14/2020 **GROUND ELEVATION** _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling/ Parrot & Wolf **EQUIPMENT** _____
DRILLER _____ **GROUND WATER LEVELS AND TIME:**
LOGGED BY Kyle Zigler / Andrew Strickland **BOREHOLE DIAMETER** in. **DURING DRILLING** ---
METHOD Sonic / Air Rotary 3-7/8 **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						Well Diameter: 4
0 - 7.5	SC 1	PID = 24.7 PID = 4.2 PID = 0	[Hatched pattern]	LEAN CLAY, SILTY CLAY, (CL) red brown 2.5YR 4/4, moist, low plasticity, saprolite, mica, trace organics		
7.5 - 12.5		PID = 0	[Dotted pattern]	SILTY SAND, SILTY SAND, (SM) strong brown 7.5YR 5/8, dry, non plastic, saprolite		
12.5 - 17.5	SC 2	PID = 0 PID = 5.8	[Dotted pattern]	SANDY SILT, SANDY SILT, (ML) pink 2.5YR 8/4, dry, non plastic, saprolite, banding, quartz, mica		
17.5 - 20.0			[Dotted pattern]	gravel in borehole		
20.0 - 27.5	SC 3	PID = 4.5 PID = 3.5 PID = 3.6	[Dotted pattern]	SANDY SILT, SANDY SILT, (ML) light gray 5Y 7/2, dry, non plastic, saprolite, quartz, mica		
27.5 - 35.0	SC 4	PID = 4.7 PID = 2.5 PID = 0	[Dotted pattern]	SANDY SILT, SANDY SILT, (ML) light gray 5Y 7/2, very hard, non plastic, saprolite, banding, quartz, mica		
35.0 - 57.0	SC 5	PID = 0 PID = 0 PID = 0	[Dotted pattern]	SILTY SAND, SILTY SAND, (SM) light gray, very hard, non plastic, saprolite, banding, quartz, mica		
57.0 - 60.0	SC 6	PID = 1.2 PID = 2.8 PID = 2.6 PID = 3.7	[Dotted pattern]	SILTY SAND, (SM) moist, saprolite		
60.0 - 67.0	SC 7	PID = 2.6 PID = 3.4 PID = 3.6	[Hatched pattern]	DIORITE, highly weathered, [Quartz Diorite]		
67.0 - 123.0			[Hatched pattern]	DIORITE, unweathered, [Quartz Diorite]	86-87.5 soft zone 89-93 soft zone 95-96 soft zone 98-103 water-bearing zone 101-102 soft zone air-lift yield 3 gpm 111-112 soft zone air-lift yield 15 gpm	4-in. Sch. 40 PVC surface isolation casing 4-in. open borehole
				Bottom of borehole at 123.0 feet.		

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 20/11/30 13:13 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ



BORING NUMBER MW-62

CLIENT Colonial Pipeline **PROJECT NAME** 2020-L1-2248
PROJECT NUMBER CPC20126 **PROJECT LOCATION** Huntersville, NC
DATE/TIME STARTED 11/15/2020 **COMPLETED** 11/15/2020 **GROUND ELEVATION** _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling **EQUIPMENT** _____
DRILLER _____ **GROUND WATER LEVELS AND TIME:**
LOGGED BY _____ **BOREHOLE DIAMETER** in. **DURING DRILLING** ---
METHOD _____ **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						Casing Type: 4
5						
10						
15						
20						
25						4-in. Sch 40 PVC casing grout
30						bentonite 1/4-in. pellets
35						silica sand #2 4-in. Sch 40 PVC 0.010 slotted screen

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 2011/30 13:13 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ



Apex

BORING NUMBER MW-63

CLIENT Colonial Pipeline **PROJECT NAME** 2020-L1-2248
PROJECT NUMBER CPC20126 **PROJECT LOCATION** Huntersville, NC
DATE/TIME STARTED 11/18/2020 **COMPLETED** 11/18/2020 **GROUND ELEVATION** _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling **EQUIPMENT** _____
DRILLER _____ **GROUND WATER LEVELS AND TIME:**
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** in. ∇ **DURING DRILLING** 35.00 ft
METHOD _____ **AFTER DRILLING** ---

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 20/11/30 13:13 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
5.0	PID = 5.7 PID = 6.1			LEAN CLAY, SILTY CLAY, (CL) red 2.5YR 4/6, organic odor, saprolite, micaceous, organics	initially identified as PMW-01	<p>Casing Type: 4</p> <p>grout 4-in. Sch 40 PVC casing</p> <p>bentonite</p> <p>silica sand #2 4-in. Sch 40 PVC 0.010 slotted screen</p>
10.0	PID = 8.8 PID = 10.1			SILT, CLAYEY SILT, (ML) red 2.5YR 4/8, saprolite, micaceous		
17.5	PID = 14.7 PID = 11.8 PID = 11.1			SANDY ELASTIC SILT, SANDY SILT, (ML) red yellow 7.5YR 6/6, saprolite, micaceous		
25.0	PID = 10.1 PID = 11.9 PID = 13.5			SANDY ELASTIC SILT, SANDY SILT, (ML) pale brown 10YR 6/3, saprolite, micaceous, banding		
37.5	PID = 2.4 PID = 2.3 PID = 2.1 PID = 2.3 PID = 3			SILTY SAND, SILTY SAND, (SM) brown 10YR 5/3, very fine to fine grained, dry, saprolite, micaceous		
47.5	PID = 3.6 PID = 2.8 PID = 3.2 PID = 3.4			POORLY GRADED SAND, SAND, (SP) gray brown 10YR 5/2, very fine to fine grained, trace silt, saprolite, micaceous, quartz, banding		
54.0	PID = 4 PID = 4.8 PID = 3.8			POORLY GRADED SAND, SAND, (SP) gray brown 10YR 5/2, very fine to fine grained, dense, trace silt, saprolite, micaceous, quartz, banding		
58.0	PID = 3.8			DIORITE, moderately weathered, [Quartz Diorite]		
58.5				Bottom of borehole at 58.0 feet.		



Apex

BORING NUMBER RW-41

CLIENT Colonial Pipeline **PROJECT NAME** 2020-L1-2248
PROJECT NUMBER CPC20126 **PROJECT LOCATION** Huntersville, NC
DATE/TIME STARTED 11/13/2020 **COMPLETED** 11/13/2020 **GROUND ELEVATION** _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling **EQUIPMENT** _____
DRILLER _____ **GROUND WATER LEVELS AND TIME:**
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** in. **DURING DRILLING** ---
METHOD _____ **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0 5 10 15 20 25 30				no stratigraphic logging	initially identified as PRW-2	<p>Casing Type: 4</p> <p>4-in. Sch 40 PVC casing grout</p> <p>bentonite</p> <p>silica sand #2</p> <p>4-in. Sch 40 PVC 0.010 slotted screen</p>
				34.0 Bottom of borehole at 34.0 feet.		

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 2011/30 13:14 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ



Apex

BORING NUMBER RW-42

CLIENT Colonial Pipeline **PROJECT NAME** 2020-L1-2248
PROJECT NUMBER CPC20126 **PROJECT LOCATION** Huntersville, NC
DATE/TIME STARTED 11/14/2020 **COMPLETED** 11/14/2020 **GROUND ELEVATION** _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling **EQUIPMENT** _____
DRILLER _____ **GROUND WATER LEVELS AND TIME:**
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** in. **DURING DRILLING** ---
METHOD _____ **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0				no stratigraphic logging	initially identified as PRW-1	Casing Type: 4
5						grout 4-in. Sch 40 PVC casing
10						bentonite
15						silica sand #2 4-in. Sch 40 PVC 0.010 slotted screen
20						
25						
30						
30			30.0			
			32.0	Bottom of borehole at 31.0 feet.		

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 2011/30 13:14 - P:\SHARE\GINT\BENTLEY\GINT\PROJECT\CPC_HUNTERSVILLE.GPJ



Apex

BORING NUMBER RW-43

CLIENT Colonial Pipeline **PROJECT NAME** 2020-L1-2248
PROJECT NUMBER CPC20126 **PROJECT LOCATION** Huntersville, NC
DATE/TIME STARTED 11/14/2020 **COMPLETED** 11/14/2020 **GROUND ELEVATION** _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling **EQUIPMENT** _____
DRILLER _____ **GROUND WATER LEVELS AND TIME:**
LOGGED BY Tommy Fisher **BOREHOLE DIAMETER** in. **DURING DRILLING** ---
METHOD _____ **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0				no stratigraphic logging		Casing Type: 4
5						4-in. Sch 40 PVC casing
10						grout
15						
20						bentonite 1/4-in. pellets
25						
30						silica sand #2
35						4-in. Sch 40 PVC 0.010 slotted screen
40						
43.0				Bottom of borehole at 43.0 feet.		

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 2011/30 13:14 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ



Apex

BORING NUMBER RW-44

CLIENT Colonial Pipeline **PROJECT NAME** 2020-L1-2248
PROJECT NUMBER CPC20126 **PROJECT LOCATION** Huntersville, NC
DATE/TIME STARTED 11/14/2020 **COMPLETED** 11/14/2020 **GROUND ELEVATION** _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling **EQUIPMENT** _____
DRILLER _____ **GROUND WATER LEVELS AND TIME:**
LOGGED BY Tommy Fisher **BOREHOLE DIAMETER** in. **DURING DRILLING** ---
METHOD _____ **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0				no stratigraphic logging		Casing Type: 4
5						grout 4-in. Sch 40 PVC casing
10						grout 4-in. Sch 40 PVC casing
15						grout 4-in. Sch 40 PVC casing
20						grout 4-in. Sch 40 PVC casing
25						grout 4-in. Sch 40 PVC casing
30						grout 4-in. Sch 40 PVC casing
34.0				Bottom of borehole at 34.0 feet.		bentonite silica sand #2 4-in. Sch 40 PVC 0.010 slotted screen

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 2011/30 13:15 - P:\SHARE\GINT\BENTLEY\GINT\PROJECTS\CPC_HUNTERSVILLE.GPJ



Apex

BORING NUMBER RW-45

CLIENT Colonial Pipeline **PROJECT NAME** 2020-L1-2248
PROJECT NUMBER CPC20126 **PROJECT LOCATION** Huntersville, NC
DATE/TIME STARTED 11/16/2020 **COMPLETED** 11/16/2020 **GROUND ELEVATION** _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling **EQUIPMENT** _____
DRILLER _____ **GROUND WATER LEVELS AND TIME:**
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** in. **∇ DURING DRILLING** 28.00 ft
METHOD Sonic **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0						
5	PID = 5.9 PID = 34.1			LEAN CLAY, SILTY CLAY, (CL) yellow red 5YR 4/6, moist, low plasticity, saprolite, micaceous	initially identified as PRW-7	<p>Casing Type: 4</p> <p>grout 4-in. Sch 40 PVC casing</p> <p>bentonite</p> <p>silica sand #2 4-in. Sch 40 PVC 0.010 slotted screen</p>
10	PID = 69.6 PID = 63.6 PID = 91.3			SILT, CLAYEY SILT, (ML) dark red brown 5YR 3/4, moist, hydrocarbon odor, saprolite, micaceous		
15	PID = 109.7 PID = 84.2			SILT, CLAYEY SILT, (ML) yellow red 5YR 5/8, moist, hydrocarbon odor, saprolite		
20	PID = 141 PID = 578.6 PID = 843.8			SANDY ELASTIC SILT, SANDY SILT, (ML) pale brown 10YR 6/3, hydrocarbon odor, saprolite, micaceous, banding		
25	PID = 642.1 PID = 803.6 PID = 531.2			SANDY ELASTIC SILT, SANDY SILT, (SM) gray 10YR 5/1, moist, hydrocarbon odor, saprolite, micaceous, banding		
30	PID = 619.9 PID = 721.3 PID = 772.6			SILTY SAND, SILTY SAND, (SM) brown 10YR 4/3, wet, hydrocarbon odor, saprolite		
35	PID = 414.4				bedrock at 41 feet bgs	
40						
41.0				Bottom of borehole at 41.0 feet.		

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 20/11/30 13:15 - P:\SHARE\GINT\BENTLEY\GINT\PROJECT\CPC_HUNTERSVILLE.GPJ



Apex

BORING NUMBER RW-47

CLIENT Colonial Pipeline **PROJECT NAME** 2020-L1-2248
PROJECT NUMBER CPC20126 **PROJECT LOCATION** Huntersville, NC
DATE/TIME STARTED 11/19/2020 **COMPLETED** 11/20/2020 **GROUND ELEVATION** _____ **TOP OF CASING** _____
DRILLING CONTRACTOR HD Drilling **EQUIPMENT** _____
DRILLER _____ **GROUND WATER LEVELS AND TIME:**
LOGGED BY Kyle Zigler **BOREHOLE DIAMETER** in. **DURING DRILLING** ---
METHOD Sonic **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	COMMENTS	WELL DIAGRAM
0				no stratigraphic logging		<p>Casing Type: 4</p> <p>grout</p> <p>4-in. Sch 40 PVC casing</p> <p>bentonite</p> <p>silica sand #2</p> <p>4-in. Sch 40 PVC 0.010 slotted screen</p>
5						
10						
15						
20						
25						
30						
35						
40						
			41.0	Bottom of borehole at 41.0 feet.		

CPC_HUNTERSVILLE_BH_MW - GINT STD US LAB.GDT - 2011/30 13:15 - P:\SHARE\GINT\BENTLEY\GINT\PROJECT\CPC_HUNTERSVILLE.GPJ

APPENDIX B
GROUNDWATER SAMPLING LOGS

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020 L1 2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-1	SAMPLE ID: MW-1
DATE: 10/21/2020	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 27.2 feet to 37.2 feet	STATIC DEPTH TO WATER (feet): 27.79	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (37.2 feet - 27.79 feet) X gallons/foot = 1.53 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 4.59
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TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
1459	1.53	1.53	-	-	6.23	15.1	120.0	7.67	233.8	olivegreen	none
1503	1.53	3.06	-	-	6.11	14.2	118.1	7.18	247.3	↓	↓
1510	1.53	4.59	-	-	6.08	15.4	117.6	7.25	264.2	↓	↓
					6.08						

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1510	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): -	TUBING MATERIAL CODE: -	FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>	FILTER SIZE: - μm
FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)		DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-1	4	AG	40ml	HCL	40ml x 4	6.08	6200	B	-
I	3	AG	40ml	HCL	40ml x 3	↓	VPH	↓	-
	1	PE	250ml	HN03	250ml	↓	Lead by 6010	↓	-

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC	
WELL NO: MW-2	SAMPLE ID: MW-2	DATE: 10/21/2020	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 19 feet to 34 feet	STATIC DEPTH TO WATER (feet): 29.41	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (34 feet - 29.41 feet) X 0.163 gallons/foot = 0.75 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 2.25
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TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) umhos/cm or (S/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
1034	0.75	0.75	-	-	6.38	14.7	129.6	3.77	120.2	H. brown	organic waste
1037	0.75	1.5	-	-	6.35	15.1	134.3	3.78	119.0	H. brown	I
1040	0.75	2.25	-	-	6.32	15.2	127.6	3.87	120.9	H. brown	I

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1040	SAMPLING ENDED AT: -
PUMP OR TUBING DEPTH IN WELL (feet): -	TUBING MATERIAL CODE: -	FIELD-FILTERED: Y <input checked="" type="checkbox"/>	FILTER SIZE: - µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-02	4	AG	40ml	HCL	40ml x 4	6.32	6200	B	-
I	3	AG	40ml	HCL	40ml x 3	I	VPH	I	-
	1	PE	250ml	HN03	250ml	I	Lead by 6010	I	-

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-3	SAMPLE ID: MW-3
DATE: 10-22-20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 21.78	PURGE PUMP TYPE OR BAILER: Bailor
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (30 feet - 21.78 feet) X 0.163 gallons/foot = 1.34 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
1350	1.34	1.34	-	22.19	4.97	15.7	146.0	5.67	266.9	LB	None
1355	1	2.68	-	23.57	5.05	15.7	140.3	4.40	314.8	LB	1
1400	1	4.02	-	24.61	5.22	16.1	143.6	4.38	335.3	LB	1

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Lei Tran / AECOM</u>				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 1400		SAMPLING ENDED AT: 1400		
PUMP OR TUBING DEPTH IN WELL (feet): -				TUBING MATERIAL CODE: -				FIELD-FILTERED: Y <input checked="" type="radio"/> N <input checked="" type="radio"/>		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N <input checked="" type="radio"/>				TUBING Y <input checked="" type="radio"/> N (replaced) <input checked="" type="radio"/>				DUPLICATE: Y <input checked="" type="radio"/> N <input checked="" type="radio"/>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
MW-3	4	AG	40ml	HCL	40ml x 4	5.22	6200		B		-	
1	3	AG	40ml	HCL	40ml x 3	1	VPH		1		-	
	1	PE	250ml	HN03	250ml	1	Lead by 6010		1		-	
REMARKS:												

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020 L1 244R Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-4	SAMPLE ID: MW-4
DATE: 10/21/2020	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 10 feet to 40 feet	STATIC DEPTH TO WATER (feet): 30.92	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (40 feet - 30.92 feet) X 0.163 gallons/foot = 1.48 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) - FLOW CELL VOLUME (only fill out if applicable) = - - gallons + (- - gallons/foot X - - feet) - - gallons = - - gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 4.44
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TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (micro mhos/cm or µS/cm)	DISSOLVED OXYGEN (mg/L or % saturation)	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
0920	1.48	1.48	-	-	5.83	14.7	111.6	7.56	267.6	H. brown	none
0930	1.48	2.96	-	-	5.83	14.8	98.9	6.85	279.0	H. brown	none
0935	1.48	4.44	-	-	6.02	14.8	102.8	5.08	182.7	H. brown	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 6.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Lore / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Lore	SAMPLING INITIATED AT: 0935	SAMPLING ENDED AT: -
PUMP OR TUBING DEPTH IN WELL (feet): -	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N)	FILTER SIZE: - µm
FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)	DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-A	4	AG	40ml	HCL	40ml x 4	6.02	6200	B	-
I	3	AG	40ml	HCL	40ml x 3	I	VPH	I	-
I	1	PE	250ml	HN03	250ml	I	Lead by 6010	I	-

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-5	SAMPLE ID: MW-5
DATE: 10/21/2020	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 12 feet to 42 feet	STATIC DEPTH TO WATER (feet): 26.36	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (42 feet - 26.36 feet) X 0.163 gallons/foot = 2.55 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 7.65

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (circle units) NTU or DRP	COLOR (describe)	ODOR (describe)
1422	2.95	2.95	-	-	5.65	17.4	96.4	4.93	265.2	brown	none
1430	2.95	5.1	-	-	6.77	16.5	100.2	6.28	245.2	brown	none
1440	2.95	7.65	-	-	6.34	17.4	99.9	3.88	230.9	lt. brown	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM				SAMPLER(S) SIGNATURE(S): Emily R. Love				SAMPLING INITIATED AT: 1440	SAMPLING ENDED AT: -
PUMP OR TUBING DEPTH IN WELL (feet): -				TUBING MATERIAL CODE: -				FIELD-FILTERED: Y (N)	FILTER SIZE: - μm
FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-5	4	AG	40ml	HCL	40ml x 4	6.34	6200	B	-
I	3	AG	40ml	HCL	40ml x 3	I	VPH	I	-
I	1	PE	250ml	HN03	250ml	I	Lead by 6010	I	-

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020 CI-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-6	SAMPLE ID: MW-6
DATE: 10/21/2020	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 10 feet to 40 feet	STATIC DEPTH TO WATER (feet): -	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (40 feet - 23.23 feet) X 0.163 gallons/foot = 2.73 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 8.19

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) % or % saturation	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
1135	2.73	2.73	-	-	6.30	15.5	124.5	8.53	220.4	brown	none
1144	2.73	2.73 5.46	-	-	6.19	15.2	99.3	5.29	255.4	brown	none
1148	2.73	8.19	-	-	6.07	15.3	105.6	6.58	278.5	brown	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM		SAMPLER(S) SIGNATURE(S): Emily L. Love		SAMPLING INITIATED AT: 1148	SAMPLING ENDED AT: -				
PUMP OR TUBING DEPTH IN WELL (feet): -		TUBING MATERIAL CODE: -	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: 2 μm					
FIELD DECONTAMINATION: PUMP Y <input type="checkbox"/> N <input type="checkbox"/>		TUBING Y <input type="checkbox"/> N (replaced) <input type="checkbox"/>		DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-6	4	AG	40ml	HCL	40ml x 4	6.07	6200	B	-
I	3	AG	40ml	HCL	40ml x 3	I	VPH	I	-
I	1	PE	250ml	HN03	250ml	I	Lead by 6010	I	-

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC	
WELL NO: MW-7	SAMPLE ID: MW-7	DATE: 10/23/2020	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 20 feet to 35 feet	STATIC DEPTH TO WATER (feet): 29.25	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (35 feet - 29.25 feet) X 0.163 gallons/foot = 0.94 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) - FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) - gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 2.82

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) umhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY NTU	COLOR (describe)	ODOR (describe)
0855	0.94	0.94	-	-	7.14	14.5	185.0	6.08	169.2	Brown	none
0857	0.94	1.88	-	-	5.77	14.4	163.6	5.62	206.9	Brown	none
0900	0.94	2.82	-	-	5.88	14.4	167.1	3.66	218.2	Brown	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love/AECOM	SAMPLER(S) SIGNATURE(S): Emily P. Love	SAMPLING INITIATED AT: 0900	SAMPLING ENDED AT: -
PUMP OR TUBING DEPTH IN WELL (feet): -	TUBING MATERIAL CODE: -	FIELD-FILTERED Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: - µm
FIELD DECONTAMINATION: PUMP Y <input type="checkbox"/> N <input type="checkbox"/>	TUBING Y <input type="checkbox"/> N (replaced) <input type="checkbox"/>	DUPLICATE: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-7	4	AG	40ml	HCL	40ml x 4	5.88	6200	B	-
I	3	AG	40ml	HCL	40ml x 3	-	VPH	I	-
I	1	PE	250ml	HN03	250ml	-	Lead by 6010	I	-

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020 L1 2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-08	SAMPLE ID: MW-08
DATE: 10/20/2020	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH (feet to feet): -	STATIC DEPTH TO WATER (feet): 31.87	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= (17.9 feet - 31.87 feet) X 0.65 gallons/foot = 10.42 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 25

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) µmhos/cm or (S/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU) or ORP	COLOR (describe)	ODOR (describe)
1300	10.42	10.42	-	-	6.78	15.9	168.9	5.21	178.3	lt. brown	none
1307	10.42	20.84	-	-	6.42	15.7	175.5	4.33	180.5	lt. brown	none
1320	25	25	-	-	6.53	15.5	193.6	5.26	163.1	lt. brown	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Jove	SAMPLING INITIATED AT: 1320	SAMPLING ENDED AT: -
PUMP OR TUBING DEPTH IN WELL (feet): -	TUBING MATERIAL CODE: -	FIELD-FILTERED: Y (N)	FILTER SIZE: - µm
FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)	DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-08	4	AG	40ml	HCL	40ml x 4	6.53	6200	B	-
I	3	AG	40ml	HCL	40ml x 3	I	VPH	I	-
I	1	PE	250ml	HN03	250ml	I	Lead by 6010	I	-

REMARKS: trace product

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-9	SAMPLE ID: MW-09
DATE: 10-21-20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 28.95	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (35.33 feet - 28.95 feet) X 0.163 gallons/foot = 1.04 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT: 1445	PURGING ENDED AT: 1500	TOTAL VOLUME PURGED (gallons): 3.12					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
1450	1.04	1.04	-	29.76	5.48	19.2	165.9	4.63	242.0	LB	None
1455	1.04	2.08	-	30.84	5.19	15.8	143.5	5.67	244.9	LB	None
1500	1.04	3.12	-	32.65	5.53	16.5	146.3	5.18	240.6	LB	None
17 10-21-20											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Le Tian / AECOM</u>				SAMPLER(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING INITIATED AT: 1500		SAMPLING ENDED AT: 1500	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y (N)		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)				DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-9	4	AG	40ml	HCL	40ml x 4	5.53	6200		B		
↓	3	AG	40ml	HCL	40ml x 3	↓	VPH		↓		
↓	1	PE	250ml	HN03	250ml	↓	Lead by 6010		↓		
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-11	SAMPLE ID: MW-11
DATE: 10/20/20	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (52.85 feet - 42.26 feet) X 0.65 gallons/foot = 6.88 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 1300	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1300	0.00	0.00		42.26	6.88	18.8	240.9	5.77		Clear	
1310	7.50	7.50		Dry	6.30	18.1	226.8	4.68		Red	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT:		SAMPLING ENDED AT:		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	4	AG	40ml	HCL	40ml x 4		6200					
	3	AG	40ml	HCL	40ml x 3		VPH					
	1	PE	250ml	HN03	250ml		Lead by 6010					
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-12	SAMPLE ID: MW-12
DATE: 10.21.20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.64	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (40.3 feet - 33.64 feet) X 0.163 gallons/foot = 1.04 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: 1030	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1040	1.04	1.04	-	34.55	6.23	16.9	189.6	6.87	329.1	LB	None
1045	1	2.08	-	35.55	6.13	16.4	188.4	6.50	321.3	LB	1
1050	1	3.12	-	36.40	6.53	19.8	190.1	4.35	297.1	LB	1
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> LT 10.21.20 </div>											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 1050		SAMPLING ENDED AT: 1050	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y (N)		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N (replaced))				DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-12	4	AG	40ml	HCL	40ml x 4	6.53	6200	B	-
1	3	AG	40ml	HCL	40ml x 3	1	VPH	1	-
1	1	PE	250ml	HN03	250ml	1	Lead by 6010	1	-

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

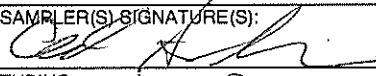
**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: <u>NW-13</u>	SAMPLE ID: <u>NW-13</u> DATE: <u>10/29/20</u>

PURGING DATA

WELL DIAMETER (inches): <u>4.1</u>	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = <u>(102.5 feet - 38.55 feet) X 0.65 gallons/foot = 15.6 gallons</u>											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>1520</u>	<u>0V</u>	<u>0 gal</u>	<u>—</u>	<u>38.55</u>	<u>5.83</u>	<u>18.3</u>	<u>225.9</u>	<u>4.87</u>	<u>—</u>	<u>CLEAR</u>	<u>SLIGHT PESTO</u>
<u>1530</u>	<u>1V</u>	<u>16 gal</u>	<u>1.6</u>	<u>57.55</u>	<u>5.77</u>	<u>17.9</u>	<u>285.1</u>	<u>5.07</u>	<u>—</u>	<u>CLEAR</u>	<u>—</u>
<u>Dry @ ~20 GAL, sampled @ 1530</u>											
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>COLEMAN MARSHIN</u>				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <u>1530</u>		SAMPLING ENDED AT: <u>1545</u>			
PUMP OR TUBING DEPTH IN WELL (feet): <u>~60'</u>				TUBING MATERIAL CODE: <u>PE</u>		FIELD-FILTERED: Y <input checked="" type="checkbox"/> <u>NO</u>		FILTER SIZE: µm					
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> <u>Y</u> N TUBING <input checked="" type="checkbox"/> <u>Y</u> N (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> <u>NO</u>									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
	<u>4</u>	<u>AG</u>	<u>40ml</u>	<u>HCL</u>	<u>40ml x 4</u>	<u>5.77</u>	<u>6200</u>		<u>ESP</u>		<u>~100</u>		
	<u>3</u>	<u>AG</u>	<u>40ml</u>	<u>HCL</u>	<u>40ml x 3</u>	<u>5.77</u>	<u>VPH</u>		<u>BSP</u>		<u>~100</u>		
	<u>1</u>	<u>PE</u>	<u>250ml</u>	<u>HN03</u>	<u>250ml</u>	<u>5.77</u>	<u>Lead by 6010</u>		<u>BSP</u>		<u>~100</u>		
REMARKS:													
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)													
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)													

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24 GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-14	SAMPLE ID: MW-14
DATE: 10/20/20	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: feet to 43.2 feet	STATIC DEPTH TO WATER (feet): 31.27	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				3 w = 23.37							
= (43.2 feet - 31.27 feet) X gallons/foot = 7.79 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 23.4							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
	7.8	7.8	NA	NA	5.23	18.0	164.3	4.67	303.3	Brn	None
13:57	7.8	15.6	NA	NA	5.31	16.9	156.9	3.12	303.5	Brn	None
14:06	7.8	23.4	NA	NA	5.50	17.9	166.5	4.19	301.4	L-Brn	None
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TD/JH AECOM			SAMPLER(S) SIGNATURE(S):			SAMPLING INITIATED AT:		SAMPLING ENDED AT: 14:10	
PUMP OR TUBING DEPTH IN WELL (feet): NA			TUBING MATERIAL CODE: NA			FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y <input type="radio"/> N <input checked="" type="radio"/>			TUBING Y <input type="radio"/> N (replaced) NA <input checked="" type="radio"/>			DUPLICATE: Y <input checked="" type="radio"/> N <input type="radio"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	4	AG	40ml	HCL	40ml x 4		6200		
	3	AG	40ml	HCL	40ml x 3		VPH		
	1	PE	250ml	HN03	250ml		Lead by 6010		
REMARKS: PTD = 0.1 ppm									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-15	SAMPLE ID: MW-15
DATE: 10.21.20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 34.90	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (41.80 feet - 34.90 feet) X 0.163 gallons/foot = 1.13 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —		FINAL PUMP OR TUBING DEPTH IN WELL (feet): —		PURGING INITIATED AT: 1140		PURGING ENDED AT: 1200		TOTAL VOLUME PURGED (gallons): 3.39			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μ mhos/cm or S/cm	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1150	1.13	1.13	—	35.21	6.31	16.6	163.4	5.84	286.9	LB	None
1155	↓	2.26	—	35.39	5.83	16.2	155.6	6.86	303.9	LB	None
1200	↓	3.39	—	36.18	5.94	16.1	158.3	6.04	293.8	LB	None

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM		SAMPLER(S) SIGNATURE(S): [Signature]		SAMPLING INITIATED AT: 1200	SAMPLING ENDED AT: 1200
PUMP OR TUBING DEPTH IN WELL (feet): —		TUBING MATERIAL CODE:		FIELD-FILTERED: Y <input checked="" type="radio"/> N	FILTER SIZE: ___ μ m
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N		TUBING Y <input checked="" type="radio"/> N (replaced)		DUPLICATE: Y <input checked="" type="radio"/> N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-15	4	AG	40ml	HCL	40ml x 4		6200	B	—
↓	3	AG	40ml	HCL	40ml x 3		VPH	↓	—
↓	1	PE	250ml	HN03	250ml		Lead by 6010	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-16	SAMPLE ID: MW-16
DATE: 10.19.20	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 34.90	PURGE PUMP TYPE OR BAILER: Bailer							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (50.4 feet - 34.90 feet) X 0.653 gallons/foot = 10.12 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: 0920	PURGING ENDED AT: 1000	TOTAL VOLUME PURGED (gallons): 14							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0935	10	-	-	35.22	6.62	17.8	181.2	4.63	-	LB	-
0950	12	-	-	43.44	6.79	18.0	129.8	3.58	-	LB	-
0955	14	-	-	48.14	6.82	18.2	146.8	4.91	-	LB	-
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian IAE COM				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 1000		SAMPLING ENDED AT: 1000		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
MW-16	4	AG	40ml	HCL	40ml x 4	6.82	6200		B		-	
I	3	AG	40ml	HCL	40ml x 3	I	VPH		I		-	
I	1	PE	250ml	HN03	250ml	I	Lead by 6010		I		-	
REMARKS: Dry at 14 gallons												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-17	SAMPLE ID: MW-17
DATE: 10-19-20	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 10 feet to 50 feet	STATIC DEPTH TO WATER (feet): 35.75	PURGE PUMP TYPE OR BAILER: Bailer							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (50 feet - 35.75 feet) X 0.653 gallons/foot = 9.30 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT: 1035	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
1055	9.30	9.30	-	46.35	6.38	19.9	104.3	1.72	73.5	LB	None
1100	4.7	14.0	-	49.17	6.39	20.8	110.2	4.42	60.4	LB	None
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 1100		SAMPLING ENDED AT: 1100		
PUMP OR TUBING DEPTH IN WELL (feet): -				TUBING MATERIAL CODE:				FIELD-FILTERED: Y (N)		FILTER SIZE: ___ µm		
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N replaced)				DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
MW-17	4	AG	40ml	HCL	40ml x 4		6200					
L	3	AG	40ml	HCL	40ml x 3		VPH					
L	1	PE	250ml	HN03	250ml		Lead by 6010					
REMARKS: Dry at 14 gallons												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-17-2448 INCIDENT	SITE LOCATION: Huntersville NC
WELL NO: MW-18	SAMPLE ID: MW-18
DATE: 10/23/2020	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 30 feet to 45 feet	STATIC DEPTH TO WATER (feet): 39.93	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY = 45 feet - 39.93 feet X 0.163 gallons/foot = 0.83 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME - (TUBING CAPACITY X TUBING LENGTH) - FLOW CELL VOLUME = gallons - (gallons/foot X feet) - gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 2.49

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	ORP TURBIDITY (NTUs) (mV)	COLOR (describe)	ODOR (describe)
1020	0.83	0.83	-	-	6.06	16.9	156.4	5.25	228.5	lt. Brown	none
1022	0.83	1.66	-	-	6.02	16.9	154.4	5.35	239.5	lt. Brown	none
1025	0.83	2.49	-	-	6.17	17.5	156.4	4.22	254.9	lt. Brown	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. de Kozlowski / AECOM				SAMPLER(S) SIGNATURE(S): <i>M. de Kozlowski</i>				SAMPLING INITIATED AT: 1030		SAMPLING ENDED AT: 1035	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: <input checked="" type="checkbox"/> Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-18	4	AG	40ml	HCL	40ml x 4	6.17	6200		B		
MW-18	3	AG	40ml	HCL	40ml x 3	↓	VPH		B		
MW-18	1	PE	250ml	HN03	250ml		Lead by 6010		B		

REMARKS: DUP-3-20201023

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-19	SAMPLE ID: MW-19
DATE: 10.20.20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 16 feet to 36 feet	STATIC DEPTH TO WATER (feet): 31.30	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (36 feet - 31.3 feet) X 0.653 gallons/foot = 3.07 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: 1120	PURGING ENDED AT: 1130	TOTAL VOLUME PURGED (gallons): 8							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or (S/cm)	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
1125	8	8	-	35.90	7.01	20.3	196.3	3.59	91.8	LB	NONE
<div style="position: absolute; top: 50px; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> L7 10.20.20 </div>											
<small>WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)</small>											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian LAECOM				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: 1130		SAMPLING ENDED AT: 1130		
PUMP OR TUBING DEPTH IN WELL (feet): -				TUBING MATERIAL CODE:				FIELD-FILTERED: Y (N)		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N (replaced))				DUPLICATE: Y (N)				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
MW-19	4	AG	40ml	HCL	40ml x 4		6200		B		-	
I	3	AG	40ml	HCL	40ml x 3		VPH		I		-	
	1	PE	250ml	HN03	250ml		Lead by 6010		I		-	
REMARKS: Dry at 8 gallons												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020 L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-20	SAMPLE ID: MW-20
DATE: 10/23/2020	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 33 feet to 48 feet	STATIC DEPTH TO WATER (feet): 42.4	PURGE PUMP TYPE OR BAILER: Bailer							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (48 feet - 42.4 feet) x 0.163 gallons/foot = 0.96 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME - (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons - (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 2.88							
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
1054	0.96	0.96	-	-	6.23	17.0	208.1	5.84	285.6	Brown	none
1056	0.96	1.92	-	-	6.34	16.6	205.5	5.41	283.0	Brown	none
1100	0.96	2.88	-	-	6.39	17.0	193.4	4.44	278.0	Brown	none
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM				SAMPLER(S) SIGNATURE(S): Emily Love				SAMPLING INITIATED AT: 1100		SAMPLING ENDED AT:			
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N Filtration Equipment Type:		FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-20	4	AG	40ml	HCL	40ml x 4	6.39	6200		B		-		
I	3	AG	40ml	HCL	40ml x 3	I	VPH		I		-		
I	1	PE	250ml	HN03	250ml	I	Lead by 6010		I		-		
REMARKS:													
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)													
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)													

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-21	SAMPLE ID: MW-21
DATE: 6/20/20	

PURGING DATA

WELL DIAMETER (inches): 4.11	TUBING DIAMETER (inches): /	WELL SCREEN INTERVAL DEPTH: 50 feet to 15.52 feet	STATIC DEPTH TO WATER (feet): 30.82	PURGE PUMP TYPE OR BAILER: BAILER							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (50 feet - 30.82 feet) X 10.65 gallons/foot = 12.52 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) NA = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
0920	0	0	/	30.82	7.89	17.5	459.0	2.81	CLEAR	->	NONE
0935	1V	12.5	/	37.83	7.45	17.5	212.3	3.46	MUDDY	->	NONE
0945	2V	25.0	/	45.31	6.53	17.5	190.7	4.42	MUDDY	->	NONE
0950	280AL	28.6AL	/	/	6.44	17.4	109.3	4.63	MUDDY	->	NONE
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: COLEMAN MARSHALL NELSON				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 0950		SAMPLING ENDED AT: 6003			
PUMP OR TUBING DEPTH IN WELL (feet): /				TUBING MATERIAL CODE: /				FIELD-FILTERED: Y <input checked="" type="checkbox"/>		FILTER SIZE: / µm			
FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)				DUPLICATE: Y N									
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
	4	AG	40ml	HCL	40ml x 4	6.48	6200		BAIL		NA		
	3	AG	40ml	HCL	40ml x 3	6.44	VPH		B		NA		
	1	PE	250ml	HN03	250ml	6.44	Lead by 6010		B		NA		
REMARKS:													
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)													
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)													

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020 LI 2448 Incident		SITE LOCATION: Huntersville, NC	
WELL NO: MW-22	SAMPLE ID: MW-22	DATE: 10/22/20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: 22.0 feet to 37.0 feet	STATIC DEPTH TO WATER (feet): 35.04	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (37.09 feet - 35.04 feet) X 0.163 gallons/foot = 0.33 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) - FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) - gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 0.99
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TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) umhos/cm or uS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	ORP TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1333	0.33	0.33	—	—	6.49	15.1	177.6	5.63	224.8	lt. brown	none
1336	0.33	0.66	—	—	6.17	15.0	172.8	6.18	222.3	lt. brown	none
1340	0.33	0.99	—	—	6.05	15.1	172.6	6.32	252.6	lt. brown	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. de Kozlewski / AECOM	SAMPLER(S) SIGNATURE(S): <i>M. de Kozlewski</i>	SAMPLING INITIATED AT: 1340	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y <input checked="" type="checkbox"/>	FILTER SIZE: — µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-22	4	AG	40ml	HCL	40ml x 4	6.05	6200	B	—
I	3	AG	40ml	HCL	40ml x 3	I	VPH	I	—
I	1	PE	250ml	HN03	250ml	I	Lead by 6010	I	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES:** 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-23R	SAMPLE ID: MW-23R
DATE: 10/20/20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: feet to 45 feet	STATIC DEPTH TO WATER (feet): 29.80	PURGE PUMP TYPE OR BAILER: B							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (45 feet - 29.80 feet) X .163 gallons/foot = 2.48 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 7.44							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP mV	COLOR (describe)	ODOR (describe)
NA	2.48	2.48	NA	NA	6.34	17.5	100.5	6.82	216.9	Brn	None
NA	2.48	4.96	NA	NA	5.79	17.5	111.2	6.64	243.7	Brn	None
NA	2.48	7.44	NA	NA	5.93	18.1	113.9	6.16	244.6	Brn	None
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: T.D./J.H. AECOM				SAMPLER(S) SIGNATURE(S) 				SAMPLING INITIATED AT:		SAMPLING ENDED AT: 10:10		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N Filtration Equipment Type:		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)				DUPLICATE: Y N								
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	4	AG	40ml	HCL	40ml x 4		6200					
	3	AG	40ml	HCL	40ml x 3		VPH					
	1	PE	250ml	HN03	250ml		Lead by 6010					
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: Mw-25	SAMPLE ID: Mw-25
DATE: 10/23/20	

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (60.25 feet - 43.55 feet) X 0.163 gallons/foot = 2.7 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μ mhos/cm or μ S/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0940	2.7	2.7	—	43.59	5.21	16.7	197.7	9.96	—	Muddy	NONE
0945	5.4	5.4	—	43.63	5.24	16.5	195.7	6.54	—	V. Muddy	NONE
0750	8.1	8.1	—	43.72	5.20	16.5	191.0	5.90	—	V. Muddy	NONE
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. MARCHIN			SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: 0755		SAMPLING ENDED AT: 0005	
PUMP OR TUBING DEPTH IN WELL (feet): NA			TUBING MATERIAL CODE: NA			FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ μ m	
FIELD DECONTAMINATION: PUMP Y N			TUBING Y N (replaced)			DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	4	AG	40ml	HCL	40ml x 4	5.20	6200	B	—
	3	AG	40ml	HCL	40ml x 3	5.20	VPH	B	—
	1	PE	250ml	HN03	250ml	5.20	Lead by 6010	B	—
REMARKS:									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24 GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-27	SAMPLE ID: MW-27
DATE: 10/22/2020	

PURGING DATA

WELL DIAMETER (inches)	2	TUBING DIAMETER (inches)	-	WELL SCREEN INTERVAL DEPTH	76 feet to 42 feet	STATIC DEPTH TO WATER (feet)	33.20	PURGE PUMP TYPE OR BAILER	Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY									
= (42 feet - 33.20 feet) X 0.163 gallons/foot = 1.43 gallons									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME									
= gallons + (gallons/foot X feet) + gallons = gallons									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		-		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		-		PURGING ENDED AT:	
-		-		-		-		TOTAL VOLUME PURGED (gallons):	

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or US/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
1513	1.43	1.43	-	-	6.20	14.9	147.6	8.47	281.8	Brown	none
1516	1.43	2.86	-	-	6.10	14.6	146.0	6.43	287.2	Brown	none
1520	1.43	4.29	-	-	6.09	14.7	147.5	5.90	295.6	Brown	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Emily Love / AECOM</i>		SAMPLER(S) SIGNATURE(S): <i>Emily P. Love</i>		SAMPLING INITIATED AT: 1520	SAMPLING ENDED AT: 1525				
PUMP OR TUBING DEPTH IN WELL (feet): -		TUBING MATERIAL CODE: -		FIELD-FILTERED: Y (N) Filtration Equipment Type: (N)	FILTER SIZE: - μm				
FIELD DECONTAMINATION: PUMP Y N		TUBING Y N (replaced)		DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
MW-27	4	AG	40ml	HCL	40ml x 4	6.09	6200	B	-
I	3	AG	40ml	HCL	40ml x 3	I	VPH	I	-
I	1	PE	250ml	HN03	250ml	I	Lead by 6010	I	-

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-28	SAMPLE ID: MW-28
DATE: 10/20/20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: feet to 39.8 feet	STATIC DEPTH TO WATER (feet): 29.31	PURGE PUMP TYPE OR BAILER: Bailer							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (39.80 feet - 29.31 feet) X .163 gallons/foot = 1.7 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA	TOTAL VOLUME PURGED (gallons): 5.1							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μ mhos/cm or μ S/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) OR PMV	COLOR (describe)	ODOR (describe)
NA	1.7	1.7	NA	NA	6.32	17.4	160.7	5.48	221.1	Brown	None
NA	1.7	3.4	NA	NA	6.22	17.5	142.4	4.93	219.8	Brown	None
NA	1.7	5.1	NA	NA	6.22	17.6	149.5	4.42	219.1	Brown	None
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: J.H./T.D. AECOM				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: NA		SAMPLING ENDED AT: 09:30		
PUMP OR TUBING DEPTH IN WELL (feet): NA				TUBING MATERIAL CODE: NA				FIELD-FILTERED: Y N		FILTER SIZE: _____ μ m		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/>				TUBING Y <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	4	AG	40ml	HCL	40ml x 4		6200					
	3	AG	40ml	HCL	40ml x 3		VPH					
	1	PE	250ml	HN03	250ml		Lead by 6010					
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

Revision Date: February 12, 2009

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: 2000-1-0448 (Hobbes) SITE LOCATION: Hamletville, NC
 WELL NO: MW-29 SAMPLE ID: MW-29 DATE: 10/22/2020

PURGING DATA

WELL DIAMETER (inches): 4 TUBING DIAMETER (inches): 1.4 WELL SCREEN INTERVAL (feet to feet): 3.08 STATE DEPTH TO WATER (feet): 3.08 PUMPING EQUIPMENT TYPE: Reverse Peristaltic Peristaltic Bladder Electric Submersible Other
 WELL VOLUME PURGED (gallons): 53.25 WELL VOLUME (gallons): 30.08 TOTAL WELL DEPTH (feet): 0.6 TOTAL VOLUME PURGED (gallons): 15.06
 EQUIPMENT VOLUME PURGED (gallons): 0 EQUIPMENT VOLUME (gallons): 0 PUMP VOLUME (gallons): 0 TUBING CAPACITY (gallons per foot): 0 TUBING LENGTH (feet): 0 FLOW CELL VOLUME (gallons): 0
 INITIAL CLAMP OR TUBING DEPTH IN WELL (feet): 48 FINAL CLAMP OR TUBING DEPTH IN WELL (feet): 48 PURGING INITIATED AT: 1401 PURGING ENDED AT: 1447 TOTAL VOLUME PURGED (gallons): 60.18

TIME	VOLUME PURGED (gallons)	CUMULATIVE VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	ON STANDARD WIRE	TEMP (°C)	COND (micro mhos/cm or µS/cm)	DISSOLVED OXYGEN (mg/L or % saturation)	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
1418	15.06	15.06	1.67	35.98	6.47	15.0	162.1	2.65	211.8	clear	none
1432	15.06	30.12	1.08	37.02	6.23	14.6	164.6	4.57	268.3	clear	none
1443	15.06	45.18	1.37	37.32	6.29	15.1	165.5	4.82	267.9	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02, 1" = 0.04, 1.25" = 0.06, 2" = 0.16, 3" = 0.37, 4" = 0.65, 5" = 1.02, 6" = 1.47, 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1.5" = 0.0006, 3.16" = 0.0014, 1.4" = 0.0026, 5.16" = 0.004, 3.8" = 0.006, 1.2" = 0.010, 5.8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor, BP = Bladder Pump, ESP = Electric Submersible Pump, PP = Peristaltic Pump, O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): Emily Loe AFFILIATION: AECOM SAMPLER(S) SIGNATURE(S): Emily R. Jon SAMPLING INITIATED AT: 1443 SAMPLING ENDED AT: 1447
 PUMP OR TUBING DEPTH IN WELL (feet): 48 TUBING MATERIAL CODE: PE FIELD FILTERED: Y FILTERATION EQUIPMENT TYPE: N FILTER SIZE: 0 µm
 FIELD DECONTAMINATION: PUMP Y TUBING Y (replaced) DUPLICATE: Y

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml-per-minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
<u>MW-29</u>	<u>4</u>	<u>AG</u>	<u>40ml</u>	<u>HCL</u>	<u>40ml x 4</u>	<u>6.29</u>	<u>6200</u>	<u>ESP</u>	<u>1.37</u>
<u>1</u>	<u>3</u>	<u>AG</u>	<u>40ml</u>	<u>HCL</u>	<u>40ml x 3</u>	<u>1</u>	<u>VPH</u>	<u>1</u>	<u>1</u>
<u>1</u>	<u>1</u>	<u>PE</u>	<u>250ml</u>	<u>HN03</u>	<u>250ml</u>	<u>1</u>	<u>Lead by 6010</u>	<u>1</u>	<u>1</u>

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-30	SAMPLE ID: MW-30
DATE: 10/21/2020	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH (feet to feet): 26.1 to 38.1	STATIC DEPTH TO WATER (feet): 30.25	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) - 138.1 feet - 30.25 feet x 0.163 gallons/foot = 1.28 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME + TUBING CAPACITY X TUBING LENGTH + FLOW CELL VOLUME (only fill out if applicable)				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 3.84
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TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) umhos/cm or (µmhos/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU) DRP	COLOR (describe)	ODOR (describe)
1529	1.28	1.28	-	-	6.12	14.3	146.2	6.87	281.8	clear	none
1531	1.28	2.56	-	-	6.05	14.2	150.3	6.50	286.6	clear	none
1533	1.28	3.84	-	-	6.35	15.2	144.0	5.94	290.0	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1.8" = 0.0006; 3.16" = 0.0014; 1.4" = 0.0026; 5.16" = 0.004; 3.8" = 0.006; 1.2" = 0.010; 5.8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) AFFILIATION: Emily Love / AECCM	SAMPLER(S) SIGNATURE(S): Emily R. Jove	SAMPLING INITIATED AT: 1533	SAMPLING ENDED AT: -
PUMP OR TUBING DEPTH IN WELL (feet): -	TUBING MATERIAL CODE: -	FIELD-FILTERED Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Filtration Equipment Type: 2	FILTER SIZE: - µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-30	4	AG	40ml	HCL	40ml x 4	6.35	6200	B	-
I	3	AG	40ml	HCL	40ml x 3	-	VPH	I	-
I	1	PE	250ml	HN03	250ml	-	Lead by 6010	I	-

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-31	SAMPLE ID: MW-31
DATE: 10/20/20	

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: 15 feet to 44 feet	STATIC DEPTH TO WATER (feet): 27.65	PURGE PUMP TYPE OR BAILER: <input checked="" type="checkbox"/> Bailer							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (44 feet - 27.65 feet) X 0.65 gallons/foot = 10.67 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1020	0V	0	—	27.65	6.38	19.8	178.6	4.12	—	CLEAR	—
1035	1V	11	—	31.05	6.22	18.9	164.7	3.98	—	MURKY	—
1050	2V	22	—	32.07	6.28	19.5	182.9	4.15	—	MURKY	—
1105	3V	33	—	37.62	6.80	18.9	208.6	3.10	—	CLEAR	—
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: COLEMAN MARCHION REAN				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 105		SAMPLING ENDED AT: 1115	
PUMP OR TUBING DEPTH IN WELL (feet): NA				TUBING MATERIAL CODE: NA				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ μm	
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> N (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	4	AG	40ml	HCL	40ml x 4	6.80	6200		B	—	
	3	AG	40ml	HCL	40ml x 3	6.80	VPH		B	—	
	1	PE	250ml	HN03	250ml	6.80	Lead by 6010		B	—	
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-32	SAMPLE ID: MW-32
DATE: 10/22/20	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (25.28 \text{ feet} - 15.57 \text{ feet}) \times 0.163 \text{ gallons/foot} = 1.6 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:							
PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):									
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0840	0V	0	—	15.57	8.02	16.0	330.9	5.08	—	CLEAR	NONE
0845	1V	1.5	—	16.57	6.67	16.9	160.8	5.31	—	MURKY	NONE
0850	2V	3.0	—	17.01	6.01	16.6	155.3	5.19	—	MURKY	NONE
0855	3V	4.5	—	17.62	5.75	15.6	135.8	5.34	—	MURKY	NONE
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. M. ...				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT:		SAMPLING ENDED AT:		
PUMP OR TUBING DEPTH IN WELL (feet): NA				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y <u>N</u>				TUBING Y <u>N (replaced)</u>				DUPLICATE: Y <u>N</u>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	4	AG	40ml	HCL	40ml x 4	5.95	6200		B		—	
	3	AG	40ml	HCL	40ml x 3	5.95	VPH		S		—	
	1	PE	250ml	HN03	250ml	5.15	Lead by 6010		S		—	
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

TD = 27.65

Form FD 9000-24
GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-33	SAMPLE ID: _____ DATE: _____

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): _____	WELL SCREEN INTERVAL DEPTH: _____ feet to _____ feet	STATIC DEPTH TO WATER (feet): _____	PURGE PUMP TYPE OR BAILER: _____							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (27.65 feet - 12.12 feet) X 0.163 gallons/foot = 2.5 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): _____		FINAL PUMP OR TUBING DEPTH IN WELL (feet): _____		PURGING INITIATED AT: _____		PURGING ENDED AT: _____		TOTAL VOLUME PURGED (gallons): _____			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0930	0	0	—	12.12	6.16	16.2	130.5	6.37	—	CLEAR	NONE
0935	1V	2.5	—	13.61	6.21	16.5	163.2	5.31	—	CLOUDY	NONE
0940	2U	5.0	—	14.36	6.31	16.8	143.7	5.26	—	CLOUDY	NONE
0945	3U	7.5	—	14.14	6.27	16.8	153.3	4.96	—	CLOUDY	NONE
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: _____				SAMPLER(S) SIGNATURE(S): _____				SAMPLING INITIATED AT: _____		SAMPLING ENDED AT: _____	
PUMP OR TUBING DEPTH IN WELL (feet): _____				TUBING MATERIAL CODE: _____		FIELD-FILTERED: Y N		FILTER SIZE: _____ μm			
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)		
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	4	AG	40ml	HCL	40ml x 4		6200				
	3	AG	40ml	HCL	40ml x 3		VPH				
	1	PE	250ml	HN03	250ml		Lead by 6010				
REMARKS: _____											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24
GROUNDWATER SAMPLING LOG

TD-23-15

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: <u>MW-34</u>	SAMPLE ID: <u>MW-34</u>
DATE: <u>10/22/20</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2"</u>	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= <u>123.15</u> feet - <u>9.73</u> feet X <u>0.163</u> gallons/foot = <u>2.2</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μ mhos/cm or μ S/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>6000</u>	<u>0.0</u>	<u>0</u>	<u>—</u>	<u>9.73</u>	<u>6.45</u>	<u>17.7</u>	<u>277.4</u>	<u>4.58</u>	<u>—</u>	<u>Clear</u>	<u>None</u>
<u>6005</u>	<u>0.1</u>	<u>0.1</u>	<u>—</u>	<u>11.65</u>	<u>6.49</u>	<u>12.2</u>	<u>257.2</u>	<u>5.22</u>	<u>—</u>	<u>0.3</u>	
<u>6010</u>	<u>2.0</u>	<u>2.1</u>	<u>—</u>	<u>13.12</u>	<u>6.23</u>	<u>16.3</u>	<u>199.2</u>	<u>5.43</u>	<u>—</u>		
<u>6015</u>	<u>3.0</u>	<u>5.1</u>	<u>—</u>	<u>14.07</u>	<u>6.20</u>	<u>16.1</u>	<u>188.3</u>	<u>5.36</u>	<u>—</u>		
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT:		SAMPLING ENDED AT:		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N		FILTER SIZE: _____ μ m		
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	<u>4</u>	<u>AG</u>	<u>40ml</u>	<u>HCL</u>	<u>40ml x 4</u>		<u>6200</u>					
	<u>3</u>	<u>AG</u>	<u>40ml</u>	<u>HCL</u>	<u>40ml x 3</u>		<u>VPH</u>					
	<u>1</u>	<u>PE</u>	<u>250ml</u>	<u>HN03</u>	<u>250ml</u>		<u>Lead by 6010</u>					
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

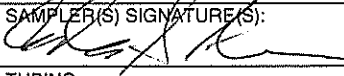
**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: <u>MW-35</u>	SAMPLE ID: <u>MW-35</u> DATE: <u>10/21/20</u>

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>40.0</u> feet - <u>25.89</u> feet) X <u>0.163</u> gallons/foot = <u>2.3</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT: <u>1030</u>	PURGING ENDED AT: <u>1055</u>	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or 1/5/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<u>1040</u>	<u>0V</u>	<u>0V</u>	<u>—</u>	<u>25.89</u>	<u>5.97</u>	<u>15.8</u>	<u>177.9</u>	<u>5.28</u>	<u>0</u>	<u>clear</u>	<u>none</u>
<u>1045</u>	<u>1V</u>	<u>2.5</u>	<u>—</u>	<u>27.07</u>	<u>6.34</u>	<u>15.4</u>	<u>173.9</u>	<u>6.07</u>	<u>—</u>	<u>cloudy</u>	<u>none</u>
<u>1050</u>	<u>2V</u>	<u>5.0</u>	<u>—</u>	<u>28.32</u>	<u>5.96</u>	<u>15.3</u>	<u>172.9</u>	<u>6.59</u>	<u>—</u>	<u>cloudy</u>	<u>none</u>
<u>1055</u>	<u>3V</u>	<u>7.0</u>	<u>—</u>	<u>30.10</u>	<u>6.07</u>	<u>16.3</u>	<u>165.0</u>	<u>5.28</u>	<u>—</u>	<u>cloudy</u>	<u>none</u>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>C. M. ASCHWIN</u>				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT: <u>1055</u>		SAMPLING ENDED AT: <u>1100</u>			
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>			FILTER SIZE: _____ µm				
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N <input type="checkbox"/>				TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>				DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
	<u>4</u>	<u>AG</u>	<u>40ml</u>	<u>HCL</u>	<u>40ml x 4</u>	<u>6.07</u>	<u>6200</u>		<u>B</u>		<u>—</u>		
	<u>3</u>	<u>AG</u>	<u>40ml</u>	<u>HCL</u>	<u>40ml x 3</u>	<u>6.07</u>	<u>VPH</u>		<u>BP</u>		<u>—</u>		
	<u>1</u>	<u>PE</u>	<u>250ml</u>	<u>HN03</u>	<u>250ml</u>	<u>6.07</u>	<u>Lead by 6010</u>		<u>BP</u>		<u>—</u>		
REMARKS:													
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)													
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)													

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: <u>MW-36</u>	SAMPLE ID: <u>MW-36</u> DATE: <u>10/21/20</u>

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>44.96</u> feet - <u>27.70</u> feet) X <u>0.163</u> gallons/foot = <u>2.81</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1140	0 ✓	0 ✓	—	27.70	6.45	16.2	187.6	6.70	Muddy	—	NONE
1145	1 ✓	~3 gal	—	28.03	5.91	16.0	180.6	6.55	—	Muddy	NONE
1150	2 ✓	~6 gal	—	28.75	6.05	15.5	179.8	5.90	—	Muddy	NONE
1155	3 ✓	~9 gal	—	29.36	6.25	16.8	185.2	5.13	—	Muddy	NONE
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>C. Vancetta</u>				SAMPLE(S) SIGNATURE(S): <u>[Signature]</u>				SAMPLING INITIATED AT: <u>1155</u>		SAMPLING ENDED AT: <u>1205</u>		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>			FILTER SIZE: _____ µm			
FIELD DECONTAMINATION: <u>A</u> PUMP Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>				TUBING Y <input checked="" type="checkbox"/> N (replaced) <input checked="" type="checkbox"/>				DUPLICATE: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	4	AG	40ml	HCL	40ml x 4	6.25	6200		B			
	3	AG	40ml	HCL	40ml x 3	6.25	VPH		B			
	1	PE	250ml	HN03	250ml	6.25	Lead by 6010		B			
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2);
optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: Mw-37	SAMPLE ID: mw-37
DATE: 10/21/20	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (38.1 feet - 27.15 feet) X 0.163 gallons/foot = 1.8 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:							
				PURGING ENDED AT:							
				TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1340	0	0	—	27.15	6.0	17.4	148.6	5.21	—	CLEAR	NONE
1345	1.0	1.0	—	28.0	5.64	16.8	140.8	5.55	—	CLEAR	NONE
1350	2.0	2.0	—	28.65	5.75	16.9	144.3	5.31	—	CLEAR	NONE
1355	3.0	3.0	—	29.41	6.30	17.6	146.9	5.43	—	CLOUDY	NONE
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT:		SAMPLING ENDED AT:		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N Filtration Equipment Type:		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	4	AG	40ml	HCL	40ml x 4	6.30	6200		S		—	
	3	AG	40ml	HCL	40ml x 3	6.30	VPH		B		—	
	1	PE	250ml	HN03	250ml	6.30	Lead by 6010		B		—	
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2);
optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020 L1 2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-38	SAMPLE ID: MW-38
DATE: 10/23/2020	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH (feet to feet): -	STATIC DEPTH TO WATER (feet): 37.69	PURGE PUMP TYPE OR BAILER: Bailer							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = 153.83 feet - 37.69 feet X 0.65 gallons/foot = 10.5 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 20.1							
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μ mhos/cm or μ S/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
0937	10.5	10.5	-	dry	6.19	15.9	204.5	4.75	255.2	Brown	None
1000	10.5	20.1	-	dry	6.27	16.2	202.1	4.85	205.0	Brown	None
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM				SAMPLER(S) SIGNATURE(S): Emily L. Love				SAMPLING INITIATED AT: 1000		SAMPLING ENDED AT: -	
PUMP OR TUBING DEPTH IN WELL (feet): -				TUBING MATERIAL CODE: -				FIELD-FILTERED: Y (N)		FILTER SIZE: - μ m	
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-38	4	AG	40ml	HCL	40ml x 4	6.27	6200		B		
I	3	AG	40ml	HCL	40ml x 3		VPH		I		
I	1	PE	250ml	HN03	250ml		Lead by 6010		I		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

- NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-40	SAMPLE ID: MW-40
DATE: 10/20/20	

PURGING DATA

WELL DIAMETER (inches): ASA	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: 27 feet to 37 feet	STATIC DEPTH TO WATER (feet): 33.23	PURGE PUMP TYPE OR BAILER: B							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (37 feet - 33.23 feet) X _____ gallons/foot = 0.62 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = _____ gallons + (_____ gallons/foot X _____ feet) + _____ gallons = _____ gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT: NA	PURGING ENDED AT: NA	TOTAL VOLUME PURGED (gallons): 1.86							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or (µS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs) ORP mV	COLOR (describe)	ODOR (describe)
10:45	0.62	0.62	NA	NA	5.14	20.2	108.7	5.63	292.3	L. Brn	None
10:50	0.62	1.24			4.93	19.4	106.1	5.59	309.2	L. Brn	None
10:53	0.62	1.86			5.00	19.7	108.7	4.84	309.1	L. Brn	None
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TD/JH AECOM				SAMPLER(S) SIGNATURE(S): 				SAMPLING INITIATED AT:		SAMPLING ENDED AT: 10:55		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	4	AG	40ml	HCL	40ml x 4		6200					
	3	AG	40ml	HCL	40ml x 3		VPH					
	1	PE	250ml	HN03	250ml		Lead by 6010					
REMARKS: PID = 0.1 ppm												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-41	SAMPLE ID: MW-41
DATE: 10/23/20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: 50 feet to 68.25 feet	STATIC DEPTH TO WATER (feet): 53.49	PURGE PUMP TYPE: OR BAILER
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (68.25 feet - 53.49 feet) X 0.163 gallons/foot = 2.41 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/l) or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1050	2.4	2.4	-		6.29	16.7	138.9	8.54	144.3	LB	None
1055	1	4.8	-		6.41	16.5	142.8	7.84	135.8	1	1
1100	1	7.2	-		5.94	17.1	144.7	6.24	157.5	1	1
10:23:20											

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. MARCHINI				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT:		SAMPLING ENDED AT:		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	4	AG	40ml	HCL	40ml x 4		6200					
	3	AG	40ml	HCL	40ml x 3		VPH					
	1	PE	250ml	HN03	250ml		Lead by 6010					
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-42	SAMPLE ID: MW-42
DATE: 10/20/20	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (53.42 feet - 38.32 feet) X 0.65 gallons/foot = 9.82 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) umhos/cm or 15/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1340	0.0	0.0	—	38.32	5.68	18.9	150.5	2.11	—	CLOUDY	NONE
1350	1.0	1.0	—	DAY	6.32	19.5	157.0	3.95	—	CLOUDY	NONE
	2.0	2.0	—								
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: COLEMAN MARTIN				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 1400		SAMPLING ENDED AT: 1915			
PUMP OR TUBING DEPTH IN WELL (feet): NA				TUBING MATERIAL CODE: NA				FIELD-FILTERED: Y (N)		FILTER SIZE: "µm"			
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)				DUPLICATE: Y (N)					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
	4	AG	40ml	HCL	40ml x 4	6.32	6200		B				
	3	AG	40ml	HCL	40ml x 3	6.32	VPH		B				
	1	PE	250ml	HN03	250ml	6.32	Lead by 6010		B				
REMARKS:													
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)													
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)													

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-43	SAMPLE ID: MW-43
DATE: 10/23/20	

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 38.50	PURGE PUMP TYPE OR BAILER: ESP							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (51.25' feet - 38.50' feet) X 0.65' gallons/foot = 8.32 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
0855	8.32	8.32	-	44.48	5.91	16.6	223.3	4.36	139.1	LB	NONE
0900	1	16	1	45.15	5.86	16.6	203.5	2.94	133.9	1	1
0905	1	28	1	45.53	5.86	16.5	234.3	3.40	134.5	1	1
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 0905		SAMPLING ENDED AT: 0905		
PUMP OR TUBING DEPTH IN WELL (feet): 45				TUBING MATERIAL CODE:				FIELD-FILTERED: Y <input checked="" type="radio"/> N		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N				TUBING Y <input checked="" type="radio"/> N (replaced)				DUPLICATE: Y <input checked="" type="radio"/> N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
MW-43	4	AG	40ml	HCL	40ml x 4		6200		ESP		-	
1	3	AG	40ml	HCL	40ml x 3		VPH		1		-	
	1	PE	250ml	HN03	250ml		Lead by 6010		1		-	
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Form FD 9000-24 GROUNDWATER SAMPLING LOG

SITE NAME: 2020112448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-44	SAMPLE ID: MW-44
DATE: 10/20/2020	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH (feet to foot): -	STATIC DEPTH TO WATER (feet): 32.7	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY				
$(35 \text{ feet} - 32.7 \text{ feet}) \times 0.65 \text{ gallons/foot} = 1.50 \text{ gallons}$				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME				
$\text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons): 2.5
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
1056	1.5	1.5	-	dry	6.99	15.7	397.2	3.64	186.9	clear	none
1445	1.0	2.5	-	dry	6.92	15.5	332.5	2.50	1.8	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): <i>Emily R. Love</i>	SAMPLING INITIATED AT: 1445	SAMPLING ENDED AT: -
PUMP OR TUBING DEPTH IN WELL (feet): -	TUBING MATERIAL CODE: -	FIELD-FILTERED: Y <input checked="" type="checkbox"/>	FILTER SIZE: - μm
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> (N)	TUBING Y <input checked="" type="checkbox"/> (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/> (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-44	4	AG	40ml	HCL	40ml x 4	6.92	6200	B	-
I	3	AG	40ml	HCL	40ml x 3	I	VPH	I	-
I	1	PE	250ml	HN03	250ml	I	Lead by 6010	I	-

REMARKS: trace product

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident		SITE LOCATION: Huntersville, NC	
WELL NO: MW-45	SAMPLE ID: MW-45	DATE: 10.20.20	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH: 10 feet to 50 feet	STATIC DEPTH TO WATER (feet): 35.45	PURGE PUMP TYPE OR BAILER: Bailer							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (50 feet - 35.45 feet) X gallons/foot = 9.5 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT: 1415	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
1425	9.5	9.5	—	42.56	6.88	19.8	229.8	4.09	126.2	Red brown	
1445	9.5	19.0	—	44.6	6.75	17.7	231.7	3.27	122.1	Red	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM			SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT: 1440		SAMPLING ENDED AT: 1440	
PUMP OR TUBING DEPTH IN WELL (feet): —			TUBING MATERIAL CODE: —			FIELD-FILTERED: Y <input checked="" type="radio"/> N <input type="radio"/>		FILTER SIZE: ___ μm	
FIELD DECONTAMINATION: PUMP Y <input type="radio"/> N <input checked="" type="radio"/>			TUBING Y <input type="radio"/> N (replaced) <input checked="" type="radio"/>			DUPLICATE: Y <input type="radio"/> N <input checked="" type="radio"/>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-45	4	AG	40ml	HCL	40ml x 4		6200	B	—
I	3	AG	40ml	HCL	40ml x 3		VPH	I	—
I	1	PE	250ml	HN03	250ml		Lead by 6010	I	—
REMARKS: Well wet dry									
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)									
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)									

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Form FD 9000-24 GROUNDWATER SAMPLING LOG

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-46	SAMPLE ID: MW-46
DATE: 10/20/20	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): NA	WELL SCREEN INTERVAL DEPTH: 10 feet to 40 feet	STATIC DEPTH TO WATER (feet): 31.87	PURGE PUMP TYPE OR BAILER: B
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				15.93 = 3WV
= (40 feet - 31.87 feet) X gallons/foot = 5.31 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): NA	FINAL PUMP OR TUBING DEPTH IN WELL (feet): NA	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons): 9.0
				15.93

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
	5.31	5.31	NA	NA	5.76	18.3	162.1	5.02	305.3	Bm	None
13:00	3.69	9.0	I	I	5.72	17.4	172.2	3.48	179.3	Bm	None
	Dry @ 9.0 gallons		I	I							

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: TD/LH AFCON				SAMPLER(S) SIGNATURE(S): <i>(Signature)</i>			SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet): NA				TUBING MATERIAL CODE: NA			FIELD-FILTERED: Y (N) Filtration Equipment Type:		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y (N) NA				TUBING Y N (replaced) NA			DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	4	AG	40ml	HCL	40ml x 4		6200		
	3	AG	40ml	HCL	40ml x 3		VPH		
	1	PE	250ml	HN03	250ml		Lead by 6010		

REMARKS:
PID = 0.0 ppm Dry @ 9 gals.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME 2020 L1-2448 Incident		SITE LOCATION Huntersville, NC	
WELL NO MW-48	SAMPLE ID MW-48 + DUP-2-20201022	DATE 10/22/20	

PURGING DATA

WELL DIAMETER (inches) 4	TUBING DIAMETER (inches)	WELL SCREEN INTERVAL DEPTH feet to 48.25 feet	STATIC DEPTH TO WATER (feet) 33.69	PURGE PUMP TYPE OR BAILER Monsoon							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) 9.5 = (48.25 feet - 33.69 feet) X 0.65 gallons/foot = 9.5 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet) 13	FINAL PUMP OR TUBING DEPTH IN WELL (feet) 13	PURGING INITIATED AT 1115	PURGING ENDED AT 1135	TOTAL VOLUME PURGED (gallons) 28.5							
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) umhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU) ORP (mV)	COLOR (describe)	ODOR (describe)
1125	9.5	9.5	0.95	37.25	6.35	15.7	163.1	5.07	153.3	Light Brown	
1130	9.5	19	1.9	39.22	6.31	15.2	175.6	5.64	173.5	Brown	Fuel
1135	9.5	28.5	1.9	40.21	6.45	16.1	196.8	4.38	220.8	Brown	Fuel
WELL CAPACITY (Gallons Per Foot) 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. de Kozlowski / AECOM			SAMPLER(S) SIGNATURE(S): Mike de Kozlowski			SAMPLING INITIATED AT 1140		SAMPLING ENDED AT 1150		
PUMP OR TUBING DEPTH IN WELL (feet): 43			TUBING MATERIAL CODE: PE			FIELD-FILTERED Y <input checked="" type="checkbox"/> N		FILTRATION EQUIPMENT TYPE: -		
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N			TUBING Y <input checked="" type="checkbox"/> (replaced)			DUPLICATE: <input checked="" type="checkbox"/> N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
MW-48	4	AG	40ml	HCL	40ml x 4	6.15	6200		ESP	1.9
	3	AG	40ml	HCL	40ml x 3		VPH		I	I
	1	PE	250ml	HN03	250ml		Lead by 6010		I	I
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-49	SAMPLE ID: MW-49
DATE: 10.20.20	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): -	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 33.67	PURGE PUMP TYPE OR BAILER: Bailer							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (55.52 feet - 33.67 feet) X 0. gallons/foot = 14.26 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: 1300	PURGING ENDED AT: 1400	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/l) or % saturation	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1320	14	14	-	25.66	6.48	18.4	291.8	5.19	123	Red brown	
1345	14	28	-	35.72	6.47	18.0	237.4	5.93	135	Red brown	
1355	14	32	-	34.64	6.48	17.2	253.5	6.32	150.8	Red brown	
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> LT 10.20.20 </div>											
<small>WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016</small>											
<small>PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)</small>											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT: 1400		SAMPLING ENDED AT: 1400	
PUMP OR TUBING DEPTH IN WELL (feet): -				TUBING MATERIAL CODE: -		FIELD-FILTERED: Y (N)		FILTER SIZE: μm			
FIELD DECONTAMINATION: PUMP Y (N)				TUBING Y (N) (replaced)				DUPLICATE: Y (N)			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
MW-49	4	AG	40ml	HCL	40ml x 4	6.48	6200		B	-	
I	3	AG	40ml	HCL	40ml x 3	I	VPH		I	-	
I	1	PE	250ml	HN03	250ml	I	Lead by 6010		I	-	
REMARKS:											
<small>MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)</small>											
<small>SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)</small>											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020 LI 2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-50	DATE: 10/20/20

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): —	WELL SCREEN INTERVAL DEPTH (feet to feet): —	STATIC DEPTH TO WATER (feet): 36.90	PURGE PUMP TYPE OR BAILER: Bailer
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY		13.58 - 36.90 feet x 0.65 gallons/foot = 13.58 gallons		
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME		40.74 gallons + (gallons/foot X feet) + gallons = 40.74 gallons		
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): —	FINAL PUMP OR TUBING DEPTH IN WELL (feet): —	PURGING INITIATED AT: —	PURGING ENDED AT: —	TOTAL VOLUME PURGED (gallons): 40.74

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	ORP TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
	13.58	13.58	—	—	6.25	16.9	192.2	2.66	173.7	Light tan	none
	13.58	27.16	—	—	6.11	16.3	187.4	2.25	173.1	lt-brown	none
	13.58	40.74	—	—	6.21	16.3	190.4	2.44	174.2	lt-brown	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1.8" = 0.0006; 3.16" = 0.0014; 1.4" = 0.0026; 5.16" = 0.004; 3.8" = 0.006; 1.2" = 0.010; 5.8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. J. Kozlowski / AECOM		SAMPLER(S) SIGNATURE(S): <i>M. J. Kozlowski</i>		SAMPLING INITIATED AT: 1415	SAMPLING ENDED AT: —
PUMP OR TUBING DEPTH IN WELL (feet): —		TUBING MATERIAL CODE: —		FIELD-FILTERED: Y <input checked="" type="checkbox"/>	FILTER SIZE: — µm
FIELD DECONTAMINATION: PUMP Y N		TUBING Y N (replaced)		DUPLICATE: Y <input checked="" type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-50	4	AG	40ml	HCL	40ml x 4	6.21	6200	B	—
MW-50	3	AG	40ml	HCL	40ml x 3	—	VPH	—	—
MW-50	1	PE	250ml	HN03	250ml	—	Lead by 6010	—	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-51	SAMPLE ID: MW-51 / DUP-1 2020 (2021) DATE: 10/21/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (48.3 feet - 37.23 feet) X 0.65 gallons/foot = 7.2 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or (rS/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0910	0V	0V	/	37.23	6.10	17.1	351.5	3.23	/		
0920	1V	~7.21	/	47.61	6.41	16.8	276.6	3.21	/		
0925	—	—	Done	e - 9 gallons							
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. MARCUM				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 0930		SAMPLING ENDED AT: 0945	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:		FIELD-FILTERED: Y N		FILTER SIZE: _____ μm			
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N DUP-1/2020/21			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	8	AG	40ml	HCL	40ml x 4	6.41	6200		B	—	
	6	AG	40ml	HCL	40ml x 3	6.41	VPH		B	—	
	2	PE	250ml	HN03	250ml	6.41	Lead by 6010		B	—	
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME 2020-L1-2448 Incident		SITE LOCATION Huntersville, NC	
WELL NO MW-52	SAMPLE ID MW-52	DATE 10/23/2020	

PURGING DATA

WELL DIAMETER (inches) A	TUBING DIAMETER (inches) 1/4	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet) 33.59	PURGE PUMP TYPE OR BAILER: Murray Pump
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				
= 1.55 feet 33.59 feet X 0.65 gallons/foot = 13.92 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)				
= gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet) 50	FINAL PUMP OR TUBING DEPTH IN WELL (feet) 50	PURGING INITIATED AT 1133	PURGING ENDED AT 1212	TOTAL VOLUME PURGED (gallons) 41.76
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TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND. (circle units) umhos/cm or (S/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
1145	13.92	13.92	1.16	39.52	6.45	15.1	203.6	1.10	673	lt. brown	none
1159	13.92	27.84	0.99	40.54	6.46	15.6	224.4	1.61	19.3	lt. brown	none
1212	13.92	41.76	1.07	40.98	6.34	16.1	220.6	1.96	23.6	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1220	SAMPLING ENDED AT: 1225
PUMP OR TUBING DEPTH IN WELL (feet) 50	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Filtration Equipment Type: <input checked="" type="checkbox"/> <input type="checkbox"/>
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>	DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-52	4	AG	40ml	HCL	40ml x 4	6.34	6200	ESP	1.07
I	3	AG	40ml	HCL	40ml x 3	I	VPH	I	I
I	1	PE	250ml	HN03	250ml	I	Lead by 6010	I	I

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-53	SAMPLE ID: MW-53
DATE: 10.22.20	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 40 feet to 60 feet	STATIC DEPTH TO WATER (feet): 25.58	PURGE PUMP TYPE OR BAILER: ESP
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (60 feet - 25.58 feet) X 0.65 gallons/foot = 22.47 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 50		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT: 0900		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
0940	22.47	22.5	—	40.62	6.90	15.8	542.7	1.46	198.4	LB	None
1045	1	45.0	—	44.90	6.15	16.0	194.5	2.74	15.5	LB	↓
1130	1	65.5	—	44.39	6.25	16.6	186.0	3.35	-20.9	LB	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Lei Tian / AECOM		SAMPLER(S) SIGNATURE(S):		SAMPLING INITIATED AT: 1130		SAMPLING ENDED AT: 1130	
PUMP OR TUBING DEPTH IN WELL (feet): 50		TUBING MATERIAL CODE:		FIELD-FILTERED: Y (N)		FILTER SIZE: ___ μm	
FIELD DECONTAMINATION: PUMP (Y) N		TUBING Y (N) (replaced)		DUPLICATE: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-53	4	AG	40ml	HCL	40ml x 4	6.25	6200	ESP	—
1	3	AG	40ml	HCL	40ml x 3	1	VPH	1	—
	1	PE	250ml	HN03	250ml	1	Lead by 6010	1	—

REMARKS: PID: 0.2 ppm

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-54	SAMPLE ID: MW-54
DATE: 10.22.20	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 25.43	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				22.57							
= (60 feet - 25.43 feet) X gallons/foot = 67.71 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 57	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 57	PURGING INITIATED AT: 12:55	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or (S/cm)	DISSOLVED OXYGEN (circle units) (mg/L or % saturation)	TURBIDITY (NTUs) ORP	COLOR (describe)	ODOR (describe)
1345	22.6	22.6	-	30.10	5.27	17.3	137.5	1.75	219.5	LB	None
1440	1	45.2	-	33.68	6.20	16.5	139.0	2.66	247.3	LB	None
1530	1	67.8	-	36.71	6.02	17.0	146.6	2.53	81.3	LB	None
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88											
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Lei Tian IAECOM</u>				SAMPLER(S) SIGNATURE(S):				SAMPLING INITIATED AT:		SAMPLING ENDED AT:			
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N		FILTER SIZE: _____ μm			
FIELD DECONTAMINATION: PUMP Y N				TUBING Y N (replaced)				DUPLICATE: Y N					
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH							
MW-54	4	AG	40ml	HCL	40ml x 4		6200						
I	3	AG	40ml	HCL	40ml x 3		VPH						
I	1	PE	250ml	HN03	250ml		Lead by 6010						
REMARKS: <u>PID: 0.3 ppm</u>													
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)													
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)													

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: <u>MW-55</u>	SAMPLE ID: <u>MW-55</u>
DATE: <u>6/23/20</u>	

PURGING DATA

WELL DIAMETER (inches): <u>4</u>	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <u>53.2</u>	PURGE PUMP TYPE OR BAILER: <u>ESP</u>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (<u>68</u> feet - <u>53.2</u> feet) X <u>0.653</u> gallons/foot = <u>9.66</u> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) <u>µmhos/cm</u> or <u>µS/cm</u>	DISSOLVED OXYGEN (circle units) <u>mg/L</u> or % saturation	TURBIDITY (NTUs) <u>ORP</u>	COLOR (describe)	ODOR (describe)
<u>1140</u>	<u>9.7</u>	<u>9.7</u>	<u>-</u>	<u>57.6</u>	<u>6.24</u>	<u>17.3</u>	<u>2270</u>	<u>0.69</u>	<u>146.8</u>	<u>LB</u>	<u>None</u>
<u>1200</u>		<u>19.4</u>	<u>-</u>	<u>63.7</u>							
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Lei Tian AECOM</u>				SAMPLER(S) SIGNATURE(S): 			SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:			FIELD-FILTERED: Y <u>N</u>		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP Y <u>N</u>				TUBING Y <u>N</u> (replaced)			DUPLICATE: Y <u>N</u>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
<u>MW-55</u>	<u>4</u>	<u>AG</u>	<u>40ml</u>	<u>HCL</u>	<u>40ml x 4</u>	<u>.</u>	<u>6200</u>		<u>ESP</u>	<u>-</u>
<u>I</u>	<u>3</u>	<u>AG</u>	<u>40ml</u>	<u>HCL</u>	<u>40ml x 3</u>		<u>VPH</u>		<u>I</u>	<u>-</u>
	<u>1</u>	<u>PE</u>	<u>250ml</u>	<u>HN03</u>	<u>250ml</u>		<u>Lead by 6010</u>		<u>I</u>	<u>-</u>
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: <i>MW-56</i>	SAMPLE ID: <i>MW-56</i> DATE: <i>10/22/20</i>

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) $= (42.48 \text{ feet} - 11.78 \text{ feet}) \times 0.65 \text{ gallons/foot} = 20.0 \text{ gallons}$											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) $= \text{gallons} + (\text{gallons/foot} \times \text{feet}) + \text{gallons} = \text{gallons}$											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):					
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<i>1440</i>	<i>0.00</i>	<i>0.00</i>	<i>1.0</i>	<i>11.78</i>	<i>5.98</i>	<i>18.1</i>	<i>182.7</i>	<i>4.74</i>	<i>—</i>	<i>Clear</i>	<i>none</i>
<i>1500</i>	<i>20.0</i>	<i>20.0</i>	<i>1.0</i>	<i>23.00</i>	<i>6.25</i>	<i>17.4</i>	<i>186.3</i>	<i>5.58</i>	<i>—</i>	<i>Clear</i>	<i>none</i>
<i>1520</i>	<i>40.0</i>	<i>60.0</i>	<i>1.0</i>	<i>33.75</i>	<i>6.05</i>	<i>15.8</i>	<i>162.0</i>	<i>5.75</i>	<i>—</i>	<i>Clear</i>	<i>none</i>
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>A. Omalik / AECO</i>				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: <i>1525</i>		SAMPLING ENDED AT: <i>1535</i>		
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N Filtration Equipment Type:		FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP <i>Y</i> N TUBING Y <i>N</i> (replaced)				DUPLICATE: Y <i>N</i>								
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	<i>4</i>	<i>AG</i>	<i>40ml</i>	<i>HCL</i>	<i>40ml x 4</i>	<i>6.05</i>	<i>6200</i>					
	<i>3</i>	<i>AG</i>	<i>40ml</i>	<i>HCL</i>	<i>40ml x 3</i>	<i>6.05</i>	<i>VPH</i>					
	<i>1</i>	<i>PE</i>	<i>250ml</i>	<i>HN03</i>	<i>250ml</i>	<i>6.05</i>	<i>Lead by 6010</i>					
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPF = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: Mw-57	SAMPLE ID: Mw-57
DATE: 10/22/20	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (47.78 feet - 1308 feet) X 0.05 gallons/foot = 22.5 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):		PURGING INITIATED AT:							
				PURGING ENDED AT:							
TOTAL VOLUME PURGED (gallons):											
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1305	0	0V	~1.25	1308	6.43	17.5	167.1	4.97	Clear	Clear	None
1320	1V	22.5	~1.25	20.87	6.38	15.6	170.9	3.90	—	Clear	None
1335	2V	45.0	~1.25	22.19	6.35	15.7	175.8	3.70	—	Clear	None
1350	3V	67.5	~1.25	24.57	6.17	15.9	171.0	4.19	—	Clear	None
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: C. Marlow				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT: 1350		SAMPLING ENDED AT: 1357	
PUMP OR TUBING DEPTH IN WELL (feet):				TUBING MATERIAL CODE:				FIELD-FILTERED: Y N		FILTER SIZE: _____ µm	
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
	4	AG	40ml	HCL	40ml x 4	6.17	6200		B		
	3	AG	40ml	HCL	40ml x 3	6.17	VPH		B		
	1	PE	250ml	HN03	250ml	6.17	Lead by 6010		B		
REMARKS:											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020 L1 2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-58	SAMPLE ID: MW-58
DATE: 10/27/2020	

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH (feet to):	STATIC DEPTH TO WATER (feet): 29.79	PURGE PUMP TYPE OR BAILER: peristaltic pump
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (52.56 feet - 29.79 feet) X 0.65 gallons/foot = 14.8 gallons				
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL = PUMP VOLUME - (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons - (gallons/foot X feet) + gallons = gallons				

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 50	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 50	PURGING INITIATED AT: 0904	PURGING ENDED AT: 1025	TOTAL VOLUME PURGED (gallons): 44.4
---	---	----------------------------	------------------------	-------------------------------------

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) μmhos/cm or (S/cm)	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU)	COLOR (describe)	ODOR (describe)
0914	14.8	14.8	1.48	43.96	7.52	15.0	166.7	6.40	172.9	brown	none
0944	14.8	29.6	0.49	47.82	5.79	15.3	79.6	5.42	155.9	clear	none
1031	14.8	44.4	0.31	47.74	5.89	15.0	87.9	6.03	83.3	clear	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Emily Love / AECOM	SAMPLER(S) SIGNATURE(S): Emily R. Love	SAMPLING INITIATED AT: 1025	SAMPLING ENDED AT: 1031
PUMP OR TUBING DEPTH IN WELL (feet): 50	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/> Filtration Equipment Type: -	FILTER SIZE: - μm
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N <input type="checkbox"/> TUBING Y <input checked="" type="checkbox"/> N (replaced) <input type="checkbox"/>		DUPLICATE: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
MW-58	4	AG	40ml	HCL	40ml x 4	5.89	6200	ESP	0.31
I	3	AG	40ml	HCL	40ml x 3	I	VPH	I	I
I	1	PE	250ml	HN03	250ml	I	Lead by 6010	I	I

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME: 2020-L1-2448 Incident	SITE LOCATION: Huntersville, NC
WELL NO: MW-59	SAMPLE ID: MW-59
DATE:	

PURGING DATA

WELL DIAMETER (inches): 4"	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (52.30 feet - 31.18 feet) X 0.65 gallons/foot = 14.4 gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable) = gallons + (gallons/foot X feet) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μ mhos/cm or μ S/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1440	0V	0	~1.5	31.18	6.09	16.8	92.0	8.03	—	V. Muddy	PE 120
1450	1V	~15	~1.5	41.20	5.83	16.3	79.2	3.83	—	CLOUDY	PE 120
1500	2V	~30	~1.5	51.30	5.46	17.5	83.9	4.96	—	CLEAR	PE 120
1515	DRY @	~30	Calc. Cont.								
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: COLEMAN MARCH...				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>				SAMPLING INITIATED AT:		SAMPLING ENDED AT:		
PUMP OR TUBING DEPTH IN WELL (feet): ~52'				TUBING MATERIAL CODE: PE				FIELD-FILTERED: Y <input checked="" type="checkbox"/> N		FILTER SIZE: _____ μ m		
FIELD DECONTAMINATION: PUMP <input checked="" type="checkbox"/> N				TUBING Y <input checked="" type="checkbox"/> N (replaced)				DUPLICATE: Y <input checked="" type="checkbox"/> N				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE		SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH						
	4	AG	40ml	HCL	40ml x 4	5.46	6200					
	3	AG	40ml	HCL	40ml x 3		VPH					
	1	PE	250ml	HN03	250ml		Lead by 6010					
REMARKS:												
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)												
SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)												

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

**Form FD 9000-24
GROUNDWATER SAMPLING LOG**

SITE NAME 2020-L1-2448 Incident		SITE LOCATION Huntersville, NC	
WELL NO MW-60	SAMPLE ID MW-60	DATE 10/20/2020	

PURGING DATA			
WELL DIAMETER (inches) 4	TUBING DIAMETER (inches) -	WELL SCREEN INTERVAL DEPTH feet to feet	STATIC DEPTH TO WATER (feet) 33.63
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY			PURGE PUMP TYPE OR BAILER Bailer
= (47 feet - 33.63 feet) X 0.65 gallons/foot = 8.69 gallons			
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME			
= gallons + (gallons/foot X feet) + gallons = gallons			

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): -	FINAL PUMP OR TUBING DEPTH IN WELL (feet): -	PURGING INITIATED AT: -	PURGING ENDED AT: -	TOTAL VOLUME PURGED (gallons) 36.07							
TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTU) ORP	COLOR (describe)	ODOR (describe)
1115	8.69	8.69	-	-	6.56	15.7	175.9	5.24	170.9	Brown	none
1119	8.69	17.38	-	-	6.45	15.6	179.4	4.71	172.6	Brown	none
1130	8.69	36.07	-	-	6.46	17.8	197.4	3.81	226.5	Brown	none

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
 PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA			
SAMPLED BY (PRINT) / AFFILIATION: M. de Kozlowski / AECOM		SAMPLER(S) SIGNATURE(S): <i>M. de Kozlowski</i>	
PUMP OR TUBING DEPTH IN WELL (feet): -		FIELD-FILTERED: Y (N) FILTER SIZE: - µm	
FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced)		DUPLICATE: Y (N)	
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME
MW-60	4	AG	40ml
MW-60	3	AG	40ml
MW-60	1	PE	250ml
		PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)
		HCL	40ml x 4
		HCL	40ml x 3
		HN03	250ml
		FINAL pH	INTENDED ANALYSIS AND/OR METHOD
		6.46	6200
			VPH
			Lead by 6010
			SAMPLING EQUIPMENT CODE
			B
			I
			SAMPLE PUMP FLOW RATE (mL per minute)
			-
			-
			-

REMARKS: trace product

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
 SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
 pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Revision Date: February 12, 2009

APPENDIX C
LABORATORY ANALYTICAL REPORTS

October 30, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92501794

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

A revised labroatory report is being submitted on 10/30/2020 to update the sample ID, per client request.

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS

Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92501794

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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: 2020-L1-2448 Incident

Pace Project No.: 92501794

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501794001	13800_HC_RD_20201022	MADEP VPH	JAH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92501794

Sample: 13800_HC_RD_20201022 **Lab ID: 92501794001** Collected: 10/22/20 11:05 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/26/20 16:44	10/26/20 16:44		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/26/20 16:44	10/26/20 16:44		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/26/20 16:44	10/26/20 16:44	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/26/20 16:44	10/26/20 16:44	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.0	%	70.0-130	1	10/26/20 16:44	10/26/20 16:44	615-59-8FID	
2,5-Dibromotoluene (PID)	85.3	%	70.0-130	1	10/26/20 16:44	10/26/20 16:44	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/23/20 01:43	10/23/20 13:30	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 16:00	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 16:00	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 16:00	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 16:00	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 16:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 16:00	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:00	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:00	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:00	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 16:00	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 16:00	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 16:00	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 16:00	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 16:00	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 16:00	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 16:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 16:00	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 16:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 16:00	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 16:00	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:00	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 16:00	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 16:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 16:00	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:00	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:00	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:00	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92501794

Sample: 13800_HC_RD_20201022	Lab ID: 92501794001	Collected: 10/22/20 11:05	Received: 10/22/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:00	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:00	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 16:00	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 16:00	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 16:00	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 16:00	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 16:00	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 16:00	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 16:00	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 16:00	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 16:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 16:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 16:00	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 16:00	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 16:00	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 16:00	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 16:00	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 16:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 16:00	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 16:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 16:00	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 16:00	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 16:00	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 16:00	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 16:00	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 16:00	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 16:00	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/23/20 16:00	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		10/23/20 16:00	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 16:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92501794

QC Batch: 1565284

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501794001

METHOD BLANK: R3585993-3

Matrix: Water

Associated Lab Samples: 92501794001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/26/20 13:48	
Aliphatic (C09-C12)	ug/L	ND	100	10/26/20 13:48	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/26/20 13:48	
Total VPH	ug/L	ND	100	10/26/20 13:48	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	10/26/20 13:48	
2,5-Dibromotoluene (PID)	%	81.8	70.0-130	10/26/20 13:48	

LABORATORY CONTROL SAMPLE & LCSD: R3585993-1 R3585993-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1130	106	94.2	70.0-130	11.7	25	
Aliphatic (C09-C12)	ug/L	1400	1530	1360	109	97.1	70.0-130	11.8	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	206	183	103	91.5	70.0-130	11.8	25	
Total VPH	ug/L	2800	3010	2670	108	95.4	70.0-130	12.0	25	
2,5-Dibromotoluene (FID)	%				87.2	86.6	70.0-130			
2,5-Dibromotoluene (PID)	%				84.7	84.1	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92501794

QC Batch: 575220	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501794001

METHOD BLANK: 3045073 Matrix: Water

Associated Lab Samples: 92501794001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/23/20 12:08	

LABORATORY CONTROL SAMPLE: 3045074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	511	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3045075 3045076

Parameter	Units	3045075		3045076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	92494482001 <4.5	500	500	496	496	99	99	75-125	0

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92501794

QC Batch: 575350	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501794001

METHOD BLANK: 3045558 Matrix: Water

Associated Lab Samples: 92501794001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
Benzene	ug/L	ND	0.50	10/23/20 11:14	
Bromobenzene	ug/L	ND	0.50	10/23/20 11:14	
Bromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromoform	ug/L	ND	0.50	10/23/20 11:14	
Bromomethane	ug/L	ND	5.0	10/23/20 11:14	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 11:14	
Chlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
Chloroethane	ug/L	ND	1.0	10/23/20 11:14	
Chloroform	ug/L	ND	0.50	10/23/20 11:14	
Chloromethane	ug/L	ND	1.0	10/23/20 11:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Dibromomethane	ug/L	ND	0.50	10/23/20 11:14	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 11:14	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 11:14	

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92501794

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501794001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 11:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 11:14	
m&p-Xylene	ug/L	ND	1.0	10/23/20 11:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 11:14	
Methylene Chloride	ug/L	ND	2.0	10/23/20 11:14	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Naphthalene	ug/L	ND	2.0	10/23/20 11:14	
o-Xylene	ug/L	ND	0.50	10/23/20 11:14	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Styrene	ug/L	ND	0.50	10/23/20 11:14	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 11:14	
Toluene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Trichloroethene	ug/L	ND	0.50	10/23/20 11:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 11:14	
Vinyl chloride	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/23/20 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/23/20 11:14	
Toluene-d8 (S)	%	101	70-130	10/23/20 11:14	

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethene	ug/L	50	53.4	107	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.8	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	54.4	109	60-140	
1,2-Dichloroethane	ug/L	50	45.3	91	60-140	
1,2-Dichloropropane	ug/L	50	51.8	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	60-140	

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92501794

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	54.6	109	60-140	
1,3-Dichloropropane	ug/L	50	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	53.8	108	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	53.9	108	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	50.0	100	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	52.8	106	60-140	
Bromomethane	ug/L	50	64.7	129	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	45.9	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.6	105	60-140	
Dichlorodifluoromethane	ug/L	50	48.4	97	60-140	
Diisopropyl ether	ug/L	50	48.9	98	60-140	
Ethylbenzene	ug/L	50	51.7	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	49.7	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	54.0	108	60-140	
Naphthalene	ug/L	50	60.6	121	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	42.6	85	60-140	
Vinyl chloride	ug/L	50	46.4	93	60-140	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92501794

Parameter	92500481001		MS	MSD	3045560		3045561		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.9	109	109	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.7	104	103	60-140	0			
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2			
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1			
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	26.4	23.1	132	115	60-140	13			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	19.9	106	99	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	26.2	23.7	131	119	60-140	10			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.6	21.6	113	108	60-140	4			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.4	23.6	122	118	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	21.3	113	107	60-140	6			
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	96	94	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.3	21.7	106	108	60-140	2			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5			
1,3-Dichlorobenzene	ug/L	ND	20	20	22.5	21.4	113	107	60-140	5			
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.3	113	107	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1			
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.9	115	110	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	21.9	21.0	109	105	60-140	4			
Benzene	ug/L	0.0031 mg/L	20	20	23.8	24.6	103	107	60-140	3			
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	60-140	5			
Bromochloromethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0			
Bromodichloromethane	ug/L	ND	20	20	20.7	20.8	103	104	60-140	1			
Bromoform	ug/L	ND	20	20	20.3	20.1	101	100	60-140	1			
Bromomethane	ug/L	ND	20	20	26.4	27.0	132	135	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	21.8	22.1	109	111	60-140	2			
Chlorobenzene	ug/L	ND	20	20	21.5	21.4	108	107	60-140	0			
Chloroethane	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2			
Chloroform	ug/L	ND	20	20	21.1	21.1	106	105	60-140	0			
Chloromethane	ug/L	ND	20	20	20.5	20.1	103	100	60-140	2			
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.7	105	104	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3			
Dibromochloromethane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2			
Dibromomethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1			
Diisopropyl ether	ug/L	0.0058 mg/L	20	20	26.5	26.5	104	103	60-140	0			
Ethylbenzene	ug/L	0.00058 mg/L	20	20	21.8	21.8	106	106	60-140	0			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	24.7	137	124	60-140	10			
Isopropylbenzene (Cumene)	ug/L	0.0045 mg/L	20	20	27.0	26.7	113	111	60-140	1			

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

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92501794

Parameter	92500481001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
m&p-Xylene	ug/L	0.0023 mg/L	40	40	45.2	45.5	107	108	60-140	1				
Methyl-tert-butyl ether	ug/L	0.0023 mg/L	20	20	22.2	22.7	99	102	60-140	2				
Methylene Chloride	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1				
n-Butylbenzene	ug/L	ND	20	20	32.7	31.2	164	156	60-140	5 M1				
n-Propylbenzene	ug/L	0.013 mg/L	20	20	35.9	34.6	115	108	60-140	4				
Naphthalene	ug/L	0.0058 mg/L	20	20	30.3	28.5	123	114	60-140	6				
o-Xylene	ug/L	ND	20	20	21.9	21.9	107	107	60-140	0				
sec-Butylbenzene	ug/L	0.0042 mg/L	20	20	28.1	27.0	119	114	60-140	4				
Styrene	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	21.8	21.7	109	108	60-140	0				
Toluene	ug/L	0.00058 mg/L	20	20	21.0	21.6	102	105	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Trichloroethene	ug/L	ND	20	20	21.5	21.4	107	107	60-140	0				
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2				
Vinyl chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2				
1,2-Dichloroethane-d4 (S)	%						104	104	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						97	99	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

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QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92501794

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident
Pace Project No.: 92501794

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501794001	13800_HC_RD_20201022	MADEPV	1565284	MADEP VPH	1565284
92501794001	13800_HC_RD_20201022	EPA 3010A	575220	EPA 6010D	575237
92501794001	13800_HC_RD_20201022	SM 6200B	575350		

REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies
 Address: Apex Companies
 Billing Information: _____

Report To: Andrew Street
 Copy To: _____
 Email To: Andrew.Street@apexcos.com

Customer Project Name/Number: 2020-L1-244 Incident
 Site Collection Info/Address: 18500 Huntersville Concord
 State: _____ County/City: _____ Time Zone Collected: _____

Phone: _____
 Email: _____
 Collected By (print): Maomi Fretz
 Quote #: _____
 Turnaround Date Required: _____
 Sample Disposal: ASAP

Rush: Same Day Next Day
 2 Day 3 Day 4 Day 5 Day
 Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
18500-116-RD-20201022	DLD	G	10-22-20	11:05				8

LAB USE

MO#: 92501794

92501794

Container: _____

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/line: _____

Lab Sample Receipt Checklist:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signatures Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VOA - Headspace Acceptable Y N NA

USDA Regulated Solids Y N NA

Samples in Holding Time Residual Chlorine Present Y N NA

Cl Strips: _____ Y N NA

Sample pH Acceptable Y N NA

pH Strips: 2.32518AV Y N NA

Sulfide Present _____ Y N NA

Lead Acetate Strips: _____ Y N NA

LAB USE ONLY: _____

Lab Sample # / Comments: 92501794 001

Lab Tracking #: 2539042

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Samples received via: FEDEX UPS Client

Courier: Pace Courier

Temp Blank Received: Y N NA

Therm ID#: 927061

Cooler 1 Temp Upon Receipt: 5.2 °C

Cooler 1 Therm Corr. Factor: 0 °C

Cooler 1 Corrected Temp: 5.2 °C

Type of Ice Used: Wet Blue Dry None

Packing Material Used: Bubble bags

Radiation sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____

Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____

Actuam: _____
 Template: _____
 Prelogin: _____
 PM: _____
 PB: _____

Table #: _____
 MTTL LAB USE ONLY

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO _____ Page: _____ of: _____



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project # **WO# : 92501794**

PM: AMB

Due Date: 10/27/20

CLIENT: 92-APEX MOOR

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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).

October 27, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92501803

Dear Andrew Street:

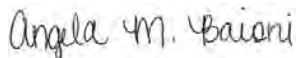
Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92501803

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92501803

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501803001	14401_HC_RD_20201022	MADEP VPH	JAH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501803

Sample: 14401_HC_RD_20201022 **Lab ID:** 92501803001 Collected: 10/22/20 14:25 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/26/20 15:38	10/26/20 15:38		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/26/20 15:38	10/26/20 15:38		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/26/20 15:38	10/26/20 15:38	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/26/20 15:38	10/26/20 15:38	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.5	%	70.0-130	1	10/26/20 15:38	10/26/20 15:38	615-59-8FID	
2,5-Dibromotoluene (PID)	84.5	%	70.0-130	1	10/26/20 15:38	10/26/20 15:38	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/23/20 01:43	10/23/20 13:33	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 16:18	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 16:18	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 16:18	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 16:18	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 16:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 16:18	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:18	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:18	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:18	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 16:18	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 16:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 16:18	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 16:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 16:18	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 16:18	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 16:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 16:18	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 16:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 16:18	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 16:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 16:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 16:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 16:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:18	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501803

Sample: 14401_HC_RD_20201022	Lab ID: 92501803001	Collected: 10/22/20 14:25	Received: 10/22/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:18	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 16:18	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 16:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 16:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 16:18	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 16:18	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 16:18	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 16:18	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 16:18	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 16:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 16:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 16:18	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 16:18	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 16:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 16:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 16:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 16:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 16:18	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 16:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 16:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 16:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 16:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 16:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 16:18	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 16:18	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 16:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/23/20 16:18	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/23/20 16:18	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 16:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501803

QC Batch: 1565284

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501803001

METHOD BLANK: R3585993-3

Matrix: Water

Associated Lab Samples: 92501803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/26/20 13:48	
Aliphatic (C09-C12)	ug/L	ND	100	10/26/20 13:48	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/26/20 13:48	
Total VPH	ug/L	ND	100	10/26/20 13:48	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	10/26/20 13:48	
2,5-Dibromotoluene (PID)	%	81.8	70.0-130	10/26/20 13:48	

LABORATORY CONTROL SAMPLE & LCSD: R3585993-1 R3585993-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1130	106	94.2	70.0-130	11.7	25	
Aliphatic (C09-C12)	ug/L	1400	1530	1360	109	97.1	70.0-130	11.8	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	206	183	103	91.5	70.0-130	11.8	25	
Total VPH	ug/L	2800	3010	2670	108	95.4	70.0-130	12.0	25	
2,5-Dibromotoluene (FID)	%				87.2	86.6	70.0-130			
2,5-Dibromotoluene (PID)	%				84.7	84.1	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501803

QC Batch: 575220	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501803001

METHOD BLANK: 3045073 Matrix: Water

Associated Lab Samples: 92501803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/23/20 12:08	

LABORATORY CONTROL SAMPLE: 3045074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	511	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3045075 3045076

Parameter	Units	92494482001		3045076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	<4.5	500	500	496	496	99	99	75-125	0

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501803

QC Batch: 575350	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501803001

METHOD BLANK: 3045558 Matrix: Water

Associated Lab Samples: 92501803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
Benzene	ug/L	ND	0.50	10/23/20 11:14	
Bromobenzene	ug/L	ND	0.50	10/23/20 11:14	
Bromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromoform	ug/L	ND	0.50	10/23/20 11:14	
Bromomethane	ug/L	ND	5.0	10/23/20 11:14	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 11:14	
Chlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
Chloroethane	ug/L	ND	1.0	10/23/20 11:14	
Chloroform	ug/L	ND	0.50	10/23/20 11:14	
Chloromethane	ug/L	ND	1.0	10/23/20 11:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Dibromomethane	ug/L	ND	0.50	10/23/20 11:14	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 11:14	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 11:14	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501803

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501803001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 11:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 11:14	
m&p-Xylene	ug/L	ND	1.0	10/23/20 11:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 11:14	
Methylene Chloride	ug/L	ND	2.0	10/23/20 11:14	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Naphthalene	ug/L	ND	2.0	10/23/20 11:14	
o-Xylene	ug/L	ND	0.50	10/23/20 11:14	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Styrene	ug/L	ND	0.50	10/23/20 11:14	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 11:14	
Toluene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Trichloroethene	ug/L	ND	0.50	10/23/20 11:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 11:14	
Vinyl chloride	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/23/20 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/23/20 11:14	
Toluene-d8 (S)	%	101	70-130	10/23/20 11:14	

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethene	ug/L	50	53.4	107	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.8	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	54.4	109	60-140	
1,2-Dichloroethane	ug/L	50	45.3	91	60-140	
1,2-Dichloropropane	ug/L	50	51.8	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501803

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	54.6	109	60-140	
1,3-Dichloropropane	ug/L	50	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	53.8	108	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	53.9	108	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	50.0	100	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	52.8	106	60-140	
Bromomethane	ug/L	50	64.7	129	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	45.9	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.6	105	60-140	
Dichlorodifluoromethane	ug/L	50	48.4	97	60-140	
Diisopropyl ether	ug/L	50	48.9	98	60-140	
Ethylbenzene	ug/L	50	51.7	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	49.7	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	54.0	108	60-140	
Naphthalene	ug/L	50	60.6	121	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	42.6	85	60-140	
Vinyl chloride	ug/L	50	46.4	93	60-140	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501803

Parameter	92500481001		MS	MSD	3045560		3045561		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.9	109	109	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.7	104	103	60-140	0			
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2			
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1			
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	26.4	23.1	132	115	60-140	13			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	19.9	106	99	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	26.2	23.7	131	119	60-140	10			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.6	21.6	113	108	60-140	4			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.4	23.6	122	118	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	21.3	113	107	60-140	6			
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	96	94	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.3	21.7	106	108	60-140	2			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5			
1,3-Dichlorobenzene	ug/L	ND	20	20	22.5	21.4	113	107	60-140	5			
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.3	113	107	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1			
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.9	115	110	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	21.9	21.0	109	105	60-140	4			
Benzene	ug/L	0.0031 mg/L	20	20	23.8	24.6	103	107	60-140	3			
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	60-140	5			
Bromochloromethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0			
Bromodichloromethane	ug/L	ND	20	20	20.7	20.8	103	104	60-140	1			
Bromoform	ug/L	ND	20	20	20.3	20.1	101	100	60-140	1			
Bromomethane	ug/L	ND	20	20	26.4	27.0	132	135	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	21.8	22.1	109	111	60-140	2			
Chlorobenzene	ug/L	ND	20	20	21.5	21.4	108	107	60-140	0			
Chloroethane	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2			
Chloroform	ug/L	ND	20	20	21.1	21.1	106	105	60-140	0			
Chloromethane	ug/L	ND	20	20	20.5	20.1	103	100	60-140	2			
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.7	105	104	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3			
Dibromochloromethane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2			
Dibromomethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1			
Diisopropyl ether	ug/L	0.0058 mg/L	20	20	26.5	26.5	104	103	60-140	0			
Ethylbenzene	ug/L	0.00058 mg/L	20	20	21.8	21.8	106	106	60-140	0			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	24.7	137	124	60-140	10			
Isopropylbenzene (Cumene)	ug/L	0.0045 mg/L	20	20	27.0	26.7	113	111	60-140	1			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501803

Parameter	92500481001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
m&p-Xylene	ug/L	0.0023 mg/L	40	40	45.2	45.5	107	108	60-140	1				
Methyl-tert-butyl ether	ug/L	0.0023 mg/L	20	20	22.2	22.7	99	102	60-140	2				
Methylene Chloride	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1				
n-Butylbenzene	ug/L	ND	20	20	32.7	31.2	164	156	60-140	5 M1				
n-Propylbenzene	ug/L	0.013 mg/L	20	20	35.9	34.6	115	108	60-140	4				
Naphthalene	ug/L	0.0058 mg/L	20	20	30.3	28.5	123	114	60-140	6				
o-Xylene	ug/L	ND	20	20	21.9	21.9	107	107	60-140	0				
sec-Butylbenzene	ug/L	0.0042 mg/L	20	20	28.1	27.0	119	114	60-140	4				
Styrene	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	21.8	21.7	109	108	60-140	0				
Toluene	ug/L	0.00058 mg/L	20	20	21.0	21.6	102	105	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Trichloroethene	ug/L	ND	20	20	21.5	21.4	107	107	60-140	0				
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2				
Vinyl chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2				
1,2-Dichloroethane-d4 (S)	%						104	104	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						97	99	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

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501803

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92501803

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501803001	14401_HC_RD_20201022	MADEPV	1565284	MADEP VPH	1565284
92501803001	14401_HC_RD_20201022	EPA 3010A	575220	EPA 6010D	575237
92501803001	14401_HC_RD_20201022	SM 6200B	575350		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies
Address: Apex Companies

Billing Information:

Report To: Andrews Street
Copy To: Andrews Street
Email To: Andrews.Street@apexcos.com
Site Collection Info/Address: 14401 Huntersville Lane Concord NC

Customer Project Name/Number: 2020-41-248 Incident
State: NC County/City: Huntersville Time Zone Collected: PT MT ET
Site/Facility ID #: Compliance Monitoring? [] Yes [] No
Purchase Order #: DW PMS ID #: DW Location Code:

Collected By (print): Naamni Fretz
Collected By (signature): Naamni Fretz
Turnaround Date Required: ASAP
Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day
Field Filtered (if applicable): [] Yes [] No
Analysis: _____

Sample Disposal: [] Return [] Dispose as appropriate [] Hold: _____
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chgs
			Date	Time	Date	Time		
14401-AL-PD-20201022	DL0	G	10-22-20	1425			8	X
								X
								X
								X
								X

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None
Packing Material Used: Bubble bags
Radchem sample(s) screened (<500 cpm): Y

Relinquished by/Company: (Signature) Naamni Fretz / Apex
Date/Time: 10-22-20 1500
Received by/Company: (Signature) 1915 P.H.S.

Relinquished by/Company: (Signature) _____
Date/Time: _____
Received by/Company: (Signature) _____

LAB USE OF
MO# : 92501803
Container # 92501803
Barcode
Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

VOCs 6200B	MADEP VPH	Lead
------------	-----------	------

SHORT HOLDS PRESENT (<72 hours): Y N N/A
Lab Tracking #: 2539046
Samples received via: FEDEX UPS Client Courier Pace Courier
Date/Time: 10-22-20 1500
MTIL LAB USE ONLY

Lab Profile/line: Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	<input checked="" type="radio"/>	NA
Custody Signatures Present	Y	<input checked="" type="radio"/>	NA
Collector Signatures Present	Y	<input checked="" type="radio"/>	NA
Bottles Intact	Y	<input checked="" type="radio"/>	NA
Correct Bottles	Y	<input checked="" type="radio"/>	NA
Sufficient Volume	Y	<input checked="" type="radio"/>	NA
Samples Received on Ice	Y	<input checked="" type="radio"/>	NA
VOA - Headspace Acceptable	Y	<input checked="" type="radio"/>	NA
USDA Regulated Soils	Y	<input checked="" type="radio"/>	NA
Samples in Holding Time	Y	<input checked="" type="radio"/>	NA
Residual Chlorine Present	Y	<input checked="" type="radio"/>	NA
CI Strips:			
Sample pH acceptable	Y	<input checked="" type="radio"/>	NA
pH Strips: 252518AV	Y	<input checked="" type="radio"/>	NA
Sulfide Present	Y	<input checked="" type="radio"/>	NA
Lead Acetate Strips:			

LAB USE ONLY:
Lab Sample # 92501803
Comments: 92501803
Temp Blank Received: Y N NA
Therm ID#: 9221061
Cooler 1 Temp Upon Receipt: 2.2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 52 oC
Trip Blank Received: Y N NA
HCL MeOH TSP Other
Non Conformance(s): YES / NO
Page: of:

October 27, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92501805

Dear Andrew Street:

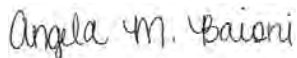
Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92501805

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92501805

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501805001	13835_AC_RD_20201022	MADEP VPH	JAH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501805

Sample: 13835_AC_RD_20201022 **Lab ID:** 92501805001 Collected: 10/22/20 13:05 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/26/20 17:17	10/26/20 17:17		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/26/20 17:17	10/26/20 17:17		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/26/20 17:17	10/26/20 17:17	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/26/20 17:17	10/26/20 17:17	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.5	%	70.0-130	1	10/26/20 17:17	10/26/20 17:17	615-59-8FID	
2,5-Dibromotoluene (PID)	85.2	%	70.0-130	1	10/26/20 17:17	10/26/20 17:17	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/23/20 01:43	10/23/20 13:36	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 16:36	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 16:36	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 16:36	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 16:36	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 16:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 16:36	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:36	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:36	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:36	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 16:36	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 16:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 16:36	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 16:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 16:36	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 16:36	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 16:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 16:36	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 16:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 16:36	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 16:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 16:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 16:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 16:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:36	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501805

Sample: 13835_AC_RD_20201022 **Lab ID: 92501805001** Collected: 10/22/20 13:05 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:36	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 16:36	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 16:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 16:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 16:36	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 16:36	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 16:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 16:36	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 16:36	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 16:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 16:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 16:36	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 16:36	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 16:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 16:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 16:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 16:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 16:36	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 16:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 16:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 16:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 16:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 16:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 16:36	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 16:36	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 16:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/23/20 16:36	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/23/20 16:36	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 16:36	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501805

QC Batch: 1565284

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501805001

METHOD BLANK: R3585993-3

Matrix: Water

Associated Lab Samples: 92501805001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/26/20 13:48	
Aliphatic (C09-C12)	ug/L	ND	100	10/26/20 13:48	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/26/20 13:48	
Total VPH	ug/L	ND	100	10/26/20 13:48	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	10/26/20 13:48	
2,5-Dibromotoluene (PID)	%	81.8	70.0-130	10/26/20 13:48	

LABORATORY CONTROL SAMPLE & LCSD: R3585993-1 R3585993-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1130	106	94.2	70.0-130	11.7	25	
Aliphatic (C09-C12)	ug/L	1400	1530	1360	109	97.1	70.0-130	11.8	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	206	183	103	91.5	70.0-130	11.8	25	
Total VPH	ug/L	2800	3010	2670	108	95.4	70.0-130	12.0	25	
2,5-Dibromotoluene (FID)	%				87.2	86.6	70.0-130			
2,5-Dibromotoluene (PID)	%				84.7	84.1	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501805

QC Batch: 575220	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501805001

METHOD BLANK: 3045073 Matrix: Water

Associated Lab Samples: 92501805001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/23/20 12:08	

LABORATORY CONTROL SAMPLE: 3045074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	511	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3045075 3045076

Parameter	Units	3045075		3045076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	92494482001 <4.5	500	500	496	496	99	99	75-125	0

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501805

QC Batch: 575350	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501805001

METHOD BLANK: 3045558 Matrix: Water

Associated Lab Samples: 92501805001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
Benzene	ug/L	ND	0.50	10/23/20 11:14	
Bromobenzene	ug/L	ND	0.50	10/23/20 11:14	
Bromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromoform	ug/L	ND	0.50	10/23/20 11:14	
Bromomethane	ug/L	ND	5.0	10/23/20 11:14	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 11:14	
Chlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
Chloroethane	ug/L	ND	1.0	10/23/20 11:14	
Chloroform	ug/L	ND	0.50	10/23/20 11:14	
Chloromethane	ug/L	ND	1.0	10/23/20 11:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Dibromomethane	ug/L	ND	0.50	10/23/20 11:14	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 11:14	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 11:14	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501805

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501805001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 11:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 11:14	
m&p-Xylene	ug/L	ND	1.0	10/23/20 11:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 11:14	
Methylene Chloride	ug/L	ND	2.0	10/23/20 11:14	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Naphthalene	ug/L	ND	2.0	10/23/20 11:14	
o-Xylene	ug/L	ND	0.50	10/23/20 11:14	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Styrene	ug/L	ND	0.50	10/23/20 11:14	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 11:14	
Toluene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Trichloroethene	ug/L	ND	0.50	10/23/20 11:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 11:14	
Vinyl chloride	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/23/20 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/23/20 11:14	
Toluene-d8 (S)	%	101	70-130	10/23/20 11:14	

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethene	ug/L	50	53.4	107	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.8	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	54.4	109	60-140	
1,2-Dichloroethane	ug/L	50	45.3	91	60-140	
1,2-Dichloropropane	ug/L	50	51.8	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501805

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	54.6	109	60-140	
1,3-Dichloropropane	ug/L	50	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	53.8	108	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	53.9	108	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	50.0	100	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	52.8	106	60-140	
Bromomethane	ug/L	50	64.7	129	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	45.9	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.6	105	60-140	
Dichlorodifluoromethane	ug/L	50	48.4	97	60-140	
Diisopropyl ether	ug/L	50	48.9	98	60-140	
Ethylbenzene	ug/L	50	51.7	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	49.7	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	54.0	108	60-140	
Naphthalene	ug/L	50	60.6	121	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	42.6	85	60-140	
Vinyl chloride	ug/L	50	46.4	93	60-140	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501805

Parameter	92500481001		MS	MSD	3045560		3045561		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.9	109	109	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.7	104	103	60-140	0			
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2			
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1			
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	26.4	23.1	132	115	60-140	13			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	19.9	106	99	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	26.2	23.7	131	119	60-140	10			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.6	21.6	113	108	60-140	4			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.4	23.6	122	118	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	21.3	113	107	60-140	6			
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	96	94	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.3	21.7	106	108	60-140	2			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5			
1,3-Dichlorobenzene	ug/L	ND	20	20	22.5	21.4	113	107	60-140	5			
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.3	113	107	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1			
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.9	115	110	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	21.9	21.0	109	105	60-140	4			
Benzene	ug/L	0.0031 mg/L	20	20	23.8	24.6	103	107	60-140	3			
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	60-140	5			
Bromochloromethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0			
Bromodichloromethane	ug/L	ND	20	20	20.7	20.8	103	104	60-140	1			
Bromoform	ug/L	ND	20	20	20.3	20.1	101	100	60-140	1			
Bromomethane	ug/L	ND	20	20	26.4	27.0	132	135	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	21.8	22.1	109	111	60-140	2			
Chlorobenzene	ug/L	ND	20	20	21.5	21.4	108	107	60-140	0			
Chloroethane	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2			
Chloroform	ug/L	ND	20	20	21.1	21.1	106	105	60-140	0			
Chloromethane	ug/L	ND	20	20	20.5	20.1	103	100	60-140	2			
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.7	105	104	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3			
Dibromochloromethane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2			
Dibromomethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1			
Diisopropyl ether	ug/L	0.0058 mg/L	20	20	26.5	26.5	104	103	60-140	0			
Ethylbenzene	ug/L	0.00058 mg/L	20	20	21.8	21.8	106	106	60-140	0			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	24.7	137	124	60-140	10			
Isopropylbenzene (Cumene)	ug/L	0.0045 mg/L	20	20	27.0	26.7	113	111	60-140	1			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501805

Parameter	92500481001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
m&p-Xylene	ug/L	0.0023 mg/L	40	40	45.2	45.5	107	108	60-140	1				
Methyl-tert-butyl ether	ug/L	0.0023 mg/L	20	20	22.2	22.7	99	102	60-140	2				
Methylene Chloride	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1				
n-Butylbenzene	ug/L	ND	20	20	32.7	31.2	164	156	60-140	5 M1				
n-Propylbenzene	ug/L	0.013 mg/L	20	20	35.9	34.6	115	108	60-140	4				
Naphthalene	ug/L	0.0058 mg/L	20	20	30.3	28.5	123	114	60-140	6				
o-Xylene	ug/L	ND	20	20	21.9	21.9	107	107	60-140	0				
sec-Butylbenzene	ug/L	0.0042 mg/L	20	20	28.1	27.0	119	114	60-140	4				
Styrene	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	21.8	21.7	109	108	60-140	0				
Toluene	ug/L	0.00058 mg/L	20	20	21.0	21.6	102	105	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Trichloroethene	ug/L	ND	20	20	21.5	21.4	107	107	60-140	0				
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2				
Vinyl chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2				
1,2-Dichloroethane-d4 (S)	%						104	104	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501805

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92501805

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501805001	13835_AC_RD_20201022	MADEPV	1565284	MADEP VPH	1565284
92501805001	13835_AC_RD_20201022	EPA 3010A	575220	EPA 6010D	575237
92501805001	13835_AC_RD_20201022	SM 6200B	575350		

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB L

W0# : 92501805

Number or

Company: **Apex Companies**
Address: _____

Billing Information:

Contact:

92501805

Project Manager:

Report To: **Andrew Street**

Email To: **Andrew.Street@paces.com**

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Copy To: _____

Site Collection Info/Address: **13835 Asbury Chapel Blvd**

Time Zone Collected: _____

Customer Project Name/Number: **2020-11-2448 Incident**

State: _____ County/City: **NC / Huntersville**

Analyses: _____

Phone: _____

Site/Facility ID #: _____

Lab Profile/Line: _____

Collected By (Print): **Maxim Letz**

Purchase Order #: _____

Lab Sample Received Checklist:

Collected By (Signature): *Maxim Letz*

Quote #: _____

Customer Seals Present/Intact: Y N NA

Sample Disposal: **ASAP**

Turnaround Date Required: _____

Custody Signatures Present: Y N NA

Matrix * **DND**

Composed of Composite (Start) Date Time

Collector Signatures Present: Y N NA

Customer Sample ID **13835-AC-ED-100201022**

Composite End Date Time

Bottles Intact: Y N NA

Matrix * **DND**

Residual Chlorine Present: Y N NA

Matrix * **DND**

Residual Chlorine Present: Y N NA

Matrix * **DND**

Residual Chlorine Present: Y N NA

Matrix * **DND**

Residual Chlorine Present: Y N NA

Matrix * **DND**

Residual Chlorine Present: Y N NA

Matrix * **DND**

Residual Chlorine Present: Y N NA

Matrix * **DND**

Residual Chlorine Present: Y N NA

Matrix * **DND**

Residual Chlorine Present: Y N NA

Custody Seals Present/Intact: Y N NA
 Custody Signatures Present: Y N NA
 Collector Signatures Present: Y N NA
 Bottles Intact: Y N NA
 Correct Bottles: Y N NA
 Sufficient Volume: Y N NA
 Samples Received on Ice: Y N NA
 VOA - Headspace, Acceptable: Y N NA
 USA Regulated Soils: Y N NA
 Samples in Holding Time: Y N NA
 Residual Chlorine Present: Y N NA
 CI Strips: Y N NA
 Sample pH Acceptable: Y N NA
 pH Strips Present: Y N NA
 Sulfide Present: Y N NA
 Lead Acetate Strips: Y N NA

Lab Profile/Line: **92801805**
 Lab Sample # / Comments: **001**
 LAB USE ONLY: _____
 Temp Blank Received: Y N NA
 Therm ID#: **921001**
 Cooler 1 Temp Upon Receipt: **5.2** °C
 Cooler 1 Temp Corr. Factor: **0** °C
 Cooler 1 Corrected Temp: **5.2** °C
 Comments: _____

Temp Blank Received: Y N NA
 Therm ID#: **921001**
 Cooler 1 Temp Upon Receipt: **5.2** °C
 Cooler 1 Temp Corr. Factor: **0** °C
 Cooler 1 Corrected Temp: **5.2** °C
 Comments: _____

Temp Blank Received: Y N NA
 Therm ID#: **921001**
 Cooler 1 Temp Upon Receipt: **5.2** °C
 Cooler 1 Temp Corr. Factor: **0** °C
 Cooler 1 Corrected Temp: **5.2** °C
 Comments: _____

Retinquinshed by/Company: (Signature) _____
 Date/Time: **10-21-20 1550**
 Received by/Company: (Signature) *12/13/2015*
 Date/Time: _____
 Received by/Company: (Signature) _____
 Date/Time: _____

SHOFT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: **2539045**
 Samples received via: **Client**
 FEDEX UPS Courier Pace Courier
 Table #: _____
 Actcrum: _____
 Template: _____
 Prelogin: _____
 PMI: _____
 PB: _____

Temp Blank Received: Y N NA
 Therm ID#: **921001**
 Cooler 1 Temp Upon Receipt: **5.2** °C
 Cooler 1 Temp Corr. Factor: **0** °C
 Cooler 1 Corrected Temp: **5.2** °C
 Comments: _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Project #

92501805

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Item#	Description	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)													
BP3U-250 mL Plastic Unpreserved (N/A)													
BP2U-500 mL Plastic Unpreserved (N/A)													
BP1U-1 liter Plastic Unpreserved (N/A)													
BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)													
BP3N-250 mL plastic HNO3 (pH < 2)													
BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)													
BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)													
WGFU-Wide-mouthed Glass jar Unpreserved													
AG1U-1 liter Amber Unpreserved (N/A) (Cl-)													
AG1H-1 liter Amber HCl (pH < 2)													
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)													
AG1S-1 liter Amber H2SO4 (pH < 2)													
AG3S-250 mL Amber H2SO4 (pH < 2)													
AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)													
DG9H-40 mL VOA HCl (N/A)		7											
VG9T-40 mL VOA Na2S2O3 (N/A)													
VG9U-40 mL VOA Unp (N/A)													
DG9P-40 mL VOA H3PO4 (N/A)													
VOAK (6 vials per kit)-5035 kit (N/A)													
V/GK (3 vials per kit)-VPH/Gas kit (N/A)													
SP5T-125 mL Sterile Plastic (N/A - lab)													
SP2T-250 mL Sterile Plastic (N/A - lab)													
BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)													
AG0U-100 mL Amber Unpreserved vials (N/A)													
VSGU-20 mL Scintillation vials (N/A)													
DG9U-40 mL Amber Unpreserved vials (N/A)													

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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.

October 30, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92501807

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92501807

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92501807

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501807001	13945_AC_RD_20201022	MADEP VPH	ACG	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501807

Sample: 13945_AC_RD_20201022 **Lab ID: 92501807001** Collected: 10/22/20 10:35 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/29/20 16:47	10/29/20 16:47		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/29/20 16:47	10/29/20 16:47		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/29/20 16:47	10/29/20 16:47	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/29/20 16:47	10/29/20 16:47	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	84.7	%	70.0-130	1	10/29/20 16:47	10/29/20 16:47	615-59-8FID	
2,5-Dibromotoluene (PID)	89.5	%	70.0-130	1	10/29/20 16:47	10/29/20 16:47	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/23/20 01:43	10/23/20 13:39	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 16:54	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 16:54	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 16:54	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 16:54	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 16:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 16:54	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:54	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:54	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 16:54	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 16:54	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 16:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 16:54	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 16:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 16:54	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 16:54	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 16:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 16:54	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 16:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 16:54	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 16:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 16:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 16:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 16:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 16:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 16:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 16:54	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501807

Sample: 13945_AC_RD_20201022 **Lab ID: 92501807001** Collected: 10/22/20 10:35 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 16:54	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 16:54	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 16:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 16:54	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 16:54	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 16:54	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 16:54	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 16:54	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 16:54	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 16:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 16:54	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 16:54	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 16:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 16:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 16:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 16:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 16:54	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 16:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 16:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 16:54	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 16:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 16:54	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 16:54	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 16:54	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 16:54	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/23/20 16:54	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/23/20 16:54	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 16:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501807

QC Batch: 1566913

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501807001

METHOD BLANK: R3587451-3

Matrix: Water

Associated Lab Samples: 92501807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/29/20 14:59	
Aliphatic (C09-C12)	ug/L	ND	100	10/29/20 14:59	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/29/20 14:59	
Total VPH	ug/L	ND	100	10/29/20 14:59	
2,5-Dibromotoluene (FID)	%	83.1	70.0-130	10/29/20 14:59	
2,5-Dibromotoluene (PID)	%	88.6	70.0-130	10/29/20 14:59	

LABORATORY CONTROL SAMPLE & LCSD: R3587451-1 R3587451-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1060	86.7	88.3	70.0-130	1.90	25	
Aliphatic (C09-C12)	ug/L	1400	1380	1400	98.6	100	70.0-130	1.44	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	216	220	108	110	70.0-130	1.83	25	
Total VPH	ug/L	2800	2640	2680	94.3	95.7	70.0-130	1.50	25	
2,5-Dibromotoluene (FID)	%				88.5	90.1	70.0-130			
2,5-Dibromotoluene (PID)	%				95.2	96.5	70.0-130			

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

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501807

QC Batch: 575220	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501807001

METHOD BLANK: 3045073 Matrix: Water

Associated Lab Samples: 92501807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/23/20 12:08	

LABORATORY CONTROL SAMPLE: 3045074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	511	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3045075 3045076

Parameter	Units	92494482001		3045076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	<4.5	500	496	496	99	99	75-125	0	

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

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501807

QC Batch: 575350	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501807001

METHOD BLANK: 3045558 Matrix: Water

Associated Lab Samples: 92501807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
Benzene	ug/L	ND	0.50	10/23/20 11:14	
Bromobenzene	ug/L	ND	0.50	10/23/20 11:14	
Bromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromoform	ug/L	ND	0.50	10/23/20 11:14	
Bromomethane	ug/L	ND	5.0	10/23/20 11:14	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 11:14	
Chlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
Chloroethane	ug/L	ND	1.0	10/23/20 11:14	
Chloroform	ug/L	ND	0.50	10/23/20 11:14	
Chloromethane	ug/L	ND	1.0	10/23/20 11:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Dibromomethane	ug/L	ND	0.50	10/23/20 11:14	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 11:14	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 11:14	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501807

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501807001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 11:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 11:14	
m&p-Xylene	ug/L	ND	1.0	10/23/20 11:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 11:14	
Methylene Chloride	ug/L	ND	2.0	10/23/20 11:14	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Naphthalene	ug/L	ND	2.0	10/23/20 11:14	
o-Xylene	ug/L	ND	0.50	10/23/20 11:14	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Styrene	ug/L	ND	0.50	10/23/20 11:14	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 11:14	
Toluene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Trichloroethene	ug/L	ND	0.50	10/23/20 11:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 11:14	
Vinyl chloride	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/23/20 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/23/20 11:14	
Toluene-d8 (S)	%	101	70-130	10/23/20 11:14	

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethene	ug/L	50	53.4	107	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.8	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	54.4	109	60-140	
1,2-Dichloroethane	ug/L	50	45.3	91	60-140	
1,2-Dichloropropane	ug/L	50	51.8	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501807

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	54.6	109	60-140	
1,3-Dichloropropane	ug/L	50	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	53.8	108	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	53.9	108	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	50.0	100	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	52.8	106	60-140	
Bromomethane	ug/L	50	64.7	129	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	45.9	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.6	105	60-140	
Dichlorodifluoromethane	ug/L	50	48.4	97	60-140	
Diisopropyl ether	ug/L	50	48.9	98	60-140	
Ethylbenzene	ug/L	50	51.7	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	49.7	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	54.0	108	60-140	
Naphthalene	ug/L	50	60.6	121	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	42.6	85	60-140	
Vinyl chloride	ug/L	50	46.4	93	60-140	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501807

Parameter	92500481001		MS	MSD	3045560		3045561		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.9	109	109	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.7	104	103	60-140	0			
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2			
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1			
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	26.4	23.1	132	115	60-140	13			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	19.9	106	99	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	26.2	23.7	131	119	60-140	10			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.6	21.6	113	108	60-140	4			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.4	23.6	122	118	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	21.3	113	107	60-140	6			
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	96	94	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.3	21.7	106	108	60-140	2			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5			
1,3-Dichlorobenzene	ug/L	ND	20	20	22.5	21.4	113	107	60-140	5			
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.3	113	107	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1			
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.9	115	110	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	21.9	21.0	109	105	60-140	4			
Benzene	ug/L	0.0031 mg/L	20	20	23.8	24.6	103	107	60-140	3			
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	60-140	5			
Bromochloromethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0			
Bromodichloromethane	ug/L	ND	20	20	20.7	20.8	103	104	60-140	1			
Bromoform	ug/L	ND	20	20	20.3	20.1	101	100	60-140	1			
Bromomethane	ug/L	ND	20	20	26.4	27.0	132	135	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	21.8	22.1	109	111	60-140	2			
Chlorobenzene	ug/L	ND	20	20	21.5	21.4	108	107	60-140	0			
Chloroethane	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2			
Chloroform	ug/L	ND	20	20	21.1	21.1	106	105	60-140	0			
Chloromethane	ug/L	ND	20	20	20.5	20.1	103	100	60-140	2			
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.7	105	104	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3			
Dibromochloromethane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2			
Dibromomethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1			
Diisopropyl ether	ug/L	0.0058 mg/L	20	20	26.5	26.5	104	103	60-140	0			
Ethylbenzene	ug/L	0.00058 mg/L	20	20	21.8	21.8	106	106	60-140	0			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	24.7	137	124	60-140	10			
Isopropylbenzene (Cumene)	ug/L	0.0045 mg/L	20	20	27.0	26.7	113	111	60-140	1			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501807

Parameter	92500481001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
m&p-Xylene	ug/L	0.0023 mg/L	40	40	45.2	45.5	107	108	60-140	1				
Methyl-tert-butyl ether	ug/L	0.0023 mg/L	20	20	22.2	22.7	99	102	60-140	2				
Methylene Chloride	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1				
n-Butylbenzene	ug/L	ND	20	20	32.7	31.2	164	156	60-140	5 M1				
n-Propylbenzene	ug/L	0.013 mg/L	20	20	35.9	34.6	115	108	60-140	4				
Naphthalene	ug/L	0.0058 mg/L	20	20	30.3	28.5	123	114	60-140	6				
o-Xylene	ug/L	ND	20	20	21.9	21.9	107	107	60-140	0				
sec-Butylbenzene	ug/L	0.0042 mg/L	20	20	28.1	27.0	119	114	60-140	4				
Styrene	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	21.8	21.7	109	108	60-140	0				
Toluene	ug/L	0.00058 mg/L	20	20	21.0	21.6	102	105	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Trichloroethene	ug/L	ND	20	20	21.5	21.4	107	107	60-140	0				
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2				
Vinyl chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2				
1,2-Dichloroethane-d4 (S)	%						104	104	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501807

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92501807

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501807001	13945_AC_RD_20201022	MADEPV	1566913	MADEP VPH	1566913
92501807001	13945_AC_RD_20201022	EPA 3010A	575220	EPA 6010D	575237
92501807001	13945_AC_RD_20201022	SM 6200B	575350		

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **Apxx Companies**
 Billing Information:

Lab # : **92501807**



Lab Tracking #: **2539040**

er Number or LY

Report To: **Andrew Steel**
 Email To: **Andrew.Steel@apx.com**
 Site Collection Info/Address: **13945 Ashbury Chapel Road**
 State: **NC** County/City: **Huntersville** Time/Zone Collected: **11 PT | 1 MT | 1 CR | 1 FT**

Customer Project Name/Number: **2020-4-2448 Incident**
 Site/Facility ID #: **NC / Huntersville**
 Phone: _____ Compliance Monitoring? Yes No
 Email: _____

Collected By (print): **Naomi Fretk**
 Purchase Order #: _____ DW PWS ID #: _____
 Quote #: _____ DW Location Code: _____
 Turnaround Date Required: _____ Immediately Packed on Ice Yes No

Sample Disposal: _____
 Return Same Day Next Day Field Filtered (if applicable) Yes No
 Archive: _____ 2 Day 3 Day 4 Day 5 Day Analysis: _____
 Hold: _____ (Expedite Charges Apply)

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res CI	# of Chms
			Date	Time	Date	Time		
13945.AC.RD.2020C1027	DW	G	10-22-20	1035				8

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used: _____
 Radchem sample(s) screened (<500 cpm): Y N N/A

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses:
 VOCs 6200 B
 MADEP VPH
 Lead

Lab Profile/line: _____
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact Y N NA
 Custody Signatures Present Y N NA
 Collector Signatures Present Y N NA
 Bottles Intact Y N NA
 Correct Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 YOA - Headspace Acceptable Y N NA
 USA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 CI Strips: Y N NA
 Sample pH Acceptable Y N NA
 pH Strips: Y N NA
 Sulfide Present Y N NA
 Lead Acetate Strips: Y N NA

LAB USE ONLY:
 Lab Sample # / Comments: **92501807**
001

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Term ID#: **925061**
 Cooler 1 Temp Upon Receipt: **5.20C**
 Cooler 1 Therm Corr. Factor: **0.0** °C
 Cooler 1 Corrected Temp: **5.2** °C
 Comments:

Relinquished by/Company: (Signature) **Naomi Fretk** / **Apxx** Date/Time: **10-22-20 1530** Received by/Company: (Signature) **BBB/PAC/FHWL**
 Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____
 Relinquished by/Company: (Signature) _____ Date/Time: _____ Received by/Company: (Signature) _____

Accnum: _____
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other _____
 Non Conformance(s): _____ Page: _____ of: _____

October 27, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92501809

Dear Andrew Street:

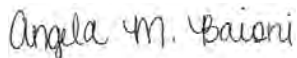
Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92501809

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident
Pace Project No.: 92501809

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501809001	13926B_HC_RD_20201022	MADEP VPH	JAH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501809

Sample: 13926B_HC_RD_20201022 **Lab ID:** 92501809001 Collected: 10/22/20 11:45 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/26/20 16:11	10/26/20 16:11		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/26/20 16:11	10/26/20 16:11		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/26/20 16:11	10/26/20 16:11	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/26/20 16:11	10/26/20 16:11	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.8	%	70.0-130	1	10/26/20 16:11	10/26/20 16:11	615-59-8FID	
2,5-Dibromotoluene (PID)	84.4	%	70.0-130	1	10/26/20 16:11	10/26/20 16:11	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/23/20 01:43	10/23/20 13:49	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 17:12	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 17:12	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 17:12	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 17:12	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 17:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 17:12	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 17:12	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 17:12	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 17:12	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 17:12	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 17:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 17:12	75-00-3	
Chloroform	8.7	ug/L	0.50	1		10/23/20 17:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 17:12	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 17:12	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 17:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 17:12	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 17:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 17:12	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 17:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 17:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 17:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 17:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 17:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 17:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 17:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 17:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 17:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 17:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 17:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 17:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 17:12	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501809

Sample: 13926B_HC_RD_20201022	Lab ID: 92501809001	Collected: 10/22/20 11:45	Received: 10/22/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 17:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 17:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 17:12	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 17:12	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 17:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 17:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 17:12	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 17:12	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 17:12	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 17:12	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 17:12	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 17:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 17:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 17:12	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 17:12	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 17:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 17:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 17:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 17:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 17:12	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 17:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 17:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 17:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 17:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 17:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 17:12	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 17:12	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 17:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/23/20 17:12	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/23/20 17:12	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/23/20 17:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501809

QC Batch: 1565284	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501809001

METHOD BLANK: R3585993-3 Matrix: Water
Associated Lab Samples: 92501809001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/26/20 13:48	
Aliphatic (C09-C12)	ug/L	ND	100	10/26/20 13:48	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/26/20 13:48	
Total VPH	ug/L	ND	100	10/26/20 13:48	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	10/26/20 13:48	
2,5-Dibromotoluene (PID)	%	81.8	70.0-130	10/26/20 13:48	

Parameter	Units	R3585993-1		R3585993-2			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Aliphatic (C05-C08)	ug/L	1200	1270	1130	106	94.2	70.0-130	11.7	25	
Aliphatic (C09-C12)	ug/L	1400	1530	1360	109	97.1	70.0-130	11.8	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	206	183	103	91.5	70.0-130	11.8	25	
Total VPH	ug/L	2800	3010	2670	108	95.4	70.0-130	12.0	25	
2,5-Dibromotoluene (FID)	%				87.2	86.6	70.0-130			
2,5-Dibromotoluene (PID)	%				84.7	84.1	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501809

QC Batch: 575220	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501809001

METHOD BLANK: 3045073 Matrix: Water

Associated Lab Samples: 92501809001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/23/20 12:08	

LABORATORY CONTROL SAMPLE: 3045074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	511	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3045075 3045076

Parameter	Units	92494482001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Lead	ug/L	<4.5	500	500	496	496	99	99	75-125	0			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501809

QC Batch: 575350	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501809001

METHOD BLANK: 3045558 Matrix: Water

Associated Lab Samples: 92501809001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
Benzene	ug/L	ND	0.50	10/23/20 11:14	
Bromobenzene	ug/L	ND	0.50	10/23/20 11:14	
Bromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromoform	ug/L	ND	0.50	10/23/20 11:14	
Bromomethane	ug/L	ND	5.0	10/23/20 11:14	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 11:14	
Chlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
Chloroethane	ug/L	ND	1.0	10/23/20 11:14	
Chloroform	ug/L	ND	0.50	10/23/20 11:14	
Chloromethane	ug/L	ND	1.0	10/23/20 11:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Dibromomethane	ug/L	ND	0.50	10/23/20 11:14	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 11:14	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 11:14	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501809

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501809001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 11:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 11:14	
m&p-Xylene	ug/L	ND	1.0	10/23/20 11:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 11:14	
Methylene Chloride	ug/L	ND	2.0	10/23/20 11:14	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Naphthalene	ug/L	ND	2.0	10/23/20 11:14	
o-Xylene	ug/L	ND	0.50	10/23/20 11:14	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Styrene	ug/L	ND	0.50	10/23/20 11:14	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 11:14	
Toluene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Trichloroethene	ug/L	ND	0.50	10/23/20 11:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 11:14	
Vinyl chloride	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/23/20 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/23/20 11:14	
Toluene-d8 (S)	%	101	70-130	10/23/20 11:14	

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethene	ug/L	50	53.4	107	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.8	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	54.4	109	60-140	
1,2-Dichloroethane	ug/L	50	45.3	91	60-140	
1,2-Dichloropropane	ug/L	50	51.8	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501809

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	54.6	109	60-140	
1,3-Dichloropropane	ug/L	50	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	53.8	108	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	53.9	108	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	50.0	100	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	52.8	106	60-140	
Bromomethane	ug/L	50	64.7	129	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	45.9	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.6	105	60-140	
Dichlorodifluoromethane	ug/L	50	48.4	97	60-140	
Diisopropyl ether	ug/L	50	48.9	98	60-140	
Ethylbenzene	ug/L	50	51.7	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	49.7	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	54.0	108	60-140	
Naphthalene	ug/L	50	60.6	121	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	42.6	85	60-140	
Vinyl chloride	ug/L	50	46.4	93	60-140	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501809

Parameter	92500481001		MS	MSD	3045560		3045561		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0		
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.9	109	109	60-140	1		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.7	104	103	60-140	0		
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2		
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0		
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1		
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	26.4	23.1	132	115	60-140	13		
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	19.9	106	99	60-140	7		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	26.2	23.7	131	119	60-140	10		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.6	21.6	113	108	60-140	4		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.4	23.6	122	118	60-140	4		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2		
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	21.3	113	107	60-140	6		
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	96	94	60-140	1		
1,2-Dichloropropane	ug/L	ND	20	20	21.3	21.7	106	108	60-140	2		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5		
1,3-Dichlorobenzene	ug/L	ND	20	20	22.5	21.4	113	107	60-140	5		
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1		
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.3	113	107	60-140	5		
2,2-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1		
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.9	115	110	60-140	4		
4-Chlorotoluene	ug/L	ND	20	20	21.9	21.0	109	105	60-140	4		
Benzene	ug/L	0.0031 mg/L	20	20	23.8	24.6	103	107	60-140	3		
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	60-140	5		
Bromochloromethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0		
Bromodichloromethane	ug/L	ND	20	20	20.7	20.8	103	104	60-140	1		
Bromoform	ug/L	ND	20	20	20.3	20.1	101	100	60-140	1		
Bromomethane	ug/L	ND	20	20	26.4	27.0	132	135	60-140	2		
Carbon tetrachloride	ug/L	ND	20	20	21.8	22.1	109	111	60-140	2		
Chlorobenzene	ug/L	ND	20	20	21.5	21.4	108	107	60-140	0		
Chloroethane	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2		
Chloroform	ug/L	ND	20	20	21.1	21.1	106	105	60-140	0		
Chloromethane	ug/L	ND	20	20	20.5	20.1	103	100	60-140	2		
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.7	105	104	60-140	1		
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3		
Dibromochloromethane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2		
Dibromomethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0		
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1		
Diisopropyl ether	ug/L	0.0058 mg/L	20	20	26.5	26.5	104	103	60-140	0		
Ethylbenzene	ug/L	0.00058 mg/L	20	20	21.8	21.8	106	106	60-140	0		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	24.7	137	124	60-140	10		
Isopropylbenzene (Cumene)	ug/L	0.0045 mg/L	20	20	27.0	26.7	113	111	60-140	1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501809

Parameter	92500481001		MS		MSD		MS		MSD		% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
m&p-Xylene	ug/L	0.0023 mg/L	40	40	45.2	45.5	107	108	60-140	1			
Methyl-tert-butyl ether	ug/L	0.0023 mg/L	20	20	22.2	22.7	99	102	60-140	2			
Methylene Chloride	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1			
n-Butylbenzene	ug/L	ND	20	20	32.7	31.2	164	156	60-140	5	M1		
n-Propylbenzene	ug/L	0.013 mg/L	20	20	35.9	34.6	115	108	60-140	4			
Naphthalene	ug/L	0.0058 mg/L	20	20	30.3	28.5	123	114	60-140	6			
o-Xylene	ug/L	ND	20	20	21.9	21.9	107	107	60-140	0			
sec-Butylbenzene	ug/L	0.0042 mg/L	20	20	28.1	27.0	119	114	60-140	4			
Styrene	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0			
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5			
Tetrachloroethene	ug/L	ND	20	20	21.8	21.7	109	108	60-140	0			
Toluene	ug/L	0.00058 mg/L	20	20	21.0	21.6	102	105	60-140	3			
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1			
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3			
Trichloroethene	ug/L	ND	20	20	21.5	21.4	107	107	60-140	0			
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2			
Vinyl chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2			
1,2-Dichloroethane-d4 (S)	%						104	104	70-130				
4-Bromofluorobenzene (S)	%						97	98	70-130				
Toluene-d8 (S)	%						97	99	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501809

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident

Pace Project No.: 92501809

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501809001	13926B_HC_RD_20201022	MADEPV	1565284	MADEP VPH	1565284
92501809001	13926B_HC_RD_20201022	EPA 3010A	575220	EPA 6010D	575237
92501809001	13926B_HC_RD_20201022	SM 6200B	575350		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **Apex Companies**
 Address: **Apex Companies**

Billing Information:

LAB USE

MO# : 92501809

member or



92501809

Report To: **Andrew Street**

Email To: **Andrew Street**

Copy To: **Andrew Street**

Site Collection Info/Address: **13926 B Huntersville**

Customer Project Name/Number: **2020 CI - 2448 Incident**

State: **NC** County/City: **Huntersville** Time Zone: **ET**

Phone: _____

Site/Facility ID #: _____ Compliance Monitoring? Yes No

Collected By (print): **Naomi Fretz**

Purchase Order #: _____ DW PWS ID #: _____ DW Location Code: _____

Collected By (signature): **Naomi Fretz**

Turnaround Date Required: _____ Immediately Packed on Ice: Yes No

Sample Disposal: Dispose as appropriate Return

Rush: Same Day Next Day 2 Day 3 Day 4 Day 5 Day

Field Filtered (if applicable) Yes No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res. Cl	# of Chgs	LAB USE	Contains	Analyses	Lab Sample Receipt Checklist:	Lab Sample # / Comments:
			Date	Time	Date	Time							
13926 B HC PO 24261627	DW	G	10-22-20	11:45				8	X	X	VOCs 6200 B MADEP VPH Lead	Custody Seals Present/Intact <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Custody Signatures Present <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Collector Signature Present <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Bottles Intact <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Correct Bottles <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Sufficient Volume <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Samples Received on Ice <input type="checkbox"/> Y <input checked="" type="checkbox"/> N VOA - Headspace Acceptable <input type="checkbox"/> Y <input checked="" type="checkbox"/> N USDA Regulated Soils <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Samples in Holding Time <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Residual Chlorine Present <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Cl Strips: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Sample pH Acceptable <input type="checkbox"/> Y <input checked="" type="checkbox"/> N PH Strips: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Sulfide Present <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Lead Acetate Strips: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	92501809 C9

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N/A

Lab Sample Temperature Info:

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Lab Tracking #: 2539041

Temp Blank Received: Y NA
 Therm ID#: 925061
 Cooler 1 Temp Upon Receipt: 52.0C
 Cooler 1 Therm Corr. Factor: 0.0C
 Cooler 1 Corrected Temp: 52.0C

Relinquished by/Company: (Signature)

Date/Time: 10-22-20 1550

Samples received via: FEDEX UPS Client Courier

Temp Blank Received: Y NA
 HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time: 10-22-20 1550

MTLL LAB USE ONLY

Temp Blank Received: Y NA
 HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time: 10-22-20 1550

MTLL LAB USE ONLY

Temp Blank Received: Y NA
 HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time: 10-22-20 1550

MTLL LAB USE ONLY

Temp Blank Received: Y NA
 HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time: 10-22-20 1550

MTLL LAB USE ONLY

Temp Blank Received: Y NA
 HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time: 10-22-20 1550

MTLL LAB USE ONLY

Temp Blank Received: Y NA
 HCL MeOH TSP Other

October 27, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92501813

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92501813

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident
Pace Project No.: 92501813

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501813001	14226_HC_RD_20201022	MADEP VPH	JAH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501813

Sample: 14226_HC_RD_20201022 **Lab ID: 92501813001** Collected: 10/22/20 13:45 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/26/20 17:51	10/26/20 17:51		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/26/20 17:51	10/26/20 17:51		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/26/20 17:51	10/26/20 17:51	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/26/20 17:51	10/26/20 17:51	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.6	%	70.0-130	1	10/26/20 17:51	10/26/20 17:51	615-59-8FID	
2,5-Dibromotoluene (PID)	85.2	%	70.0-130	1	10/26/20 17:51	10/26/20 17:51	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/23/20 01:43	10/23/20 13:52	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 17:30	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 17:30	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 17:30	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 17:30	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 17:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 17:30	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 17:30	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 17:30	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 17:30	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 17:30	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 17:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 17:30	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 17:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 17:30	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 17:30	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 17:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 17:30	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 17:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 17:30	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 17:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 17:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 17:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 17:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 17:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 17:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 17:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 17:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 17:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 17:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 17:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 17:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 17:30	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501813

Sample: 14226_HC_RD_20201022 **Lab ID:** 92501813001 Collected: 10/22/20 13:45 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 17:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 17:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 17:30	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 17:30	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 17:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 17:30	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 17:30	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 17:30	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 17:30	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 17:30	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 17:30	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 17:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 17:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 17:30	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 17:30	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 17:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 17:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 17:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 17:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 17:30	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 17:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 17:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 17:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 17:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 17:30	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 17:30	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 17:30	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 17:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/23/20 17:30	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/23/20 17:30	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/23/20 17:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501813

QC Batch: 1565284	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501813001

METHOD BLANK: R3585993-3 Matrix: Water
Associated Lab Samples: 92501813001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/26/20 13:48	
Aliphatic (C09-C12)	ug/L	ND	100	10/26/20 13:48	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/26/20 13:48	
Total VPH	ug/L	ND	100	10/26/20 13:48	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	10/26/20 13:48	
2,5-Dibromotoluene (PID)	%	81.8	70.0-130	10/26/20 13:48	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: R3585993-1 R3585993-2					% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Aliphatic (C05-C08)	ug/L	1200	1270	1130	106	94.2	70.0-130	11.7	25	
Aliphatic (C09-C12)	ug/L	1400	1530	1360	109	97.1	70.0-130	11.8	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	206	183	103	91.5	70.0-130	11.8	25	
Total VPH	ug/L	2800	3010	2670	108	95.4	70.0-130	12.0	25	
2,5-Dibromotoluene (FID)	%				87.2	86.6	70.0-130			
2,5-Dibromotoluene (PID)	%				84.7	84.1	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501813

QC Batch: 575220	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501813001

METHOD BLANK: 3045073 Matrix: Water

Associated Lab Samples: 92501813001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/23/20 12:08	

LABORATORY CONTROL SAMPLE: 3045074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	511	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3045075 3045076

Parameter	Units	92494482001		3045076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	<4.5	500	500	496	496	99	99	75-125	0

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501813

QC Batch: 575350	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501813001

METHOD BLANK: 3045558 Matrix: Water

Associated Lab Samples: 92501813001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
Benzene	ug/L	ND	0.50	10/23/20 11:14	
Bromobenzene	ug/L	ND	0.50	10/23/20 11:14	
Bromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromoform	ug/L	ND	0.50	10/23/20 11:14	
Bromomethane	ug/L	ND	5.0	10/23/20 11:14	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 11:14	
Chlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
Chloroethane	ug/L	ND	1.0	10/23/20 11:14	
Chloroform	ug/L	ND	0.50	10/23/20 11:14	
Chloromethane	ug/L	ND	1.0	10/23/20 11:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Dibromomethane	ug/L	ND	0.50	10/23/20 11:14	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 11:14	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 11:14	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501813

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501813001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 11:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 11:14	
m&p-Xylene	ug/L	ND	1.0	10/23/20 11:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 11:14	
Methylene Chloride	ug/L	ND	2.0	10/23/20 11:14	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Naphthalene	ug/L	ND	2.0	10/23/20 11:14	
o-Xylene	ug/L	ND	0.50	10/23/20 11:14	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Styrene	ug/L	ND	0.50	10/23/20 11:14	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 11:14	
Toluene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Trichloroethene	ug/L	ND	0.50	10/23/20 11:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 11:14	
Vinyl chloride	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/23/20 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/23/20 11:14	
Toluene-d8 (S)	%	101	70-130	10/23/20 11:14	

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethene	ug/L	50	53.4	107	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.8	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	54.4	109	60-140	
1,2-Dichloroethane	ug/L	50	45.3	91	60-140	
1,2-Dichloropropane	ug/L	50	51.8	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501813

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	54.6	109	60-140	
1,3-Dichloropropane	ug/L	50	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	53.8	108	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	53.9	108	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	50.0	100	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	52.8	106	60-140	
Bromomethane	ug/L	50	64.7	129	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	45.9	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.6	105	60-140	
Dichlorodifluoromethane	ug/L	50	48.4	97	60-140	
Diisopropyl ether	ug/L	50	48.9	98	60-140	
Ethylbenzene	ug/L	50	51.7	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	49.7	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	54.0	108	60-140	
Naphthalene	ug/L	50	60.6	121	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	42.6	85	60-140	
Vinyl chloride	ug/L	50	46.4	93	60-140	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501813

Parameter	92500481001		MS	MSD	3045560		3045561		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0		
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.9	109	109	60-140	1		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.7	104	103	60-140	0		
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2		
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0		
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1		
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	26.4	23.1	132	115	60-140	13		
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	19.9	106	99	60-140	7		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	26.2	23.7	131	119	60-140	10		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.6	21.6	113	108	60-140	4		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.4	23.6	122	118	60-140	4		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2		
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	21.3	113	107	60-140	6		
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	96	94	60-140	1		
1,2-Dichloropropane	ug/L	ND	20	20	21.3	21.7	106	108	60-140	2		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5		
1,3-Dichlorobenzene	ug/L	ND	20	20	22.5	21.4	113	107	60-140	5		
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1		
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.3	113	107	60-140	5		
2,2-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1		
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.9	115	110	60-140	4		
4-Chlorotoluene	ug/L	ND	20	20	21.9	21.0	109	105	60-140	4		
Benzene	ug/L	0.0031 mg/L	20	20	23.8	24.6	103	107	60-140	3		
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	60-140	5		
Bromochloromethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0		
Bromodichloromethane	ug/L	ND	20	20	20.7	20.8	103	104	60-140	1		
Bromoform	ug/L	ND	20	20	20.3	20.1	101	100	60-140	1		
Bromomethane	ug/L	ND	20	20	26.4	27.0	132	135	60-140	2		
Carbon tetrachloride	ug/L	ND	20	20	21.8	22.1	109	111	60-140	2		
Chlorobenzene	ug/L	ND	20	20	21.5	21.4	108	107	60-140	0		
Chloroethane	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2		
Chloroform	ug/L	ND	20	20	21.1	21.1	106	105	60-140	0		
Chloromethane	ug/L	ND	20	20	20.5	20.1	103	100	60-140	2		
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.7	105	104	60-140	1		
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3		
Dibromochloromethane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2		
Dibromomethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0		
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1		
Diisopropyl ether	ug/L	0.0058 mg/L	20	20	26.5	26.5	104	103	60-140	0		
Ethylbenzene	ug/L	0.00058 mg/L	20	20	21.8	21.8	106	106	60-140	0		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	24.7	137	124	60-140	10		
Isopropylbenzene (Cumene)	ug/L	0.0045 mg/L	20	20	27.0	26.7	113	111	60-140	1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501813

Parameter	92500481001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
m&p-Xylene	ug/L	0.0023 mg/L	40	40	45.2	45.5	107	108	60-140	1				
Methyl-tert-butyl ether	ug/L	0.0023 mg/L	20	20	22.2	22.7	99	102	60-140	2				
Methylene Chloride	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1				
n-Butylbenzene	ug/L	ND	20	20	32.7	31.2	164	156	60-140	5	M1			
n-Propylbenzene	ug/L	0.013 mg/L	20	20	35.9	34.6	115	108	60-140	4				
Naphthalene	ug/L	0.0058 mg/L	20	20	30.3	28.5	123	114	60-140	6				
o-Xylene	ug/L	ND	20	20	21.9	21.9	107	107	60-140	0				
sec-Butylbenzene	ug/L	0.0042 mg/L	20	20	28.1	27.0	119	114	60-140	4				
Styrene	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	21.8	21.7	109	108	60-140	0				
Toluene	ug/L	0.00058 mg/L	20	20	21.0	21.6	102	105	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Trichloroethene	ug/L	ND	20	20	21.5	21.4	107	107	60-140	0				
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2				
Vinyl chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2				
1,2-Dichloroethane-d4 (S)	%						104	104	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501813

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92501813

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501813001	14226_HC_RD_20201022	MADEPV	1565284	MADEP VPH	1565284
92501813001	14226_HC_RD_20201022	EPA 3010A	575220	EPA 6010D	575237
92501813001	14226_HC_RD_20201022	SM 6200B	575350		

REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB U

MO#: 92501813

Number or

Company: Apex Companies

Billing Information:

Conta

92501813

Report To: Andrew Street

Email To: Andrew.Street@apexcos.com

Copy To:

Site Collection Info/Address: 14226 Huntersville Concord Rd

Customer Project Name/Number: 2020-11-2448 Incident

State: NC County/City: Huntersville Time Zone Collected: ET

Phone: _____ Site/Facility ID #:

Compliance Monitoring? Yes No

Collected By (Print): Naomi Fetz

DW PWS ID #: _____ DW Location Code: _____

Collected By (Signature): Naomi Fetz

Immediately Packed on Ice: Yes No

Sample Disposal: Return Dispose as appropriate

Field Filtered (if applicable) Yes No

Archive: Hold: _____

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SI), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID

Matrix *

Comp / Grab

Collected (or Composite Start) Date Time

Composite End Date Time

Res Cl # of Ctns

14226-NC-20201813

DW

G

10-22-20 1345

8

X X X

VOCS 6200B
MADEP VPH
Lead

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Mel Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N / N/A

Lab Sample Temperature Info: Temp Blank Received: Y N NA

Relinquished by/Company: (Signature)

Date/Time: 10-22-20 1555

Received by/Company: (Signature) 1515 Apex

Samples received via: Client

Lab Tracking #: 25339044

Therm ID#: 921061
Cooler 1 Temp Upon Receipt: 52 OC
Cooler 1 Therm Corr. Factor: 0 OC
Cooler 1 Corrected Temp: 52 OC

Relinquished by/Company: (Signature)

Date/Time: _____

Received by/Company: (Signature)

FEDEX UPS

Table #: _____
Courier: MTLL LAB USE ONLY

Actnum: _____
Template: _____
Prelogin: _____
PM: _____
PB: _____

Relinquished by/Company: (Signature)

Date/Time: _____

Received by/Company: (Signature)

Date/Time: _____

Non Conformance(s): _____
YES / NO

Page: _____ of: _____

October 27, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92501814

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92501814

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92501814

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501814001	14015_AC_RD_20201022	MADEP VPH	JAH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501814

Sample: 14015_AC_RD_20201022 **Lab ID:** 92501814001 Collected: 10/22/20 10:05 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/26/20 18:24	10/26/20 18:24		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/26/20 18:24	10/26/20 18:24		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/26/20 18:24	10/26/20 18:24	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/26/20 18:24	10/26/20 18:24	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.3	%	70.0-130	1	10/26/20 18:24	10/26/20 18:24	615-59-8FID	
2,5-Dibromotoluene (PID)	83.4	%	70.0-130	1	10/26/20 18:24	10/26/20 18:24	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/23/20 01:43	10/23/20 13:55	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 17:48	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 17:48	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 17:48	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 17:48	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 17:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 17:48	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 17:48	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 17:48	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 17:48	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 17:48	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 17:48	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 17:48	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 17:48	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 17:48	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 17:48	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 17:48	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 17:48	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 17:48	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 17:48	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 17:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 17:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 17:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 17:48	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 17:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 17:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 17:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 17:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 17:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 17:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 17:48	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 17:48	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 17:48	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501814

Sample: 14015_AC_RD_20201022 **Lab ID: 92501814001** Collected: 10/22/20 10:05 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 17:48	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 17:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 17:48	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 17:48	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 17:48	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 17:48	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 17:48	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 17:48	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 17:48	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 17:48	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 17:48	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 17:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 17:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 17:48	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 17:48	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 17:48	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 17:48	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 17:48	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 17:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 17:48	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 17:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 17:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 17:48	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 17:48	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 17:48	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 17:48	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 17:48	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 17:48	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/23/20 17:48	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/23/20 17:48	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 17:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501814

QC Batch: 1565284

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501814001

METHOD BLANK: R3585993-3

Matrix: Water

Associated Lab Samples: 92501814001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/26/20 13:48	
Aliphatic (C09-C12)	ug/L	ND	100	10/26/20 13:48	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/26/20 13:48	
Total VPH	ug/L	ND	100	10/26/20 13:48	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	10/26/20 13:48	
2,5-Dibromotoluene (PID)	%	81.8	70.0-130	10/26/20 13:48	

LABORATORY CONTROL SAMPLE & LCSD: R3585993-1

R3585993-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1130	106	94.2	70.0-130	11.7	25	
Aliphatic (C09-C12)	ug/L	1400	1530	1360	109	97.1	70.0-130	11.8	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	206	183	103	91.5	70.0-130	11.8	25	
Total VPH	ug/L	2800	3010	2670	108	95.4	70.0-130	12.0	25	
2,5-Dibromotoluene (FID)	%				87.2	86.6	70.0-130			
2,5-Dibromotoluene (PID)	%				84.7	84.1	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501814

QC Batch: 575220	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501814001

METHOD BLANK: 3045073 Matrix: Water
Associated Lab Samples: 92501814001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/23/20 12:08	

LABORATORY CONTROL SAMPLE: 3045074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	511	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3045075 3045076

Parameter	Units	92494482001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Lead	ug/L	<4.5	500	500	496	496	99	99	75-125	0			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501814

QC Batch: 575350	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501814001

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501814001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
Benzene	ug/L	ND	0.50	10/23/20 11:14	
Bromobenzene	ug/L	ND	0.50	10/23/20 11:14	
Bromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromoform	ug/L	ND	0.50	10/23/20 11:14	
Bromomethane	ug/L	ND	5.0	10/23/20 11:14	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 11:14	
Chlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
Chloroethane	ug/L	ND	1.0	10/23/20 11:14	
Chloroform	ug/L	ND	0.50	10/23/20 11:14	
Chloromethane	ug/L	ND	1.0	10/23/20 11:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Dibromomethane	ug/L	ND	0.50	10/23/20 11:14	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 11:14	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 11:14	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501814

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501814001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 11:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 11:14	
m&p-Xylene	ug/L	ND	1.0	10/23/20 11:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 11:14	
Methylene Chloride	ug/L	ND	2.0	10/23/20 11:14	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Naphthalene	ug/L	ND	2.0	10/23/20 11:14	
o-Xylene	ug/L	ND	0.50	10/23/20 11:14	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Styrene	ug/L	ND	0.50	10/23/20 11:14	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 11:14	
Toluene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Trichloroethene	ug/L	ND	0.50	10/23/20 11:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 11:14	
Vinyl chloride	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/23/20 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/23/20 11:14	
Toluene-d8 (S)	%	101	70-130	10/23/20 11:14	

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethene	ug/L	50	53.4	107	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.8	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	54.4	109	60-140	
1,2-Dichloroethane	ug/L	50	45.3	91	60-140	
1,2-Dichloropropane	ug/L	50	51.8	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501814

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	54.6	109	60-140	
1,3-Dichloropropane	ug/L	50	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	53.8	108	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	53.9	108	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	50.0	100	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	52.8	106	60-140	
Bromomethane	ug/L	50	64.7	129	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	45.9	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.6	105	60-140	
Dichlorodifluoromethane	ug/L	50	48.4	97	60-140	
Diisopropyl ether	ug/L	50	48.9	98	60-140	
Ethylbenzene	ug/L	50	51.7	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	49.7	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	54.0	108	60-140	
Naphthalene	ug/L	50	60.6	121	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	42.6	85	60-140	
Vinyl chloride	ug/L	50	46.4	93	60-140	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501814

Parameter	92500481001		MS	MSD	3045560		3045561		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.9	109	109	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.7	104	103	60-140	0			
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2			
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1			
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	26.4	23.1	132	115	60-140	13			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	19.9	106	99	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	26.2	23.7	131	119	60-140	10			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.6	21.6	113	108	60-140	4			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.4	23.6	122	118	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	21.3	113	107	60-140	6			
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	96	94	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.3	21.7	106	108	60-140	2			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5			
1,3-Dichlorobenzene	ug/L	ND	20	20	22.5	21.4	113	107	60-140	5			
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.3	113	107	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1			
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.9	115	110	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	21.9	21.0	109	105	60-140	4			
Benzene	ug/L	0.0031 mg/L	20	20	23.8	24.6	103	107	60-140	3			
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	60-140	5			
Bromochloromethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0			
Bromodichloromethane	ug/L	ND	20	20	20.7	20.8	103	104	60-140	1			
Bromoform	ug/L	ND	20	20	20.3	20.1	101	100	60-140	1			
Bromomethane	ug/L	ND	20	20	26.4	27.0	132	135	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	21.8	22.1	109	111	60-140	2			
Chlorobenzene	ug/L	ND	20	20	21.5	21.4	108	107	60-140	0			
Chloroethane	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2			
Chloroform	ug/L	ND	20	20	21.1	21.1	106	105	60-140	0			
Chloromethane	ug/L	ND	20	20	20.5	20.1	103	100	60-140	2			
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.7	105	104	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3			
Dibromochloromethane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2			
Dibromomethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1			
Diisopropyl ether	ug/L	0.0058 mg/L	20	20	26.5	26.5	104	103	60-140	0			
Ethylbenzene	ug/L	0.00058 mg/L	20	20	21.8	21.8	106	106	60-140	0			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	24.7	137	124	60-140	10			
Isopropylbenzene (Cumene)	ug/L	0.0045 mg/L	20	20	27.0	26.7	113	111	60-140	1			

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

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501814

Parameter	92500481001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
m&p-Xylene	ug/L	0.0023 mg/L	40	40	45.2	45.5	107	108	60-140	1				
Methyl-tert-butyl ether	ug/L	0.0023 mg/L	20	20	22.2	22.7	99	102	60-140	2				
Methylene Chloride	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1				
n-Butylbenzene	ug/L	ND	20	20	32.7	31.2	164	156	60-140	5	M1			
n-Propylbenzene	ug/L	0.013 mg/L	20	20	35.9	34.6	115	108	60-140	4				
Naphthalene	ug/L	0.0058 mg/L	20	20	30.3	28.5	123	114	60-140	6				
o-Xylene	ug/L	ND	20	20	21.9	21.9	107	107	60-140	0				
sec-Butylbenzene	ug/L	0.0042 mg/L	20	20	28.1	27.0	119	114	60-140	4				
Styrene	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	21.8	21.7	109	108	60-140	0				
Toluene	ug/L	0.00058 mg/L	20	20	21.0	21.6	102	105	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Trichloroethene	ug/L	ND	20	20	21.5	21.4	107	107	60-140	0				
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2				
Vinyl chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2				
1,2-Dichloroethane-d4 (S)	%						104	104	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501814

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92501814

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501814001	14015_AC_RD_20201022	MADEPV	1565284	MADEP VPH	1565284
92501814001	14015_AC_RD_20201022	EPA 3010A	575220	EPA 6010D	575237
92501814001	14015_AC_RD_20201022	SM 6200B	575350		

REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Billing Information:

Address:

Container Pl



92501814

Project Manager:

LAB USE ON

MO# : 92501814

ier or

Report To: Andrew Stewart

Email To: Andrew.Stewart@apexcos.com

Copy To:

Site Collection Info/Address: 19015 Ashbury Chapel Road

Customer Project Name/Number: 2020-L1-2498 Incident

State: NC | Hendersville | Time Zone Collected: | 1 PT | 1 MT | 1 DT | 1 ET

Phone:

Site/Facility ID #:

Collected By (print):

Purchase Order #:

Collected By (signature):

Quote #:

Turnaround Date Required:

DW PWS ID #:

Sample Disposal:

Immediately Packaged on Ice

Same Day Next Day

Field Filtered (if applicable):

Archive: 2 Day 3 Day 4 Day 5 Day

Analysis:

Hold:

(Expedite Charges Apply)

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID

Matrix *

Comp / Grab

Collected (or Composite Start) Date Time

Composite End Date Time

Res Cl # of Cms

Res

Cl

of Cms

X X X

Lab Tracking #

2539039

SHO RT HOLD S PRESENT (<72 hours):

Y (N) N/A

Temp Blank Received: Y (N) NA

Therm ID#: 971061

Cooler 1 Temp Upon Receipt: 52 oC

Cooler 1 Therm Corr. Factor: oc

Cooler 1 Corrected Temp: 52 oc

Comments:

Temp Blank Received: Y (N) NA

Therm ID#: 971061

Cooler 1 Temp Upon Receipt: 52 oC

Cooler 1 Therm Corr. Factor: oc

Cooler 1 Corrected Temp: 52 oc

Comments:

Temp Blank Received: Y (N) NA

Therm ID#: 971061

Cooler 1 Temp Upon Receipt: 52 oC

Cooler 1 Therm Corr. Factor: oc

Cooler 1 Corrected Temp: 52 oc

Comments:

Temp Blank Received: Y (N) NA

Therm ID#: 971061

Cooler 1 Temp Upon Receipt: 52 oC

Cooler 1 Therm Corr. Factor: oc

Cooler 1 Corrected Temp: 52 oc

Comments:

Temp Blank Received: Y (N) NA

Therm ID#: 971061

Cooler 1 Temp Upon Receipt: 52 oC

Cooler 1 Therm Corr. Factor: oc

Cooler 1 Corrected Temp: 52 oc

Comments:

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA

Therm ID#: 971061

Cooler 1 Temp Upon Receipt: 52 oC

Cooler 1 Therm Corr. Factor: oc

Cooler 1 Corrected Temp: 52 oc

Comments:

Temp Blank Received: Y (N) NA

Therm ID#: 971061

Cooler 1 Temp Upon Receipt: 52 oC

Cooler 1 Therm Corr. Factor: oc

Cooler 1 Corrected Temp: 52 oc

Comments:

October 27, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92501815

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92501815

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident
Pace Project No.: 92501815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501815001	13926A_HC_RD_20201022	MADEP VPH	JAH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501815

Sample: 13926A_HC_RD_20201022 **Lab ID:** 92501815001 Collected: 10/22/20 12:15 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/26/20 15:05	10/26/20 15:05		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/26/20 15:05	10/26/20 15:05		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/26/20 15:05	10/26/20 15:05	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/26/20 15:05	10/26/20 15:05	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.2	%	70.0-130	1	10/26/20 15:05	10/26/20 15:05	615-59-8FID	
2,5-Dibromotoluene (PID)	81.4	%	70.0-130	1	10/26/20 15:05	10/26/20 15:05	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	5.2	ug/L	5.0	1	10/23/20 01:43	10/23/20 13:59	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 18:06	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 18:06	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 18:06	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 18:06	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 18:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 18:06	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 18:06	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 18:06	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 18:06	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 18:06	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 18:06	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 18:06	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 18:06	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 18:06	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 18:06	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 18:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 18:06	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 18:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 18:06	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 18:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 18:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 18:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 18:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 18:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 18:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 18:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 18:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 18:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 18:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 18:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 18:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 18:06	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501815

Sample: 13926A_HC_RD_20201022 **Lab ID:** 92501815001 Collected: 10/22/20 12:15 Received: 10/22/20 15:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 18:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 18:06	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 18:06	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 18:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 18:06	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 18:06	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 18:06	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 18:06	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 18:06	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 18:06	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 18:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 18:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 18:06	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 18:06	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 18:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 18:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 18:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 18:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 18:06	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 18:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 18:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 18:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 18:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 18:06	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 18:06	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 18:06	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 18:06	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/23/20 18:06	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/23/20 18:06	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 18:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501815

QC Batch: 1565284	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501815001

METHOD BLANK: R3585993-3 Matrix: Water

Associated Lab Samples: 92501815001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/26/20 13:48	
Aliphatic (C09-C12)	ug/L	ND	100	10/26/20 13:48	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/26/20 13:48	
Total VPH	ug/L	ND	100	10/26/20 13:48	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	10/26/20 13:48	
2,5-Dibromotoluene (PID)	%	81.8	70.0-130	10/26/20 13:48	

LABORATORY CONTROL SAMPLE & LCSD: R3585993-1 R3585993-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1130	106	94.2	70.0-130	11.7	25	
Aliphatic (C09-C12)	ug/L	1400	1530	1360	109	97.1	70.0-130	11.8	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	206	183	103	91.5	70.0-130	11.8	25	
Total VPH	ug/L	2800	3010	2670	108	95.4	70.0-130	12.0	25	
2,5-Dibromotoluene (FID)	%				87.2	86.6	70.0-130			
2,5-Dibromotoluene (PID)	%				84.7	84.1	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501815

QC Batch: 575220	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501815001

METHOD BLANK: 3045073 Matrix: Water

Associated Lab Samples: 92501815001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/23/20 12:08	

LABORATORY CONTROL SAMPLE: 3045074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	511	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3045075 3045076

Parameter	Units	92494482001		3045076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	<4.5	500	500	496	496	99	99	75-125	0

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501815

QC Batch: 575350 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501815001

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501815001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
Benzene	ug/L	ND	0.50	10/23/20 11:14	
Bromobenzene	ug/L	ND	0.50	10/23/20 11:14	
Bromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromoform	ug/L	ND	0.50	10/23/20 11:14	
Bromomethane	ug/L	ND	5.0	10/23/20 11:14	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 11:14	
Chlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
Chloroethane	ug/L	ND	1.0	10/23/20 11:14	
Chloroform	ug/L	ND	0.50	10/23/20 11:14	
Chloromethane	ug/L	ND	1.0	10/23/20 11:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Dibromomethane	ug/L	ND	0.50	10/23/20 11:14	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 11:14	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 11:14	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501815

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501815001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 11:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 11:14	
m&p-Xylene	ug/L	ND	1.0	10/23/20 11:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 11:14	
Methylene Chloride	ug/L	ND	2.0	10/23/20 11:14	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Naphthalene	ug/L	ND	2.0	10/23/20 11:14	
o-Xylene	ug/L	ND	0.50	10/23/20 11:14	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Styrene	ug/L	ND	0.50	10/23/20 11:14	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 11:14	
Toluene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Trichloroethene	ug/L	ND	0.50	10/23/20 11:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 11:14	
Vinyl chloride	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/23/20 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/23/20 11:14	
Toluene-d8 (S)	%	101	70-130	10/23/20 11:14	

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethene	ug/L	50	53.4	107	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.8	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	54.4	109	60-140	
1,2-Dichloroethane	ug/L	50	45.3	91	60-140	
1,2-Dichloropropane	ug/L	50	51.8	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501815

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	54.6	109	60-140	
1,3-Dichloropropane	ug/L	50	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	53.8	108	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	53.9	108	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	50.0	100	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	52.8	106	60-140	
Bromomethane	ug/L	50	64.7	129	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	45.9	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.6	105	60-140	
Dichlorodifluoromethane	ug/L	50	48.4	97	60-140	
Diisopropyl ether	ug/L	50	48.9	98	60-140	
Ethylbenzene	ug/L	50	51.7	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	49.7	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	54.0	108	60-140	
Naphthalene	ug/L	50	60.6	121	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	42.6	85	60-140	
Vinyl chloride	ug/L	50	46.4	93	60-140	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501815

Parameter	92500481001		MS	MSD	3045560		3045561		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0		
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.9	109	109	60-140	1		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.7	104	103	60-140	0		
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2		
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0		
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1		
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	26.4	23.1	132	115	60-140	13		
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	19.9	106	99	60-140	7		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	26.2	23.7	131	119	60-140	10		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.6	21.6	113	108	60-140	4		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.4	23.6	122	118	60-140	4		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2		
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	21.3	113	107	60-140	6		
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	96	94	60-140	1		
1,2-Dichloropropane	ug/L	ND	20	20	21.3	21.7	106	108	60-140	2		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5		
1,3-Dichlorobenzene	ug/L	ND	20	20	22.5	21.4	113	107	60-140	5		
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1		
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.3	113	107	60-140	5		
2,2-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1		
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.9	115	110	60-140	4		
4-Chlorotoluene	ug/L	ND	20	20	21.9	21.0	109	105	60-140	4		
Benzene	ug/L	0.0031 mg/L	20	20	23.8	24.6	103	107	60-140	3		
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	60-140	5		
Bromochloromethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0		
Bromodichloromethane	ug/L	ND	20	20	20.7	20.8	103	104	60-140	1		
Bromoform	ug/L	ND	20	20	20.3	20.1	101	100	60-140	1		
Bromomethane	ug/L	ND	20	20	26.4	27.0	132	135	60-140	2		
Carbon tetrachloride	ug/L	ND	20	20	21.8	22.1	109	111	60-140	2		
Chlorobenzene	ug/L	ND	20	20	21.5	21.4	108	107	60-140	0		
Chloroethane	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2		
Chloroform	ug/L	ND	20	20	21.1	21.1	106	105	60-140	0		
Chloromethane	ug/L	ND	20	20	20.5	20.1	103	100	60-140	2		
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.7	105	104	60-140	1		
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3		
Dibromochloromethane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2		
Dibromomethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0		
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1		
Diisopropyl ether	ug/L	0.0058 mg/L	20	20	26.5	26.5	104	103	60-140	0		
Ethylbenzene	ug/L	0.00058 mg/L	20	20	21.8	21.8	106	106	60-140	0		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	24.7	137	124	60-140	10		
Isopropylbenzene (Cumene)	ug/L	0.0045 mg/L	20	20	27.0	26.7	113	111	60-140	1		

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501815

Parameter	92500481001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
m&p-Xylene	ug/L	0.0023 mg/L	40	40	45.2	45.5	107	108	60-140	1				
Methyl-tert-butyl ether	ug/L	0.0023 mg/L	20	20	22.2	22.7	99	102	60-140	2				
Methylene Chloride	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1				
n-Butylbenzene	ug/L	ND	20	20	32.7	31.2	164	156	60-140	5	M1			
n-Propylbenzene	ug/L	0.013 mg/L	20	20	35.9	34.6	115	108	60-140	4				
Naphthalene	ug/L	0.0058 mg/L	20	20	30.3	28.5	123	114	60-140	6				
o-Xylene	ug/L	ND	20	20	21.9	21.9	107	107	60-140	0				
sec-Butylbenzene	ug/L	0.0042 mg/L	20	20	28.1	27.0	119	114	60-140	4				
Styrene	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	21.8	21.7	109	108	60-140	0				
Toluene	ug/L	0.00058 mg/L	20	20	21.0	21.6	102	105	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Trichloroethene	ug/L	ND	20	20	21.5	21.4	107	107	60-140	0				
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2				
Vinyl chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2				
1,2-Dichloroethane-d4 (S)	%						104	104	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501815

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident

Pace Project No.: 92501815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501815001	13926A_HC_RD_20201022	MADEPV	1565284	MADEP VPH	1565284
92501815001	13926A_HC_RD_20201022	EPA 3010A	575220	EPA 6010D	575237
92501815001	13926A_HC_RD_20201022	SM 6200B	575350		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

ber or

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies
Address: Apex Companies

Billing Information:

Report To: Andrew Street
Copy To: Andrew Street

LAB USE ONLY

MO# : 92501815
Container: 92501815

Container

Customer Project Name/Number: 2020-L1-2498 Incident
Site/Facility ID #: NE Huntersville

State: County/City: Time Zone Collected: Compliance Monitoring? DW PWS ID #: DW Location Code: Immediately Packed on Ice: Field Filtered (if applicable): [] Yes [] No [] Yes [] No Analysis: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)

Lab Profile/line: Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: Y N NA
Sample pH: Acceptable Y N NA
Sample pH: Acceptable Y N NA
PH Strips: Y N NA
Sulfide Present Y N NA
Lead Acetate Strips: Y N NA

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Table with columns: Matrix*, Comp / Grab, Collected (or Composite Start) Date, Composite End Date, Res Cl, # of Chgs

Table with columns: Customer Sample ID, Matrix*, Comp / Grab, Collected (or Composite Start) Date, Composite End Date, Res Cl, # of Chgs

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None Packing Material Used: Radchem sample(s) screened (<500 cpm): Y N

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time: Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature) Date/Time:

Lab Tracking #: 25339043
Samples received via: FEDEX UPS Client Courier Pace Courier
Lab Sample Temperature Info: Temp Blank Received: 52 NA
Therm ID#: 92501815
Cooler 1 Temp Upon Receipt: 52 oc
Cooler 1 Therm Corr. Factor: oc
Cooler 1 Corrected Temp: 52 oc
Comments:

Table #: MTL LAB USE ONLY
Accutum: Template: Prelogin: PM: PB:
Trip Blank Received: Y NA
HCL MeOH TSP Other
Non Conformance(s): YES / NO Page: of:

October 27, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92501817

Dear Andrew Street:

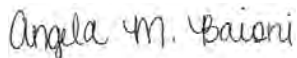
Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92501817

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501817001	FB-1	MADEP VPH	JAH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501817002	DUP-1	MADEP VPH	JAH	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501817003	TRIP BLANK	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

Sample: FB-1	Lab ID: 92501817001	Collected: 10/22/20 00:00	Received: 10/22/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/26/20 18:57	10/26/20 18:57		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/26/20 18:57	10/26/20 18:57		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/26/20 18:57	10/26/20 18:57	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/26/20 18:57	10/26/20 18:57	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.0	%	70.0-130	1	10/26/20 18:57	10/26/20 18:57	615-59-8FID	
2,5-Dibromotoluene (PID)	85.2	%	70.0-130	1	10/26/20 18:57	10/26/20 18:57	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/23/20 01:43	10/26/20 06:39	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 14:49	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 14:49	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 14:49	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 14:49	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 14:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 14:49	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 14:49	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 14:49	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 14:49	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 14:49	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 14:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 14:49	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 14:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 14:49	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 14:49	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 14:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 14:49	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 14:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 14:49	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 14:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 14:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 14:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 14:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 14:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 14:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 14:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 14:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 14:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 14:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 14:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 14:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 14:49	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

Sample: FB-1	Lab ID: 92501817001	Collected: 10/22/20 00:00	Received: 10/22/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 14:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 14:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 14:49	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 14:49	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 14:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 14:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 14:49	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 14:49	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 14:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 14:49	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 14:49	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 14:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 14:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 14:49	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 14:49	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 14:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 14:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 14:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 14:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 14:49	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 14:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 14:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 14:49	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 14:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 14:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 14:49	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 14:49	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 14:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/23/20 14:49	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/23/20 14:49	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 14:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

Sample: DUP-1	Lab ID: 92501817002	Collected: 10/22/20 00:00	Received: 10/22/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/26/20 19:30	10/26/20 19:30		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/26/20 19:30	10/26/20 19:30		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/26/20 19:30	10/26/20 19:30	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/26/20 19:30	10/26/20 19:30	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.1	%	70.0-130	1	10/26/20 19:30	10/26/20 19:30	615-59-8FID	
2,5-Dibromotoluene (PID)	88.0	%	70.0-130	1	10/26/20 19:30	10/26/20 19:30	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/23/20 01:43	10/26/20 06:42	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 18:24	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 18:24	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 18:24	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 18:24	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 18:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 18:24	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 18:24	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 18:24	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 18:24	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 18:24	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 18:24	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 18:24	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 18:24	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 18:24	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 18:24	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 18:24	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 18:24	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 18:24	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 18:24	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 18:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 18:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 18:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 18:24	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 18:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 18:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 18:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 18:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 18:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 18:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 18:24	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 18:24	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 18:24	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

Sample: DUP-1		Lab ID: 92501817002	Collected: 10/22/20 00:00	Received: 10/22/20 15:50	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 18:24	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 18:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 18:24	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 18:24	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 18:24	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 18:24	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 18:24	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 18:24	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 18:24	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 18:24	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 18:24	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 18:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 18:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 18:24	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 18:24	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 18:24	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 18:24	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 18:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 18:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 18:24	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 18:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 18:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 18:24	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 18:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 18:24	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 18:24	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 18:24	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 18:24	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/23/20 18:24	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/23/20 18:24	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 18:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

Sample: TRIP BLANK	Lab ID: 92501817003	Collected: 10/22/20 00:00	Received: 10/22/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/23/20 15:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 15:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 15:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 15:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 15:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 15:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 15:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 15:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 15:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 15:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 15:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 15:07	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 15:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 15:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 15:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 15:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 15:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 15:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 15:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 15:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 15:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 15:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 15:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 15:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 15:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 15:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 15:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 15:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 15:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 15:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 15:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 15:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 15:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 15:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 15:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 15:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 15:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 15:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 15:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 15:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 15:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 15:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 15:07	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 15:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 15:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 15:07	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

Sample: TRIP BLANK	Lab ID: 92501817003	Collected: 10/22/20 00:00	Received: 10/22/20 15:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 15:07	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 15:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 15:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 15:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 15:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 15:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 15:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 15:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 15:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 15:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 15:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 15:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 15:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 15:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/23/20 15:07	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/23/20 15:07	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/23/20 15:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501817

QC Batch: 1565284	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501817001, 92501817002

METHOD BLANK: R3585993-3 Matrix: Water

Associated Lab Samples: 92501817001, 92501817002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/26/20 13:48	
Aliphatic (C09-C12)	ug/L	ND	100	10/26/20 13:48	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/26/20 13:48	
Total VPH	ug/L	ND	100	10/26/20 13:48	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	10/26/20 13:48	
2,5-Dibromotoluene (PID)	%	81.8	70.0-130	10/26/20 13:48	

LABORATORY CONTROL SAMPLE & LCSD: R3585993-1 R3585993-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1130	106	94.2	70.0-130	11.7	25	
Aliphatic (C09-C12)	ug/L	1400	1530	1360	109	97.1	70.0-130	11.8	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	206	183	103	91.5	70.0-130	11.8	25	
Total VPH	ug/L	2800	3010	2670	108	95.4	70.0-130	12.0	25	
2,5-Dibromotoluene (FID)	%				87.2	86.6	70.0-130			
2,5-Dibromotoluene (PID)	%				84.7	84.1	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501817

QC Batch: 575221	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501817001, 92501817002

METHOD BLANK: 3045077 Matrix: Water

Associated Lab Samples: 92501817001, 92501817002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/26/20 04:59	

LABORATORY CONTROL SAMPLE: 3045078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	476	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3045079 3045080

Parameter	Units	92501340031 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Lead	ug/L	ND	500	504	495	101	99	75-125	2				

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92501817

QC Batch: 575350 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92501817001, 92501817002, 92501817003

METHOD BLANK: 3045558 Matrix: Water
Associated Lab Samples: 92501817001, 92501817002, 92501817003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
Benzene	ug/L	ND	0.50	10/23/20 11:14	
Bromobenzene	ug/L	ND	0.50	10/23/20 11:14	
Bromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromoform	ug/L	ND	0.50	10/23/20 11:14	
Bromomethane	ug/L	ND	5.0	10/23/20 11:14	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 11:14	
Chlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
Chloroethane	ug/L	ND	1.0	10/23/20 11:14	
Chloroform	ug/L	ND	0.50	10/23/20 11:14	
Chloromethane	ug/L	ND	1.0	10/23/20 11:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Dibromomethane	ug/L	ND	0.50	10/23/20 11:14	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 11:14	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 11:14	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

METHOD BLANK: 3045558

Matrix: Water

Associated Lab Samples: 92501817001, 92501817002, 92501817003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 11:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 11:14	
m&p-Xylene	ug/L	ND	1.0	10/23/20 11:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 11:14	
Methylene Chloride	ug/L	ND	2.0	10/23/20 11:14	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Naphthalene	ug/L	ND	2.0	10/23/20 11:14	
o-Xylene	ug/L	ND	0.50	10/23/20 11:14	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Styrene	ug/L	ND	0.50	10/23/20 11:14	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 11:14	
Toluene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Trichloroethene	ug/L	ND	0.50	10/23/20 11:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 11:14	
Vinyl chloride	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/23/20 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/23/20 11:14	
Toluene-d8 (S)	%	101	70-130	10/23/20 11:14	

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethene	ug/L	50	53.4	107	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.8	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	54.4	109	60-140	
1,2-Dichloroethane	ug/L	50	45.3	91	60-140	
1,2-Dichloropropane	ug/L	50	51.8	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	54.6	109	60-140	
1,3-Dichloropropane	ug/L	50	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	53.8	108	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	53.9	108	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	50.0	100	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	52.8	106	60-140	
Bromomethane	ug/L	50	64.7	129	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	45.9	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.6	105	60-140	
Dichlorodifluoromethane	ug/L	50	48.4	97	60-140	
Diisopropyl ether	ug/L	50	48.9	98	60-140	
Ethylbenzene	ug/L	50	51.7	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	49.7	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	54.0	108	60-140	
Naphthalene	ug/L	50	60.6	121	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	42.6	85	60-140	
Vinyl chloride	ug/L	50	46.4	93	60-140	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

Parameter	92500481001		MS	MSD	3045560		3045561		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.9	109	109	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.7	104	103	60-140	0			
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2			
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1			
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	26.4	23.1	132	115	60-140	13			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	19.9	106	99	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	26.2	23.7	131	119	60-140	10			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.6	21.6	113	108	60-140	4			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.4	23.6	122	118	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	21.3	113	107	60-140	6			
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	96	94	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.3	21.7	106	108	60-140	2			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5			
1,3-Dichlorobenzene	ug/L	ND	20	20	22.5	21.4	113	107	60-140	5			
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.3	113	107	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1			
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.9	115	110	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	21.9	21.0	109	105	60-140	4			
Benzene	ug/L	0.0031 mg/L	20	20	23.8	24.6	103	107	60-140	3			
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	60-140	5			
Bromochloromethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0			
Bromodichloromethane	ug/L	ND	20	20	20.7	20.8	103	104	60-140	1			
Bromoform	ug/L	ND	20	20	20.3	20.1	101	100	60-140	1			
Bromomethane	ug/L	ND	20	20	26.4	27.0	132	135	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	21.8	22.1	109	111	60-140	2			
Chlorobenzene	ug/L	ND	20	20	21.5	21.4	108	107	60-140	0			
Chloroethane	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2			
Chloroform	ug/L	ND	20	20	21.1	21.1	106	105	60-140	0			
Chloromethane	ug/L	ND	20	20	20.5	20.1	103	100	60-140	2			
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.7	105	104	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3			
Dibromochloromethane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2			
Dibromomethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1			
Diisopropyl ether	ug/L	0.0058 mg/L	20	20	26.5	26.5	104	103	60-140	0			
Ethylbenzene	ug/L	0.00058 mg/L	20	20	21.8	21.8	106	106	60-140	0			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	24.7	137	124	60-140	10			
Isopropylbenzene (Cumene)	ug/L	0.0045 mg/L	20	20	27.0	26.7	113	111	60-140	1			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

Parameter	92500481001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
m&p-Xylene	ug/L	0.0023 mg/L	40	40	45.2	45.5	107	108	60-140	1				
Methyl-tert-butyl ether	ug/L	0.0023 mg/L	20	20	22.2	22.7	99	102	60-140	2				
Methylene Chloride	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1				
n-Butylbenzene	ug/L	ND	20	20	32.7	31.2	164	156	60-140	5 M1				
n-Propylbenzene	ug/L	0.013 mg/L	20	20	35.9	34.6	115	108	60-140	4				
Naphthalene	ug/L	0.0058 mg/L	20	20	30.3	28.5	123	114	60-140	6				
o-Xylene	ug/L	ND	20	20	21.9	21.9	107	107	60-140	0				
sec-Butylbenzene	ug/L	0.0042 mg/L	20	20	28.1	27.0	119	114	60-140	4				
Styrene	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	21.8	21.7	109	108	60-140	0				
Toluene	ug/L	0.00058 mg/L	20	20	21.0	21.6	102	105	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Trichloroethene	ug/L	ND	20	20	21.5	21.4	107	107	60-140	0				
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2				
Vinyl chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2				
1,2-Dichloroethane-d4 (S)	%						104	104	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident

Pace Project No.: 92501817

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501817001	FB-1	MADEPV	1565284	MADEP VPH	1565284
92501817002	DUP-1	MADEPV	1565284	MADEP VPH	1565284
92501817001	FB-1	EPA 3010A	575221	EPA 6010D	575246
92501817002	DUP-1	EPA 3010A	575221	EPA 6010D	575246
92501817001	FB-1	SM 6200B	575350		
92501817002	DUP-1	SM 6200B	575350		
92501817003	TRIP BLANK	SM 6200B	575350		

REPORT OF LABORATORY ANALYSIS

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Company: Apex Companies
 Address: Anderson Street
 Report To: Anderson Street
 Copy To: Anderson Street & Apex Co. S. Com

Customer Project Name/Number: 2020-11-2448 Incident
 State: NC / Hendersonville
 County/City: Hendersonville
 Time Zone Collected: PT MT CT ET

Phone: Site/Facility ID #
 Email: Compliance Monitoring?
 Collected By (Print): Naomii Fetz
 Quote #: DW PWS ID #:
 Turnaround Date Required: ASAP
 Immediately Packed on Ice:
 Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day
 Field Filtered (if applicable): [] Yes [] No
 Analysis: [] Yes [] No

Sample Disposal: [] Return [] Dispose as appropriate [] Hold:
 * Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
Trip Blank	OT		10-22-20					2
FB-1	OT	G						3
DUP-1	DW	G						3

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N N

Relinquished by/Company: (Signature) Naomii Fetz / Apex
 Date/Time: 10-22-20 1550
 Relinquished by/Company: (Signature) B.B. PACE
 Date/Time: 10-22-20
 Received by/Company: (Signature) B.B. PACE
 Date/Time: 10-22-20
 Received by/Company: (Signature) B.B. PACE
 Date/Time: 10-22-20

LAB USE ONLY
 MO#: 92501817
 Container: 92501817
 Analyses:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line:
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact: Y N NA
 Custody Signatures Present: Y N NA
 Collector Signatures Present: Y N NA
 Bottles Intact: Y N NA
 Correct Bottles: Y N NA
 Sufficient Volume: Y N NA
 Samples Received on Ice: Y N NA
 VOA - Headspace Acceptable: Y N NA
 USDA Regulated Soils: Y N NA
 Samples in Holding Time: Y N NA
 Residual Chlorine Present: Y N NA
 CI Strips: Y N NA
 Sample pH Acceptable: Y N NA
 pH Strips: Y N NA
 Sulfide Present: Y N NA
 Lead Acetate Strips: Y N NA

VOCs 6200B
 MADEP VPH
 Lead
 Lab Sample #: / Comments: 92501817
 Lab USE ONLY:
 Temp Blank Received: 5:10:00 NA
 Therm ID#: 5:10:00 NA
 Cooler 1 Temp Upon Receipt: 5:20:00 NA
 Cooler 1 Therm Corr. Factor: 0.00 NA
 Cooler 1 Corrected Temp: 5:20:00 NA

Lab Sample Temperature Info:
 Temp Blank Received: 5:10:00 NA
 Therm ID#: 5:10:00 NA
 Cooler 1 Temp Upon Receipt: 5:20:00 NA
 Cooler 1 Therm Corr. Factor: 0.00 NA
 Cooler 1 Corrected Temp: 5:20:00 NA
 Comments: Trip Blank Received: 5:10:00 NA
 MeOH TSP Other: 5:10:00 NA
 Non Conformance(s): YES / NO
 Page: of:

November 04, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448-Incident
Pace Project No.: 92502940

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502940

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448-Incident

Pace Project No.: 92502940

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92502940001	14401_HC_RD_20201029	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502940

Sample: 14401_HC_RD_20201029 **Lab ID:** 92502940001 Collected: 10/29/20 14:10 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/01/20 19:28	11/01/20 19:28		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/01/20 19:28	11/01/20 19:28		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/01/20 19:28	11/01/20 19:28	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/01/20 19:28	11/01/20 19:28	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.5	%	70.0-130	1	11/01/20 19:28	11/01/20 19:28	615-59-8FID	
2,5-Dibromotoluene (PID)	95.8	%	70.0-130	1	11/01/20 19:28	11/01/20 19:28	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/30/20 02:45	11/03/20 00:03	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/31/20 02:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 02:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 02:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 02:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 02:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 02:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 02:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 02:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 02:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 02:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 02:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 02:45	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/31/20 02:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 02:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 02:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 02:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 02:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 02:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 02:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 02:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 02:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 02:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 02:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 02:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 02:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 02:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 02:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 02:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 02:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 02:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 02:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 02:45	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502940

Sample: 14401_HC_RD_20201029	Lab ID: 92502940001	Collected: 10/29/20 14:10	Received: 10/29/20 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 02:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 02:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 02:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 02:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 02:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 02:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 02:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 02:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 02:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 02:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 02:45	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 02:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 02:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 02:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 02:45	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 02:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 02:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 02:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 02:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 02:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 02:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 02:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 02:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 02:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 02:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 02:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 02:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 02:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/31/20 02:45	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/31/20 02:45	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/31/20 02:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502940

QC Batch: 1569272	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92502940001

METHOD BLANK: R3589025-3 Matrix: Water
Associated Lab Samples: 92502940001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/01/20 14:22	
Aliphatic (C09-C12)	ug/L	ND	100	11/01/20 14:22	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/01/20 14:22	
Total VPH	ug/L	ND	100	11/01/20 14:22	
2,5-Dibromotoluene (FID)	%	85.2	70.0-130	11/01/20 14:22	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	11/01/20 14:22	

Parameter	Units	R3589025-1		R3589025-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1150	1110	95.8	92.5	70.0-130	3.54	25
Aliphatic (C09-C12)	ug/L	1400	1390	1350	99.3	96.4	70.0-130	2.92	25
Aromatic (C09-C10),Unadjusted	ug/L	200	212	205	106	103	70.0-130	3.36	25
Total VPH	ug/L	2800	2750	2670	98.2	95.4	70.0-130	2.95	25
2,5-Dibromotoluene (FID)	%				91.3	92.1	70.0-130		
2,5-Dibromotoluene (PID)	%				99.1	99.9	70.0-130		

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502940

QC Batch: 576852	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92502940001

METHOD BLANK: 3052814 Matrix: Water
Associated Lab Samples: 92502940001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/02/20 22:41	

LABORATORY CONTROL SAMPLE: 3052815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3052816 3052817

Parameter	Units	92502403003		3052817		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	489	479	97	95	75-125	2

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502940

QC Batch: 576912 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92502940001

METHOD BLANK: 3052937 Matrix: Water
Associated Lab Samples: 92502940001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
2,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
2-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
4-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
Benzene	ug/L	ND	0.50	10/31/20 01:34	
Bromobenzene	ug/L	ND	0.50	10/31/20 01:34	
Bromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromodichloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromoform	ug/L	ND	0.50	10/31/20 01:34	
Bromomethane	ug/L	ND	5.0	10/31/20 01:34	
Carbon tetrachloride	ug/L	ND	0.50	10/31/20 01:34	
Chlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
Chloroethane	ug/L	ND	1.0	10/31/20 01:34	
Chloroform	ug/L	ND	0.50	10/31/20 01:34	
Chloromethane	ug/L	ND	1.0	10/31/20 01:34	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Dibromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Dibromomethane	ug/L	ND	0.50	10/31/20 01:34	
Dichlorodifluoromethane	ug/L	ND	0.50	10/31/20 01:34	
Diisopropyl ether	ug/L	ND	0.50	10/31/20 01:34	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502940

METHOD BLANK: 3052937 Matrix: Water
Associated Lab Samples: 92502940001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/31/20 01:34	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/31/20 01:34	
m&p-Xylene	ug/L	ND	1.0	10/31/20 01:34	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/31/20 01:34	
Methylene Chloride	ug/L	ND	2.0	10/31/20 01:34	
n-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
n-Propylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Naphthalene	ug/L	ND	2.0	10/31/20 01:34	
o-Xylene	ug/L	ND	0.50	10/31/20 01:34	
sec-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Styrene	ug/L	ND	0.50	10/31/20 01:34	
tert-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Tetrachloroethene	ug/L	ND	0.50	10/31/20 01:34	
Toluene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Trichloroethene	ug/L	ND	0.50	10/31/20 01:34	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/20 01:34	
Vinyl chloride	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dichloroethane-d4 (S)	%	104	70-130	10/31/20 01:34	
4-Bromofluorobenzene (S)	%	98	70-130	10/31/20 01:34	
Toluene-d8 (S)	%	101	70-130	10/31/20 01:34	

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.0	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethene	ug/L	50	55.0	110	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	52.2	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.2	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	60-140	
1,2-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,2-Dichloroethane	ug/L	50	47.4	95	60-140	
1,2-Dichloropropane	ug/L	50	52.5	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.0	104	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502940

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.6	107	60-140	
1,3-Dichloropropane	ug/L	50	52.5	105	60-140	
1,4-Dichlorobenzene	ug/L	50	53.1	106	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	50.7	101	60-140	
Benzene	ug/L	50	50.7	101	60-140	
Bromobenzene	ug/L	50	50.9	102	60-140	
Bromochloromethane	ug/L	50	52.7	105	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	50.0	100	60-140	
Bromomethane	ug/L	50	47.3	95	60-140	
Carbon tetrachloride	ug/L	50	49.2	98	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.8	102	60-140	
Chloromethane	ug/L	50	43.3	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	53.9	108	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	50.5	101	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	52.1	104	60-140	
Methylene Chloride	ug/L	50	50.0	100	60-140	
n-Butylbenzene	ug/L	50	53.4	107	60-140	
n-Propylbenzene	ug/L	50	51.8	104	60-140	
Naphthalene	ug/L	50	56.7	113	60-140	
o-Xylene	ug/L	50	51.2	102	60-140	
sec-Butylbenzene	ug/L	50	51.8	104	60-140	
Styrene	ug/L	50	52.8	106	60-140	
tert-Butylbenzene	ug/L	50	44.6	89	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	50.6	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	52.2	104	60-140	
Trichlorofluoromethane	ug/L	50	42.2	84	60-140	
Vinyl chloride	ug/L	50	44.7	89	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502940

Parameter	92502633003		MS	MSD	3054399		3054400		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	269	302	108	121	60-140	11			
1,1,1-Trichloroethane	ug/L	ND	250	250	268	297	107	119	60-140	10			
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	252	278	101	111	60-140	10			
1,1,2-Trichloroethane	ug/L	ND	250	250	251	281	100	112	60-140	11			
1,1-Dichloroethane	ug/L	ND	250	250	256	288	102	115	60-140	12			
1,1-Dichloroethene	ug/L	ND	250	250	284	317	114	127	60-140	11			
1,1-Dichloropropene	ug/L	ND	250	250	267	298	107	119	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	250	250	301	299	120	120	60-140	1			
1,2,3-Trichloropropane	ug/L	ND	250	250	261	282	105	113	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	250	250	303	322	121	129	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1700	250	250	2080	2220	151	208	60-140	7	M1		
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	293	317	117	127	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	263	292	105	117	60-140	10			
1,2-Dichlorobenzene	ug/L	ND	250	250	275	303	110	121	60-140	10			
1,2-Dichloroethane	ug/L	ND	250	250	225	252	90	101	60-140	11			
1,2-Dichloropropane	ug/L	ND	250	250	260	282	104	113	60-140	8			
1,3,5-Trimethylbenzene	ug/L	ND	250	250	775	843	310	337	60-140	8	M1		
1,3-Dichlorobenzene	ug/L	ND	250	250	276	311	110	124	60-140	12			
1,3-Dichloropropane	ug/L	ND	250	250	263	290	105	116	60-140	10			
1,4-Dichlorobenzene	ug/L	ND	250	250	272	309	109	124	60-140	13			
2,2-Dichloropropane	ug/L	ND	250	250	273	311	109	124	60-140	13			
2-Chlorotoluene	ug/L	ND	250	250	305	361	122	144	60-140	17	M1		
4-Chlorotoluene	ug/L	ND	250	250	266	304	107	122	60-140	13			
Benzene	ug/L	68.5	250	250	328	365	104	119	60-140	11			
Bromobenzene	ug/L	ND	250	250	265	302	106	121	60-140	13			
Bromochloromethane	ug/L	ND	250	250	241	273	97	109	60-140	12			
Bromodichloromethane	ug/L	ND	250	250	252	286	101	114	60-140	13			
Bromoform	ug/L	ND	250	250	252	281	101	112	60-140	11			
Bromomethane	ug/L	ND	250	250	301	336	121	134	60-140	11			
Carbon tetrachloride	ug/L	ND	250	250	269	293	108	117	60-140	8			
Chlorobenzene	ug/L	ND	250	250	267	295	107	118	60-140	10			
Chloroethane	ug/L	ND	250	250	231	255	92	102	60-140	10			
Chloroform	ug/L	ND	250	250	292	324	117	130	60-140	11			
Chloromethane	ug/L	ND	250	250	241	259	96	104	60-140	7			
cis-1,2-Dichloroethene	ug/L	ND	250	250	249	283	100	113	60-140	12			
cis-1,3-Dichloropropene	ug/L	ND	250	250	265	299	106	119	60-140	12			
Dibromochloromethane	ug/L	ND	250	250	275	300	110	120	60-140	9			
Dibromomethane	ug/L	ND	250	250	261	290	105	116	60-140	10			
Dichlorodifluoromethane	ug/L	ND	250	250	232	270	93	108	60-140	15			
Diisopropyl ether	ug/L	ND	250	250	245	278	98	111	60-140	12			
Ethylbenzene	ug/L	1370	250	250	1750	1790	151	168	60-140	2	M1		
Hexachloro-1,3-butadiene	ug/L	ND	250	250	295	299	118	120	60-140	1			
Isopropylbenzene (Cumene)	ug/L	81.8	250	250	374	405	117	129	60-140	8			
m&p-Xylene	ug/L	3640	500	500	4450	4520	162	176	60-140	2	M1		
Methyl-tert-butyl ether	ug/L	ND	250	250	246	277	99	111	60-140	12			
Methylene Chloride	ug/L	ND	250	250	241	269	96	107	60-140	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

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502940

Parameter	92502633003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
n-Butylbenzene	ug/L	ND	250	250	338	373	135	149	60-140	10	M1			
n-Propylbenzene	ug/L	ND	250	250	510	559	204	224	60-140	9	M1			
Naphthalene	ug/L	304	250	250	633	667	132	145	60-140	5	M1			
o-Xylene	ug/L	1660	250	250	2060	2090	158	172	60-140	2	M1			
sec-Butylbenzene	ug/L	ND	250	250	270	315	108	126	60-140	15				
Styrene	ug/L	ND	250	250	294	321	118	128	60-140	9				
tert-Butylbenzene	ug/L	ND	250	250	243	272	97	109	60-140	11				
Tetrachloroethene	ug/L	ND	250	250	273	294	109	117	60-140	7				
Toluene	ug/L	619	250	250	909	940	116	128	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	250	250	263	296	105	118	60-140	12				
trans-1,3-Dichloropropene	ug/L	ND	250	250	259	290	103	116	60-140	11				
Trichloroethene	ug/L	ND	250	250	267	303	107	121	60-140	13				
Trichlorofluoromethane	ug/L	ND	250	250	250	275	100	110	60-140	10				
Vinyl chloride	ug/L	ND	250	250	236	264	94	106	60-140	12				
1,2-Dichloroethane-d4 (S)	%						100	104	70-130					
4-Bromofluorobenzene (S)	%						100	98	70-130					
Toluene-d8 (S)	%						98	97	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

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QUALIFIERS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502940

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448-Incident

Pace Project No.: 92502940

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92502940001	14401_HC_RD_20201029	MADEPV	1569272	MADEP VPH	1569272
92502940001	14401_HC_RD_20201029	EPA 3010A	576852	EPA 6010D	576860
92502940001	14401_HC_RD_20201029	SM 6200B	576912		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY
Lab Sample # / Comments:
92502940

Number or

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies
Address: Andrews Street
Report To: Andrews Street
Copy To: Andrews Street

Billing Information:
Email To: Andrews Street @ apex.com
Site Collection Info/Address: 14401 Huntersville Concord Rd
State: NC County/City: Huntersville Time Zone Collected: ET

Customer Project Name/Number: 2020-11-2448 Incident
Site/Facility ID #: NC
Phone: Andrews Street
Email: Andrews Street
Compliance Monitoring? Yes No

Lab Sample Receipt Checklist:
Custody Seals Present/Intact: N NA
Custody Signatures Present: N NA
Collector Signatures Present: N NA
Bottles Intact: N NA
Correct Bottles: N NA
Sufficient Volume: N NA
Samples Received on Ice: N NA
VOA - Headspace Acceptable: N NA
USDA Regulated Soils: N NA
Residual Chlorine Present: N NA
CI Strips: N NA
Sample pH Acceptable: N NA
pH Strips: N NA
Sulfide Present: N NA
Lead Acetate Strips: N NA

Collected By (print): Naomi Fritz
Collected By (signature): Naomi Fritz
Turnaround Date Required: ASAP
Rush: Same Day Next Day 2 Day 3 Day 4 Day 5 Day

Lab Profile/Line: 92502940
Lab Sample # / Comments: 001
LAB USE ONLY:
Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
<u>14461.HC.RD.20201079</u>	<u>DWS</u>	<u>G</u>	<u>10-29-20</u>	<u>1410</u>				<u>3</u>

Analyses	Lab Sample # / Comments
<u>VOCs 6200B</u>	<u>92502940</u>
<u>MADEP VPH</u>	<u>001</u>
<u>Lead</u>	<u>001</u>

Customer Remarks / Special Conditions / Possible Hazards:
Type of Ice Used: Met Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<5000 cpm): Y N NA
Received by/Company: (Signature) Naomi Fritz / Apex Date/Time: 10-29-20 1615
Received by/Company: (Signature) MTL Rec HCL Date/Time: 10/29/20 16:15
Received by/Company: (Signature) MTL Rec HCL Date/Time: 10/29/20 16:15

LAB USE ONLY:
Lab Tracking #: 2538945
Samples received via: FEDEX UPS Client
Courier: MTL LAB USE ONLY
Temp Blank Received: Y NA
HCL MeOH TSP Other: Y NA
Non Conformance(s): YES / NO Page: 1 of: 1

November 06, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448-Incident
Pace Project No.: 92502943

Dear Andrew Street:

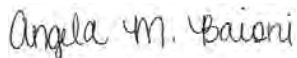
Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502943

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448-Incident

Pace Project No.: 92502943

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92502943001	13926B_HC_RD_20201029	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502943

Sample: 13926B_HC_RD_20201029 Lab ID: 92502943001 Collected: 10/29/20 10:45 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/01/20 20:33	11/01/20 20:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/01/20 20:33	11/01/20 20:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/01/20 20:33	11/01/20 20:33	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/01/20 20:33	11/01/20 20:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.0	%	70.0-130	1	11/01/20 20:33	11/01/20 20:33	615-59-8FID	
2,5-Dibromotoluene (PID)	94.1	%	70.0-130	1	11/01/20 20:33	11/01/20 20:33	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/30/20 02:45	11/03/20 00:07	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/31/20 03:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 03:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 03:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 03:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 03:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 03:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 03:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 03:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 03:03	75-00-3	
Chloroform	8.9	ug/L	0.50	1		10/31/20 03:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 03:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 03:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 03:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 03:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 03:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 03:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 03:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 03:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 03:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 03:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:03	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502943

Sample: 13926B_HC_RD_20201029 **Lab ID:** 92502943001 Collected: 10/29/20 10:45 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 03:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 03:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 03:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 03:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 03:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 03:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 03:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 03:03	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 03:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 03:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 03:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 03:03	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 03:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 03:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 03:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 03:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 03:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 03:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 03:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 03:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 03:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 03:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 03:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 03:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 03:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/31/20 03:03	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/31/20 03:03	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		10/31/20 03:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502943

QC Batch: 1569272	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92502943001

METHOD BLANK: R3589025-3 Matrix: Water
Associated Lab Samples: 92502943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/01/20 14:22	
Aliphatic (C09-C12)	ug/L	ND	100	11/01/20 14:22	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/01/20 14:22	
Total VPH	ug/L	ND	100	11/01/20 14:22	
2,5-Dibromotoluene (FID)	%	85.2	70.0-130	11/01/20 14:22	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	11/01/20 14:22	

Parameter	Units	R3589025-1		R3589025-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1150	1110	95.8	92.5	70.0-130	3.54	25
Aliphatic (C09-C12)	ug/L	1400	1390	1350	99.3	96.4	70.0-130	2.92	25
Aromatic (C09-C10),Unadjusted	ug/L	200	212	205	106	103	70.0-130	3.36	25
Total VPH	ug/L	2800	2750	2670	98.2	95.4	70.0-130	2.95	25
2,5-Dibromotoluene (FID)	%				91.3	92.1	70.0-130		
2,5-Dibromotoluene (PID)	%				99.1	99.9	70.0-130		

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502943

QC Batch: 576852	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92502943001

METHOD BLANK: 3052814 Matrix: Water
Associated Lab Samples: 92502943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/02/20 22:41	

LABORATORY CONTROL SAMPLE: 3052815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3052816 3052817

Parameter	Units	3052816		3052817		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	489	479	97	95	75-125	2

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502943

QC Batch: 576912	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92502943001

METHOD BLANK: 3052937 Matrix: Water

Associated Lab Samples: 92502943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
2,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
2-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
4-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
Benzene	ug/L	ND	0.50	10/31/20 01:34	
Bromobenzene	ug/L	ND	0.50	10/31/20 01:34	
Bromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromodichloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromoform	ug/L	ND	0.50	10/31/20 01:34	
Bromomethane	ug/L	ND	5.0	10/31/20 01:34	
Carbon tetrachloride	ug/L	ND	0.50	10/31/20 01:34	
Chlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
Chloroethane	ug/L	ND	1.0	10/31/20 01:34	
Chloroform	ug/L	ND	0.50	10/31/20 01:34	
Chloromethane	ug/L	ND	1.0	10/31/20 01:34	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Dibromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Dibromomethane	ug/L	ND	0.50	10/31/20 01:34	
Dichlorodifluoromethane	ug/L	ND	0.50	10/31/20 01:34	
Diisopropyl ether	ug/L	ND	0.50	10/31/20 01:34	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502943

METHOD BLANK: 3052937 Matrix: Water
Associated Lab Samples: 92502943001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/31/20 01:34	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/31/20 01:34	
m&p-Xylene	ug/L	ND	1.0	10/31/20 01:34	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/31/20 01:34	
Methylene Chloride	ug/L	ND	2.0	10/31/20 01:34	
n-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
n-Propylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Naphthalene	ug/L	ND	2.0	10/31/20 01:34	
o-Xylene	ug/L	ND	0.50	10/31/20 01:34	
sec-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Styrene	ug/L	ND	0.50	10/31/20 01:34	
tert-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Tetrachloroethene	ug/L	ND	0.50	10/31/20 01:34	
Toluene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Trichloroethene	ug/L	ND	0.50	10/31/20 01:34	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/20 01:34	
Vinyl chloride	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dichloroethane-d4 (S)	%	104	70-130	10/31/20 01:34	
4-Bromofluorobenzene (S)	%	98	70-130	10/31/20 01:34	
Toluene-d8 (S)	%	101	70-130	10/31/20 01:34	

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.0	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethene	ug/L	50	55.0	110	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	52.2	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.2	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	60-140	
1,2-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,2-Dichloroethane	ug/L	50	47.4	95	60-140	
1,2-Dichloropropane	ug/L	50	52.5	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.0	104	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502943

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.6	107	60-140	
1,3-Dichloropropane	ug/L	50	52.5	105	60-140	
1,4-Dichlorobenzene	ug/L	50	53.1	106	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	50.7	101	60-140	
Benzene	ug/L	50	50.7	101	60-140	
Bromobenzene	ug/L	50	50.9	102	60-140	
Bromochloromethane	ug/L	50	52.7	105	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	50.0	100	60-140	
Bromomethane	ug/L	50	47.3	95	60-140	
Carbon tetrachloride	ug/L	50	49.2	98	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.8	102	60-140	
Chloromethane	ug/L	50	43.3	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	53.9	108	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	50.5	101	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	52.1	104	60-140	
Methylene Chloride	ug/L	50	50.0	100	60-140	
n-Butylbenzene	ug/L	50	53.4	107	60-140	
n-Propylbenzene	ug/L	50	51.8	104	60-140	
Naphthalene	ug/L	50	56.7	113	60-140	
o-Xylene	ug/L	50	51.2	102	60-140	
sec-Butylbenzene	ug/L	50	51.8	104	60-140	
Styrene	ug/L	50	52.8	106	60-140	
tert-Butylbenzene	ug/L	50	44.6	89	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	50.6	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	52.2	104	60-140	
Trichlorofluoromethane	ug/L	50	42.2	84	60-140	
Vinyl chloride	ug/L	50	44.7	89	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502943

Parameter	92502633003		MS	MSD	3054399		3054400		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	269	302	108	121	60-140	11			
1,1,1-Trichloroethane	ug/L	ND	250	250	268	297	107	119	60-140	10			
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	252	278	101	111	60-140	10			
1,1,2-Trichloroethane	ug/L	ND	250	250	251	281	100	112	60-140	11			
1,1-Dichloroethane	ug/L	ND	250	250	256	288	102	115	60-140	12			
1,1-Dichloroethene	ug/L	ND	250	250	284	317	114	127	60-140	11			
1,1-Dichloropropene	ug/L	ND	250	250	267	298	107	119	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	250	250	301	299	120	120	60-140	1			
1,2,3-Trichloropropane	ug/L	ND	250	250	261	282	105	113	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	250	250	303	322	121	129	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1700	250	250	2080	2220	151	208	60-140	7	M1		
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	293	317	117	127	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	263	292	105	117	60-140	10			
1,2-Dichlorobenzene	ug/L	ND	250	250	275	303	110	121	60-140	10			
1,2-Dichloroethane	ug/L	ND	250	250	225	252	90	101	60-140	11			
1,2-Dichloropropane	ug/L	ND	250	250	260	282	104	113	60-140	8			
1,3,5-Trimethylbenzene	ug/L	ND	250	250	775	843	310	337	60-140	8	M1		
1,3-Dichlorobenzene	ug/L	ND	250	250	276	311	110	124	60-140	12			
1,3-Dichloropropane	ug/L	ND	250	250	263	290	105	116	60-140	10			
1,4-Dichlorobenzene	ug/L	ND	250	250	272	309	109	124	60-140	13			
2,2-Dichloropropane	ug/L	ND	250	250	273	311	109	124	60-140	13			
2-Chlorotoluene	ug/L	ND	250	250	305	361	122	144	60-140	17	M1		
4-Chlorotoluene	ug/L	ND	250	250	266	304	107	122	60-140	13			
Benzene	ug/L	68.5	250	250	328	365	104	119	60-140	11			
Bromobenzene	ug/L	ND	250	250	265	302	106	121	60-140	13			
Bromochloromethane	ug/L	ND	250	250	241	273	97	109	60-140	12			
Bromodichloromethane	ug/L	ND	250	250	252	286	101	114	60-140	13			
Bromoform	ug/L	ND	250	250	252	281	101	112	60-140	11			
Bromomethane	ug/L	ND	250	250	301	336	121	134	60-140	11			
Carbon tetrachloride	ug/L	ND	250	250	269	293	108	117	60-140	8			
Chlorobenzene	ug/L	ND	250	250	267	295	107	118	60-140	10			
Chloroethane	ug/L	ND	250	250	231	255	92	102	60-140	10			
Chloroform	ug/L	ND	250	250	292	324	117	130	60-140	11			
Chloromethane	ug/L	ND	250	250	241	259	96	104	60-140	7			
cis-1,2-Dichloroethene	ug/L	ND	250	250	249	283	100	113	60-140	12			
cis-1,3-Dichloropropene	ug/L	ND	250	250	265	299	106	119	60-140	12			
Dibromochloromethane	ug/L	ND	250	250	275	300	110	120	60-140	9			
Dibromomethane	ug/L	ND	250	250	261	290	105	116	60-140	10			
Dichlorodifluoromethane	ug/L	ND	250	250	232	270	93	108	60-140	15			
Diisopropyl ether	ug/L	ND	250	250	245	278	98	111	60-140	12			
Ethylbenzene	ug/L	1370	250	250	1750	1790	151	168	60-140	2	M1		
Hexachloro-1,3-butadiene	ug/L	ND	250	250	295	299	118	120	60-140	1			
Isopropylbenzene (Cumene)	ug/L	81.8	250	250	374	405	117	129	60-140	8			
m&p-Xylene	ug/L	3640	500	500	4450	4520	162	176	60-140	2	M1		
Methyl-tert-butyl ether	ug/L	ND	250	250	246	277	99	111	60-140	12			
Methylene Chloride	ug/L	ND	250	250	241	269	96	107	60-140	11			

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502943

Parameter	92502633003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	250	250	338	373	135	149	60-140	10	M1			
n-Propylbenzene	ug/L	ND	250	250	510	559	204	224	60-140	9	M1			
Naphthalene	ug/L	304	250	250	633	667	132	145	60-140	5	M1			
o-Xylene	ug/L	1660	250	250	2060	2090	158	172	60-140	2	M1			
sec-Butylbenzene	ug/L	ND	250	250	270	315	108	126	60-140	15				
Styrene	ug/L	ND	250	250	294	321	118	128	60-140	9				
tert-Butylbenzene	ug/L	ND	250	250	243	272	97	109	60-140	11				
Tetrachloroethene	ug/L	ND	250	250	273	294	109	117	60-140	7				
Toluene	ug/L	619	250	250	909	940	116	128	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	250	250	263	296	105	118	60-140	12				
trans-1,3-Dichloropropene	ug/L	ND	250	250	259	290	103	116	60-140	11				
Trichloroethene	ug/L	ND	250	250	267	303	107	121	60-140	13				
Trichlorofluoromethane	ug/L	ND	250	250	250	275	100	110	60-140	10				
Vinyl chloride	ug/L	ND	250	250	236	264	94	106	60-140	12				
1,2-Dichloroethane-d4 (S)	%						100	104	70-130					
4-Bromofluorobenzene (S)	%						100	98	70-130					
Toluene-d8 (S)	%						98	97	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

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QUALIFIERS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502943

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448-Incident
Pace Project No.: 92502943

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92502943001	13926B_HC_RD_20201029	MADEPV	1569272	MADEP VPH	1569272
92502943001	13926B_HC_RD_20201029	EPA 3010A	576852	EPA 6010D	576860
92502943001	13926B_HC_RD_20201029	SM 6200B	576912		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies
Address: Apex Companies

Report To: Andrew Street
Copy To: Andrew Street

Customer Project Name/Number: 2020-11-2498 Incident
State: NC

Site Collection Info/Address: 13926B Huntersville Concord Rd
County/City: Huntersville

Collected By (Print): Naomi Fritz
Quote #: Turnaround Date Required:

Sample Disposal: [] Same Day [] Next Day
[] 2 Day [] 3 Day [] 4 Day [] 5 Day

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SI), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Table with columns: Customer Sample ID, Matrix *, Comp / Grab, Collected (or Composite Start) Date, Composite End Date, Res Cl, # of Ctns. Includes handwritten entry: 13926B-HC-RO202409-DW1, 6, 10-29-20, 10/15, 8, X, X, X.

Customer Remarks / Special Conditions / Possible Hazards:
Relinquished by/Company: (Signature)
Relinquished by/Company: (Signature)

LAB USE
W0#: 92502943
92502943
Number or
Page 15 of 15

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Main data table with columns: Lab Sample/line, Lab Sample Receipt Checklist, Lab Tracking #: 2538940, Date/Time, Samples received via: FEDEX UPS, Client Courier, Pace Courier, Lab Sample Temperature Info, Temp Blank Received, Therm ID#, Cooler 1 Temp Upon Receipt, Cooler 1 Therm Corr. Factor, Cooler 1 Corrected Temp, Trip Blank Received, HCL, MeOH, TSP, Other, Non Conformance(s), Page of.

November 04, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448-Incident
Pace Project No.: 92502945

Dear Andrew Street:

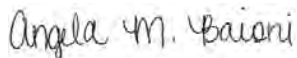
Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502945

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448-Incident

Pace Project No.: 92502945

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92502945001	13800_HC_RD_20201029	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502945

Sample: 13800_HC_RD_20201029 **Lab ID:** 92502945001 Collected: 10/29/20 10:00 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	11/01/20 18:21	11/01/20 18:21		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/01/20 18:21	11/01/20 18:21		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/01/20 18:21	11/01/20 18:21	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/01/20 18:21	11/01/20 18:21	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.0	%	70.0-130	1	11/01/20 18:21	11/01/20 18:21	615-59-8FID	
2,5-Dibromotoluene (PID)	94.9	%	70.0-130	1	11/01/20 18:21	11/01/20 18:21	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	10/30/20 02:45	11/03/20 00:10	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		10/31/20 03:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 03:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 03:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 03:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 03:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 03:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 03:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 03:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 03:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/31/20 03:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 03:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 03:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 03:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 03:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 03:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 03:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 03:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 03:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 03:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 03:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:21	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502945

Sample: 13800_HC_RD_20201029	Lab ID: 92502945001	Collected: 10/29/20 10:00	Received: 10/29/20 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 03:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 03:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 03:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 03:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 03:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 03:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 03:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 03:21	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 03:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 03:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 03:21	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 03:21	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 03:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 03:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 03:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 03:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 03:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 03:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 03:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 03:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 03:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 03:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 03:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 03:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 03:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		10/31/20 03:21	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/31/20 03:21	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/31/20 03:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502945

QC Batch: 1569272	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92502945001

METHOD BLANK: R3589025-3 Matrix: Water
Associated Lab Samples: 92502945001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/01/20 14:22	
Aliphatic (C09-C12)	ug/L	ND	100	11/01/20 14:22	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/01/20 14:22	
Total VPH	ug/L	ND	100	11/01/20 14:22	
2,5-Dibromotoluene (FID)	%	85.2	70.0-130	11/01/20 14:22	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	11/01/20 14:22	

Parameter	Units	R3589025-1		R3589025-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1150	1110	95.8	92.5	70.0-130	3.54	25
Aliphatic (C09-C12)	ug/L	1400	1390	1350	99.3	96.4	70.0-130	2.92	25
Aromatic (C09-C10),Unadjusted	ug/L	200	212	205	106	103	70.0-130	3.36	25
Total VPH	ug/L	2800	2750	2670	98.2	95.4	70.0-130	2.95	25
2,5-Dibromotoluene (FID)	%				91.3	92.1	70.0-130		
2,5-Dibromotoluene (PID)	%				99.1	99.9	70.0-130		

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

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502945

QC Batch: 576852

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92502945001

METHOD BLANK: 3052814

Matrix: Water

Associated Lab Samples: 92502945001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/02/20 22:41	

LABORATORY CONTROL SAMPLE: 3052815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3052816 3052817

Parameter	Units	3052816		3052817		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	489	479	97	95	75-125	2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502945

QC Batch: 576912	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92502945001

METHOD BLANK: 3052937 Matrix: Water

Associated Lab Samples: 92502945001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
2,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
2-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
4-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
Benzene	ug/L	ND	0.50	10/31/20 01:34	
Bromobenzene	ug/L	ND	0.50	10/31/20 01:34	
Bromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromodichloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromoform	ug/L	ND	0.50	10/31/20 01:34	
Bromomethane	ug/L	ND	5.0	10/31/20 01:34	
Carbon tetrachloride	ug/L	ND	0.50	10/31/20 01:34	
Chlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
Chloroethane	ug/L	ND	1.0	10/31/20 01:34	
Chloroform	ug/L	ND	0.50	10/31/20 01:34	
Chloromethane	ug/L	ND	1.0	10/31/20 01:34	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Dibromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Dibromomethane	ug/L	ND	0.50	10/31/20 01:34	
Dichlorodifluoromethane	ug/L	ND	0.50	10/31/20 01:34	
Diisopropyl ether	ug/L	ND	0.50	10/31/20 01:34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502945

METHOD BLANK: 3052937 Matrix: Water
Associated Lab Samples: 92502945001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/31/20 01:34	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/31/20 01:34	
m&p-Xylene	ug/L	ND	1.0	10/31/20 01:34	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/31/20 01:34	
Methylene Chloride	ug/L	ND	2.0	10/31/20 01:34	
n-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
n-Propylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Naphthalene	ug/L	ND	2.0	10/31/20 01:34	
o-Xylene	ug/L	ND	0.50	10/31/20 01:34	
sec-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Styrene	ug/L	ND	0.50	10/31/20 01:34	
tert-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Tetrachloroethene	ug/L	ND	0.50	10/31/20 01:34	
Toluene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Trichloroethene	ug/L	ND	0.50	10/31/20 01:34	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/20 01:34	
Vinyl chloride	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dichloroethane-d4 (S)	%	104	70-130	10/31/20 01:34	
4-Bromofluorobenzene (S)	%	98	70-130	10/31/20 01:34	
Toluene-d8 (S)	%	101	70-130	10/31/20 01:34	

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.0	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethene	ug/L	50	55.0	110	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	52.2	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.2	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	60-140	
1,2-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,2-Dichloroethane	ug/L	50	47.4	95	60-140	
1,2-Dichloropropane	ug/L	50	52.5	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.0	104	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502945

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.6	107	60-140	
1,3-Dichloropropane	ug/L	50	52.5	105	60-140	
1,4-Dichlorobenzene	ug/L	50	53.1	106	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	50.7	101	60-140	
Benzene	ug/L	50	50.7	101	60-140	
Bromobenzene	ug/L	50	50.9	102	60-140	
Bromochloromethane	ug/L	50	52.7	105	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	50.0	100	60-140	
Bromomethane	ug/L	50	47.3	95	60-140	
Carbon tetrachloride	ug/L	50	49.2	98	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.8	102	60-140	
Chloromethane	ug/L	50	43.3	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	53.9	108	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	50.5	101	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	52.1	104	60-140	
Methylene Chloride	ug/L	50	50.0	100	60-140	
n-Butylbenzene	ug/L	50	53.4	107	60-140	
n-Propylbenzene	ug/L	50	51.8	104	60-140	
Naphthalene	ug/L	50	56.7	113	60-140	
o-Xylene	ug/L	50	51.2	102	60-140	
sec-Butylbenzene	ug/L	50	51.8	104	60-140	
Styrene	ug/L	50	52.8	106	60-140	
tert-Butylbenzene	ug/L	50	44.6	89	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	50.6	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	52.2	104	60-140	
Trichlorofluoromethane	ug/L	50	42.2	84	60-140	
Vinyl chloride	ug/L	50	44.7	89	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502945

Parameter	92502633003		MS	MSD	3054399		3054400		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	269	302	108	121	60-140	11			
1,1,1-Trichloroethane	ug/L	ND	250	250	268	297	107	119	60-140	10			
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	252	278	101	111	60-140	10			
1,1,2-Trichloroethane	ug/L	ND	250	250	251	281	100	112	60-140	11			
1,1-Dichloroethane	ug/L	ND	250	250	256	288	102	115	60-140	12			
1,1-Dichloroethene	ug/L	ND	250	250	284	317	114	127	60-140	11			
1,1-Dichloropropene	ug/L	ND	250	250	267	298	107	119	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	250	250	301	299	120	120	60-140	1			
1,2,3-Trichloropropane	ug/L	ND	250	250	261	282	105	113	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	250	250	303	322	121	129	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1700	250	250	2080	2220	151	208	60-140	7	M1		
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	293	317	117	127	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	263	292	105	117	60-140	10			
1,2-Dichlorobenzene	ug/L	ND	250	250	275	303	110	121	60-140	10			
1,2-Dichloroethane	ug/L	ND	250	250	225	252	90	101	60-140	11			
1,2-Dichloropropane	ug/L	ND	250	250	260	282	104	113	60-140	8			
1,3,5-Trimethylbenzene	ug/L	ND	250	250	775	843	310	337	60-140	8	M1		
1,3-Dichlorobenzene	ug/L	ND	250	250	276	311	110	124	60-140	12			
1,3-Dichloropropane	ug/L	ND	250	250	263	290	105	116	60-140	10			
1,4-Dichlorobenzene	ug/L	ND	250	250	272	309	109	124	60-140	13			
2,2-Dichloropropane	ug/L	ND	250	250	273	311	109	124	60-140	13			
2-Chlorotoluene	ug/L	ND	250	250	305	361	122	144	60-140	17	M1		
4-Chlorotoluene	ug/L	ND	250	250	266	304	107	122	60-140	13			
Benzene	ug/L	68.5	250	250	328	365	104	119	60-140	11			
Bromobenzene	ug/L	ND	250	250	265	302	106	121	60-140	13			
Bromochloromethane	ug/L	ND	250	250	241	273	97	109	60-140	12			
Bromodichloromethane	ug/L	ND	250	250	252	286	101	114	60-140	13			
Bromoform	ug/L	ND	250	250	252	281	101	112	60-140	11			
Bromomethane	ug/L	ND	250	250	301	336	121	134	60-140	11			
Carbon tetrachloride	ug/L	ND	250	250	269	293	108	117	60-140	8			
Chlorobenzene	ug/L	ND	250	250	267	295	107	118	60-140	10			
Chloroethane	ug/L	ND	250	250	231	255	92	102	60-140	10			
Chloroform	ug/L	ND	250	250	292	324	117	130	60-140	11			
Chloromethane	ug/L	ND	250	250	241	259	96	104	60-140	7			
cis-1,2-Dichloroethene	ug/L	ND	250	250	249	283	100	113	60-140	12			
cis-1,3-Dichloropropene	ug/L	ND	250	250	265	299	106	119	60-140	12			
Dibromochloromethane	ug/L	ND	250	250	275	300	110	120	60-140	9			
Dibromomethane	ug/L	ND	250	250	261	290	105	116	60-140	10			
Dichlorodifluoromethane	ug/L	ND	250	250	232	270	93	108	60-140	15			
Diisopropyl ether	ug/L	ND	250	250	245	278	98	111	60-140	12			
Ethylbenzene	ug/L	1370	250	250	1750	1790	151	168	60-140	2	M1		
Hexachloro-1,3-butadiene	ug/L	ND	250	250	295	299	118	120	60-140	1			
Isopropylbenzene (Cumene)	ug/L	81.8	250	250	374	405	117	129	60-140	8			
m&p-Xylene	ug/L	3640	500	500	4450	4520	162	176	60-140	2	M1		
Methyl-tert-butyl ether	ug/L	ND	250	250	246	277	99	111	60-140	12			
Methylene Chloride	ug/L	ND	250	250	241	269	96	107	60-140	11			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502945

Parameter	92502633003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	250	250	338	373	135	149	60-140	10	M1			
n-Propylbenzene	ug/L	ND	250	250	510	559	204	224	60-140	9	M1			
Naphthalene	ug/L	304	250	250	633	667	132	145	60-140	5	M1			
o-Xylene	ug/L	1660	250	250	2060	2090	158	172	60-140	2	M1			
sec-Butylbenzene	ug/L	ND	250	250	270	315	108	126	60-140	15				
Styrene	ug/L	ND	250	250	294	321	118	128	60-140	9				
tert-Butylbenzene	ug/L	ND	250	250	243	272	97	109	60-140	11				
Tetrachloroethene	ug/L	ND	250	250	273	294	109	117	60-140	7				
Toluene	ug/L	619	250	250	909	940	116	128	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	250	250	263	296	105	118	60-140	12				
trans-1,3-Dichloropropene	ug/L	ND	250	250	259	290	103	116	60-140	11				
Trichloroethene	ug/L	ND	250	250	267	303	107	121	60-140	13				
Trichlorofluoromethane	ug/L	ND	250	250	250	275	100	110	60-140	10				
Vinyl chloride	ug/L	ND	250	250	236	264	94	106	60-140	12				
1,2-Dichloroethane-d4 (S)	%						100	104	70-130					
4-Bromofluorobenzene (S)	%						100	98	70-130					
Toluene-d8 (S)	%						98	97	70-130					

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QUALIFIERS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502945

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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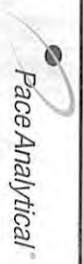
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448-Incident
Pace Project No.: 92502945

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92502945001	13800_HC_RD_20201029	MADEPV	1569272	MADEP VPH	1569272
92502945001	13800_HC_RD_20201029	EPA 3010A	576852	EPA 6010D	576860
92502945001	13800_HC_RD_20201029	SM 6200B	576912		

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Billing Information: _____

Report To: Andrew Street

Copy To: _____

Customer Project Name/Number: 2020 - CI - 2448 Incident

State: NC County/City: Huntsville Time Zone Collected: ET

Site Collection Info/Address: 13800 Huntsville Concord Rd

Phone: _____ Site/Facility ID #: _____

Collected By (Print): Adam Fritz

Collected By (Signature): [Signature]

Sample Disposal: ASAP

Turnaround Date Required: _____

Rush: Same Day Next Day

Disposition: Return 2 Day 3 Day 4 Day 5 Day

Archives: _____

Hold: _____

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID: 13800-HC-RD-20200329

Matrix * DWS

Comp / Grab G

Collected (or Composite Start) Date: 10-29-20 Time: 1000

Composite End Date: _____ Time: _____

Res Cl # of Chns: 8

Type of Ice Used: Met Blue Dry None

Packing Material Used: _____

Radchem sample(s) screened (<500 cpm): Y N

LAB U

MO#: 92502945

Number or



92502945

Content

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line: _____

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact Y N
- Custody Signatures Present Y N
- Collector Signatures Present Y N
- Bottles Intact Y N
- Correct Bottles Y N
- Sufficient Volume Y N
- Samples Received on Ice Y N
- VOA - Headspace Acceptable Y N
- USDA Regulated Solids Y N
- Samples in Holding Time Y N
- Residual Chlorine Present Y N
- Cl Strips: Y N
- Sample pH Acceptable Y N
- pH Strips: Y N
- Sulfide Present Y N
- Lead Acetate Strips: Y N

LAB USE ONLY: Lab Sample # / Comments: 92502845

CEL

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2538944

Samples received via: FEDEX UPS Courier Pace Courier

MTLL LAB USE ONLY

Date/Time: 10-29-20 16:15

Date/Time: _____

Date/Time: _____

Date/Time: _____

Temp Blank Received: Y N

Therm ID#: 971061

Cooler 1 Temp Upon Receipt: 27 °C

Cooler 1 Therm Corr. Factor: 0 °C

Cooler 1 Corrected Temp: 27 °C

Comments: _____

Trip Blank Received: Y N

HCL MeOH TSP Other

Non Conformance(s): _____

Page: _____ of: _____

November 06, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448-Incident
Pace Project No.: 92502946

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



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CERTIFICATIONS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502946

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448-Incident

Pace Project No.: 92502946

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92502946001	13945_AC_RD_20201029	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502946

Sample: 13945_AC_RD_20201029 **Lab ID:** 92502946001 Collected: 10/29/20 12:45 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/01/20 17:48	11/01/20 17:48		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/01/20 17:48	11/01/20 17:48		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/01/20 17:48	11/01/20 17:48	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/01/20 17:48	11/01/20 17:48	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.2	%	70.0-130	1	11/01/20 17:48	11/01/20 17:48	615-59-8FID	
2,5-Dibromotoluene (PID)	95.1	%	70.0-130	1	11/01/20 17:48	11/01/20 17:48	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/30/20 02:45	11/03/20 00:14	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/31/20 03:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 03:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 03:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 03:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 03:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 03:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 03:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 03:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 03:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/31/20 03:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 03:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 03:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 03:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 03:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 03:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 03:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 03:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 03:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 03:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 03:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:39	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502946

Sample: 13945_AC_RD_20201029 Lab ID: 92502946001 Collected: 10/29/20 12:45 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 03:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 03:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 03:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 03:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 03:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 03:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 03:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 03:39	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 03:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 03:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 03:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 03:39	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 03:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 03:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 03:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 03:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 03:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 03:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 03:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 03:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 03:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 03:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 03:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 03:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 03:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		10/31/20 03:39	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/31/20 03:39	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/31/20 03:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502946

QC Batch: 1569272	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92502946001

METHOD BLANK: R3589025-3 Matrix: Water
Associated Lab Samples: 92502946001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/01/20 14:22	
Aliphatic (C09-C12)	ug/L	ND	100	11/01/20 14:22	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/01/20 14:22	
Total VPH	ug/L	ND	100	11/01/20 14:22	
2,5-Dibromotoluene (FID)	%	85.2	70.0-130	11/01/20 14:22	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	11/01/20 14:22	

Parameter	Units	R3589025-1		R3589025-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1150	1110	95.8	92.5	70.0-130	3.54	25
Aliphatic (C09-C12)	ug/L	1400	1390	1350	99.3	96.4	70.0-130	2.92	25
Aromatic (C09-C10),Unadjusted	ug/L	200	212	205	106	103	70.0-130	3.36	25
Total VPH	ug/L	2800	2750	2670	98.2	95.4	70.0-130	2.95	25
2,5-Dibromotoluene (FID)	%				91.3	92.1	70.0-130		
2,5-Dibromotoluene (PID)	%				99.1	99.9	70.0-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502946

QC Batch: 576852

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92502946001

METHOD BLANK: 3052814

Matrix: Water

Associated Lab Samples: 92502946001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/02/20 22:41	

LABORATORY CONTROL SAMPLE: 3052815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3052816 3052817

Parameter	Units	3052816		3052817		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Lead	ug/L	ND	500	500	489	479	97	95	75-125	2	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502946

QC Batch: 576912 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92502946001

METHOD BLANK: 3052937 Matrix: Water

Associated Lab Samples: 92502946001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
2,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
2-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
4-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
Benzene	ug/L	ND	0.50	10/31/20 01:34	
Bromobenzene	ug/L	ND	0.50	10/31/20 01:34	
Bromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromodichloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromoform	ug/L	ND	0.50	10/31/20 01:34	
Bromomethane	ug/L	ND	5.0	10/31/20 01:34	
Carbon tetrachloride	ug/L	ND	0.50	10/31/20 01:34	
Chlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
Chloroethane	ug/L	ND	1.0	10/31/20 01:34	
Chloroform	ug/L	ND	0.50	10/31/20 01:34	
Chloromethane	ug/L	ND	1.0	10/31/20 01:34	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Dibromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Dibromomethane	ug/L	ND	0.50	10/31/20 01:34	
Dichlorodifluoromethane	ug/L	ND	0.50	10/31/20 01:34	
Diisopropyl ether	ug/L	ND	0.50	10/31/20 01:34	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502946

METHOD BLANK: 3052937 Matrix: Water
Associated Lab Samples: 92502946001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/31/20 01:34	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/31/20 01:34	
m&p-Xylene	ug/L	ND	1.0	10/31/20 01:34	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/31/20 01:34	
Methylene Chloride	ug/L	ND	2.0	10/31/20 01:34	
n-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
n-Propylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Naphthalene	ug/L	ND	2.0	10/31/20 01:34	
o-Xylene	ug/L	ND	0.50	10/31/20 01:34	
sec-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Styrene	ug/L	ND	0.50	10/31/20 01:34	
tert-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Tetrachloroethene	ug/L	ND	0.50	10/31/20 01:34	
Toluene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Trichloroethene	ug/L	ND	0.50	10/31/20 01:34	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/20 01:34	
Vinyl chloride	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dichloroethane-d4 (S)	%	104	70-130	10/31/20 01:34	
4-Bromofluorobenzene (S)	%	98	70-130	10/31/20 01:34	
Toluene-d8 (S)	%	101	70-130	10/31/20 01:34	

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.0	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethene	ug/L	50	55.0	110	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	52.2	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.2	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	60-140	
1,2-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,2-Dichloroethane	ug/L	50	47.4	95	60-140	
1,2-Dichloropropane	ug/L	50	52.5	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.0	104	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502946

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.6	107	60-140	
1,3-Dichloropropane	ug/L	50	52.5	105	60-140	
1,4-Dichlorobenzene	ug/L	50	53.1	106	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	50.7	101	60-140	
Benzene	ug/L	50	50.7	101	60-140	
Bromobenzene	ug/L	50	50.9	102	60-140	
Bromochloromethane	ug/L	50	52.7	105	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	50.0	100	60-140	
Bromomethane	ug/L	50	47.3	95	60-140	
Carbon tetrachloride	ug/L	50	49.2	98	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.8	102	60-140	
Chloromethane	ug/L	50	43.3	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	53.9	108	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	50.5	101	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	52.1	104	60-140	
Methylene Chloride	ug/L	50	50.0	100	60-140	
n-Butylbenzene	ug/L	50	53.4	107	60-140	
n-Propylbenzene	ug/L	50	51.8	104	60-140	
Naphthalene	ug/L	50	56.7	113	60-140	
o-Xylene	ug/L	50	51.2	102	60-140	
sec-Butylbenzene	ug/L	50	51.8	104	60-140	
Styrene	ug/L	50	52.8	106	60-140	
tert-Butylbenzene	ug/L	50	44.6	89	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	50.6	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	52.2	104	60-140	
Trichlorofluoromethane	ug/L	50	42.2	84	60-140	
Vinyl chloride	ug/L	50	44.7	89	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502946

Parameter	92502633003		MS	MSD	3054399		3054400		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	269	302	108	121	60-140	11			
1,1,1-Trichloroethane	ug/L	ND	250	250	268	297	107	119	60-140	10			
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	252	278	101	111	60-140	10			
1,1,2-Trichloroethane	ug/L	ND	250	250	251	281	100	112	60-140	11			
1,1-Dichloroethane	ug/L	ND	250	250	256	288	102	115	60-140	12			
1,1-Dichloroethene	ug/L	ND	250	250	284	317	114	127	60-140	11			
1,1-Dichloropropene	ug/L	ND	250	250	267	298	107	119	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	250	250	301	299	120	120	60-140	1			
1,2,3-Trichloropropane	ug/L	ND	250	250	261	282	105	113	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	250	250	303	322	121	129	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1700	250	250	2080	2220	151	208	60-140	7	M1		
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	293	317	117	127	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	263	292	105	117	60-140	10			
1,2-Dichlorobenzene	ug/L	ND	250	250	275	303	110	121	60-140	10			
1,2-Dichloroethane	ug/L	ND	250	250	225	252	90	101	60-140	11			
1,2-Dichloropropane	ug/L	ND	250	250	260	282	104	113	60-140	8			
1,3,5-Trimethylbenzene	ug/L	ND	250	250	775	843	310	337	60-140	8	M1		
1,3-Dichlorobenzene	ug/L	ND	250	250	276	311	110	124	60-140	12			
1,3-Dichloropropane	ug/L	ND	250	250	263	290	105	116	60-140	10			
1,4-Dichlorobenzene	ug/L	ND	250	250	272	309	109	124	60-140	13			
2,2-Dichloropropane	ug/L	ND	250	250	273	311	109	124	60-140	13			
2-Chlorotoluene	ug/L	ND	250	250	305	361	122	144	60-140	17	M1		
4-Chlorotoluene	ug/L	ND	250	250	266	304	107	122	60-140	13			
Benzene	ug/L	68.5	250	250	328	365	104	119	60-140	11			
Bromobenzene	ug/L	ND	250	250	265	302	106	121	60-140	13			
Bromochloromethane	ug/L	ND	250	250	241	273	97	109	60-140	12			
Bromodichloromethane	ug/L	ND	250	250	252	286	101	114	60-140	13			
Bromoform	ug/L	ND	250	250	252	281	101	112	60-140	11			
Bromomethane	ug/L	ND	250	250	301	336	121	134	60-140	11			
Carbon tetrachloride	ug/L	ND	250	250	269	293	108	117	60-140	8			
Chlorobenzene	ug/L	ND	250	250	267	295	107	118	60-140	10			
Chloroethane	ug/L	ND	250	250	231	255	92	102	60-140	10			
Chloroform	ug/L	ND	250	250	292	324	117	130	60-140	11			
Chloromethane	ug/L	ND	250	250	241	259	96	104	60-140	7			
cis-1,2-Dichloroethene	ug/L	ND	250	250	249	283	100	113	60-140	12			
cis-1,3-Dichloropropene	ug/L	ND	250	250	265	299	106	119	60-140	12			
Dibromochloromethane	ug/L	ND	250	250	275	300	110	120	60-140	9			
Dibromomethane	ug/L	ND	250	250	261	290	105	116	60-140	10			
Dichlorodifluoromethane	ug/L	ND	250	250	232	270	93	108	60-140	15			
Diisopropyl ether	ug/L	ND	250	250	245	278	98	111	60-140	12			
Ethylbenzene	ug/L	1370	250	250	1750	1790	151	168	60-140	2	M1		
Hexachloro-1,3-butadiene	ug/L	ND	250	250	295	299	118	120	60-140	1			
Isopropylbenzene (Cumene)	ug/L	81.8	250	250	374	405	117	129	60-140	8			
m&p-Xylene	ug/L	3640	500	500	4450	4520	162	176	60-140	2	M1		
Methyl-tert-butyl ether	ug/L	ND	250	250	246	277	99	111	60-140	12			
Methylene Chloride	ug/L	ND	250	250	241	269	96	107	60-140	11			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502946

Parameter	92502633003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	250	250	338	373	135	149	60-140	10	M1			
n-Propylbenzene	ug/L	ND	250	250	510	559	204	224	60-140	9	M1			
Naphthalene	ug/L	304	250	250	633	667	132	145	60-140	5	M1			
o-Xylene	ug/L	1660	250	250	2060	2090	158	172	60-140	2	M1			
sec-Butylbenzene	ug/L	ND	250	250	270	315	108	126	60-140	15				
Styrene	ug/L	ND	250	250	294	321	118	128	60-140	9				
tert-Butylbenzene	ug/L	ND	250	250	243	272	97	109	60-140	11				
Tetrachloroethene	ug/L	ND	250	250	273	294	109	117	60-140	7				
Toluene	ug/L	619	250	250	909	940	116	128	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	250	250	263	296	105	118	60-140	12				
trans-1,3-Dichloropropene	ug/L	ND	250	250	259	290	103	116	60-140	11				
Trichloroethene	ug/L	ND	250	250	267	303	107	121	60-140	13				
Trichlorofluoromethane	ug/L	ND	250	250	250	275	100	110	60-140	10				
Vinyl chloride	ug/L	ND	250	250	236	264	94	106	60-140	12				
1,2-Dichloroethane-d4 (S)	%						100	104	70-130					
4-Bromofluorobenzene (S)	%						100	98	70-130					
Toluene-d8 (S)	%						98	97	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502946

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448-Incident

Pace Project No.: 92502946

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92502946001	13945_AC_RD_20201029	MADEPV	1569272	MADEP VPH	1569272
92502946001	13945_AC_RD_20201029	EPA 3010A	576852	EPA 6010D	576860
92502946001	13945_AC_RD_20201029	SM 6200B	576912		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY

MO#: 92502946

Number of



Company: Apex Companies
Address: Apex Companies

Billing Information:
Report To: Andrew Street
Copy To: Andrew Street
Email To: Andrew.Street@apex.com
Site Collection Info/Address: 13945 Ashbury Chapel Road
State: NC / County/City: Hendersonville / Time Zone Collected: PT / MT / CT / ET

Customer Project Name/Number: 2020-1-2448 Incident
Site/Facility/ID #: NC / Hendersonville
Compliance Monitoring? Yes No
DW PWS ID #:
DW Location Code:
Turnaround Date Required:
Quote #:
Purchase Order #:
Immediately Packed on Ice: Yes No
Field Filtered (if applicable): Yes No
Analysis:
Rush: Same Day Next Day 2 Day 3 Day 4 Day 5 Day
Disposition: Return Dispose as appropriate Hold:
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container:
Analyses:
Lab Profile/Line:
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
CI Strips: Y N NA
Sample pH Acceptable Y N NA
pH Strips: Y N NA
Sulfide Present Y N NA
Lead Acetate Strips: Y N NA

Customer Sample ID, Matrix *, Comp / Grab, Collected (or Composite Start) Date, Composite End Date, Res Cl, # of Chs

Table with columns for VOCs, MADEP, VPH, Lead, and other analytical results.

Customer Remarks / Special Conditions / Possible Hazards:
Relinquished by/Company: (Signature) Naomi Fritz / Apex
Date/Time: 10-29-20 16:15
Received by/Company: (Signature) M.D. Ruel
Date/Time: 10/29/20 16:15

Lab Tracking #: 2539031
Samples received via: FEDEX UPS
Courier: Pace Courier
Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 91766
Cooler 1 Temp Upon Receipt: 21.1
Cooler 1 Therm Corr. Factor:
Cooler 1 Corrected Temp: 21.1
Trip Blank Received: Y N NA
HCL MeOH TSP Other
Non Conformance(s): YES / NO
Page: of

November 06, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448-Incident
Pace Project No.: 92502948

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502948

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448-Incident

Pace Project No.: 92502948

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92502948001	14015_AC_RD_20201029	MADEP VPH	BMB	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502948

Sample: 14015_AC_RD_20201029 **Lab ID:** 92502948001 Collected: 10/29/20 12:20 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	11/01/20 20:00	11/01/20 20:00		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/01/20 20:00	11/01/20 20:00		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/01/20 20:00	11/01/20 20:00	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/01/20 20:00	11/01/20 20:00	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.5	%	70.0-130	1	11/01/20 20:00	11/01/20 20:00	615-59-8FID	
2,5-Dibromotoluene (PID)	95.0	%	70.0-130	1	11/01/20 20:00	11/01/20 20:00	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	10/30/20 02:45	11/03/20 00:18	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		10/31/20 03:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 03:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 03:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 03:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 03:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 03:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 03:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 03:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 03:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 03:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/31/20 03:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 03:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 03:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 03:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 03:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 03:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 03:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 03:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 03:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 03:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 03:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 03:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 03:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 03:57	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502948

Sample: 14015_AC_RD_20201029 **Lab ID:** 92502948001 Collected: 10/29/20 12:20 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 03:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 03:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 03:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 03:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 03:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 03:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 03:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 03:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 03:57	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 03:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 03:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 03:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 03:57	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 03:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 03:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 03:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 03:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 03:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 03:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 03:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 03:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 03:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 03:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 03:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 03:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 03:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/31/20 03:57	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/31/20 03:57	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/31/20 03:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502948

QC Batch: 1569272	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92502948001

METHOD BLANK: R3589025-3 Matrix: Water
Associated Lab Samples: 92502948001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/01/20 14:22	
Aliphatic (C09-C12)	ug/L	ND	100	11/01/20 14:22	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/01/20 14:22	
Total VPH	ug/L	ND	100	11/01/20 14:22	
2,5-Dibromotoluene (FID)	%	85.2	70.0-130	11/01/20 14:22	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	11/01/20 14:22	

Parameter	Units	R3589025-1		R3589025-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1150	1110	95.8	92.5	70.0-130	3.54	25
Aliphatic (C09-C12)	ug/L	1400	1390	1350	99.3	96.4	70.0-130	2.92	25
Aromatic (C09-C10),Unadjusted	ug/L	200	212	205	106	103	70.0-130	3.36	25
Total VPH	ug/L	2800	2750	2670	98.2	95.4	70.0-130	2.95	25
2,5-Dibromotoluene (FID)	%				91.3	92.1	70.0-130		
2,5-Dibromotoluene (PID)	%				99.1	99.9	70.0-130		

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502948

QC Batch: 576852	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92502948001

METHOD BLANK: 3052814 Matrix: Water
Associated Lab Samples: 92502948001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/02/20 22:41	

LABORATORY CONTROL SAMPLE: 3052815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3052816 3052817

Parameter	Units	3052816		3052817		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	92502403003 ND	500	500	489	479	97	95	75-125	2

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502948

QC Batch: 576912	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92502948001

METHOD BLANK: 3052937 Matrix: Water

Associated Lab Samples: 92502948001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
2,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
2-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
4-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
Benzene	ug/L	ND	0.50	10/31/20 01:34	
Bromobenzene	ug/L	ND	0.50	10/31/20 01:34	
Bromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromodichloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromoform	ug/L	ND	0.50	10/31/20 01:34	
Bromomethane	ug/L	ND	5.0	10/31/20 01:34	
Carbon tetrachloride	ug/L	ND	0.50	10/31/20 01:34	
Chlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
Chloroethane	ug/L	ND	1.0	10/31/20 01:34	
Chloroform	ug/L	ND	0.50	10/31/20 01:34	
Chloromethane	ug/L	ND	1.0	10/31/20 01:34	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Dibromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Dibromomethane	ug/L	ND	0.50	10/31/20 01:34	
Dichlorodifluoromethane	ug/L	ND	0.50	10/31/20 01:34	
Diisopropyl ether	ug/L	ND	0.50	10/31/20 01:34	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502948

METHOD BLANK: 3052937 Matrix: Water
Associated Lab Samples: 92502948001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/31/20 01:34	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/31/20 01:34	
m&p-Xylene	ug/L	ND	1.0	10/31/20 01:34	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/31/20 01:34	
Methylene Chloride	ug/L	ND	2.0	10/31/20 01:34	
n-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
n-Propylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Naphthalene	ug/L	ND	2.0	10/31/20 01:34	
o-Xylene	ug/L	ND	0.50	10/31/20 01:34	
sec-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Styrene	ug/L	ND	0.50	10/31/20 01:34	
tert-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Tetrachloroethene	ug/L	ND	0.50	10/31/20 01:34	
Toluene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Trichloroethene	ug/L	ND	0.50	10/31/20 01:34	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/20 01:34	
Vinyl chloride	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dichloroethane-d4 (S)	%	104	70-130	10/31/20 01:34	
4-Bromofluorobenzene (S)	%	98	70-130	10/31/20 01:34	
Toluene-d8 (S)	%	101	70-130	10/31/20 01:34	

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.0	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethene	ug/L	50	55.0	110	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	52.2	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.2	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	60-140	
1,2-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,2-Dichloroethane	ug/L	50	47.4	95	60-140	
1,2-Dichloropropane	ug/L	50	52.5	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.0	104	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502948

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.6	107	60-140	
1,3-Dichloropropane	ug/L	50	52.5	105	60-140	
1,4-Dichlorobenzene	ug/L	50	53.1	106	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	50.7	101	60-140	
Benzene	ug/L	50	50.7	101	60-140	
Bromobenzene	ug/L	50	50.9	102	60-140	
Bromochloromethane	ug/L	50	52.7	105	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	50.0	100	60-140	
Bromomethane	ug/L	50	47.3	95	60-140	
Carbon tetrachloride	ug/L	50	49.2	98	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.8	102	60-140	
Chloromethane	ug/L	50	43.3	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	53.9	108	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	50.5	101	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	52.1	104	60-140	
Methylene Chloride	ug/L	50	50.0	100	60-140	
n-Butylbenzene	ug/L	50	53.4	107	60-140	
n-Propylbenzene	ug/L	50	51.8	104	60-140	
Naphthalene	ug/L	50	56.7	113	60-140	
o-Xylene	ug/L	50	51.2	102	60-140	
sec-Butylbenzene	ug/L	50	51.8	104	60-140	
Styrene	ug/L	50	52.8	106	60-140	
tert-Butylbenzene	ug/L	50	44.6	89	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	50.6	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	52.2	104	60-140	
Trichlorofluoromethane	ug/L	50	42.2	84	60-140	
Vinyl chloride	ug/L	50	44.7	89	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502948

Parameter	92502633003		MS	MSD	3054399		3054400		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	269	302	108	121	60-140	11			
1,1,1-Trichloroethane	ug/L	ND	250	250	268	297	107	119	60-140	10			
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	252	278	101	111	60-140	10			
1,1,2-Trichloroethane	ug/L	ND	250	250	251	281	100	112	60-140	11			
1,1-Dichloroethane	ug/L	ND	250	250	256	288	102	115	60-140	12			
1,1-Dichloroethene	ug/L	ND	250	250	284	317	114	127	60-140	11			
1,1-Dichloropropene	ug/L	ND	250	250	267	298	107	119	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	250	250	301	299	120	120	60-140	1			
1,2,3-Trichloropropane	ug/L	ND	250	250	261	282	105	113	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	250	250	303	322	121	129	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1700	250	250	2080	2220	151	208	60-140	7	M1		
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	293	317	117	127	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	263	292	105	117	60-140	10			
1,2-Dichlorobenzene	ug/L	ND	250	250	275	303	110	121	60-140	10			
1,2-Dichloroethane	ug/L	ND	250	250	225	252	90	101	60-140	11			
1,2-Dichloropropane	ug/L	ND	250	250	260	282	104	113	60-140	8			
1,3,5-Trimethylbenzene	ug/L	ND	250	250	775	843	310	337	60-140	8	M1		
1,3-Dichlorobenzene	ug/L	ND	250	250	276	311	110	124	60-140	12			
1,3-Dichloropropane	ug/L	ND	250	250	263	290	105	116	60-140	10			
1,4-Dichlorobenzene	ug/L	ND	250	250	272	309	109	124	60-140	13			
2,2-Dichloropropane	ug/L	ND	250	250	273	311	109	124	60-140	13			
2-Chlorotoluene	ug/L	ND	250	250	305	361	122	144	60-140	17	M1		
4-Chlorotoluene	ug/L	ND	250	250	266	304	107	122	60-140	13			
Benzene	ug/L	68.5	250	250	328	365	104	119	60-140	11			
Bromobenzene	ug/L	ND	250	250	265	302	106	121	60-140	13			
Bromochloromethane	ug/L	ND	250	250	241	273	97	109	60-140	12			
Bromodichloromethane	ug/L	ND	250	250	252	286	101	114	60-140	13			
Bromoform	ug/L	ND	250	250	252	281	101	112	60-140	11			
Bromomethane	ug/L	ND	250	250	301	336	121	134	60-140	11			
Carbon tetrachloride	ug/L	ND	250	250	269	293	108	117	60-140	8			
Chlorobenzene	ug/L	ND	250	250	267	295	107	118	60-140	10			
Chloroethane	ug/L	ND	250	250	231	255	92	102	60-140	10			
Chloroform	ug/L	ND	250	250	292	324	117	130	60-140	11			
Chloromethane	ug/L	ND	250	250	241	259	96	104	60-140	7			
cis-1,2-Dichloroethene	ug/L	ND	250	250	249	283	100	113	60-140	12			
cis-1,3-Dichloropropene	ug/L	ND	250	250	265	299	106	119	60-140	12			
Dibromochloromethane	ug/L	ND	250	250	275	300	110	120	60-140	9			
Dibromomethane	ug/L	ND	250	250	261	290	105	116	60-140	10			
Dichlorodifluoromethane	ug/L	ND	250	250	232	270	93	108	60-140	15			
Diisopropyl ether	ug/L	ND	250	250	245	278	98	111	60-140	12			
Ethylbenzene	ug/L	1370	250	250	1750	1790	151	168	60-140	2	M1		
Hexachloro-1,3-butadiene	ug/L	ND	250	250	295	299	118	120	60-140	1			
Isopropylbenzene (Cumene)	ug/L	81.8	250	250	374	405	117	129	60-140	8			
m&p-Xylene	ug/L	3640	500	500	4450	4520	162	176	60-140	2	M1		
Methyl-tert-butyl ether	ug/L	ND	250	250	246	277	99	111	60-140	12			
Methylene Chloride	ug/L	ND	250	250	241	269	96	107	60-140	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

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502948

Parameter	92502633003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	250	250	338	373	135	149	60-140	10	M1			
n-Propylbenzene	ug/L	ND	250	250	510	559	204	224	60-140	9	M1			
Naphthalene	ug/L	304	250	250	633	667	132	145	60-140	5	M1			
o-Xylene	ug/L	1660	250	250	2060	2090	158	172	60-140	2	M1			
sec-Butylbenzene	ug/L	ND	250	250	270	315	108	126	60-140	15				
Styrene	ug/L	ND	250	250	294	321	118	128	60-140	9				
tert-Butylbenzene	ug/L	ND	250	250	243	272	97	109	60-140	11				
Tetrachloroethene	ug/L	ND	250	250	273	294	109	117	60-140	7				
Toluene	ug/L	619	250	250	909	940	116	128	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	250	250	263	296	105	118	60-140	12				
trans-1,3-Dichloropropene	ug/L	ND	250	250	259	290	103	116	60-140	11				
Trichloroethene	ug/L	ND	250	250	267	303	107	121	60-140	13				
Trichlorofluoromethane	ug/L	ND	250	250	250	275	100	110	60-140	10				
Vinyl chloride	ug/L	ND	250	250	236	264	94	106	60-140	12				
1,2-Dichloroethane-d4 (S)	%						100	104	70-130					
4-Bromofluorobenzene (S)	%						100	98	70-130					
Toluene-d8 (S)	%						98	97	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

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QUALIFIERS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502948

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

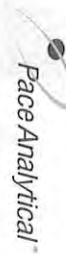
Project: 2020-LI-2448-Incident

Pace Project No.: 92502948

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92502948001	14015_AC_RD_20201029	MADEPV	1569272	MADEP VPH	1569272
92502948001	14015_AC_RD_20201029	EPA 3010A	576852	EPA 6010D	576860
92502948001	14015_AC_RD_20201029	SM 6200B	576912		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

LAB #
MO# : 92502948
r Number or

Company: **Pace Analytical**
Billing Information:
Report To: **Andrew Street**
Copy To: **Andrew Street**

Address: **Apex Companies**
Email To: **Andrew Street**
Site Collection Info/Address: **1615 Ashbury Road Rd**
State: **NC** County/City: **Wake** Time Zone Collected: **ET**

Customer Project Name/Number: **2020-C1-2448 Incident**
Site/Facility ID #: **NC 1615 Ashbury**
Phone: **704 272 2100**
Compliance Monitoring? Yes No

Collect By (print): **Naomi Feltz**
Purchase Order #: **ASAP**
Turnaround Date Required: **ASAP**
Sample Disposal: Same Day Next Day 2 Day 3 Day 4 Day 5 Day

Collected By (signature): **Naomi Feltz**
Rush: Same Day Next Day 2 Day 3 Day 4 Day 5 Day
 Archive: Return Hold: Expedite Charges Apply

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chgs	Analytes	Lab Profile/Line:
			Date	Time	Date	Time				
1615 AC RD 20201629	DW	G	16-29-20	1220			N/A	8	VOCs 6200B MADEP VPH Lead	Lab Sample Receipt Checklist: Custody Seals Present/Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Collector Signatures Present <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Bottles Intact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Correct Bottles <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sufficient Volume <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Samples Received on Ice <input checked="" type="checkbox"/> Y <input type="checkbox"/> N VOA - Headspace Acceptable <input checked="" type="checkbox"/> Y <input type="checkbox"/> N USDA - Regulated Soils <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Residual Chlorine Present <input checked="" type="checkbox"/> Y <input type="checkbox"/> N pH Strips: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sample pH Acceptable <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Sulfide Present <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Lead Acetate Strips: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N

Customer Remarks / Special Conditions / Possible Hazards: **SHORT HOLDS PRESENT (<72 hours): Y** N/A

Type of Ice Used: Wet Blue Dry

Packing Material Used:

Raddchem sample(s) screened (<500 cpm): Y N

Received by/Company: (Signature) **M De Pauw**
Date/Time: **10-29-20 16:15**
Received by/Company: (Signature) **HVL**
Date/Time: **10/29/20 16:15**

Relinquished by/Company: (Signature)
Date/Time:
Received by/Company: (Signature)
Date/Time:

Relinquished by/Company: (Signature)
Date/Time:
Received by/Company: (Signature)
Date/Time:
Actnum: Y N
Template: Y N
PrelogIn: Y N
Non Conformance(s): Y N
Page: of:

Lab Tracking #: **2538943**
Samples received via: **client**
Courier: **Pace Courier**
Courier: **MTL LAB USE ONLY**

Temp Blank Received: Y N
Therm ID#: **921619**
Cooler 1 Temp Upon Receipt: **2.1** oc
Cooler 1 Therm Corr. Factor: **0** oc
Cooler 1 Corrected Temp: **2.1** oc

Trip Blank Received: Y N
HCL MeOH TSP Other

November 06, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448-Incident
Pace Project No.: 92502951

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502951

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448-Incident
Pace Project No.: 92502951

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92502951001	13926A_HC_RD_20201029	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502951

Sample: 13926A_HC_RD_20201029 Lab ID: 92502951001 Collected: 10/29/20 11:30 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/01/20 18:54	11/01/20 18:54		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/01/20 18:54	11/01/20 18:54		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/01/20 18:54	11/01/20 18:54	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/01/20 18:54	11/01/20 18:54	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	85.6	%	70.0-130	1	11/01/20 18:54	11/01/20 18:54	615-59-8FID	
2,5-Dibromotoluene (PID)	90.7	%	70.0-130	1	11/01/20 18:54	11/01/20 18:54	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	6.6	ug/L	5.0	1	10/31/20 01:19	10/31/20 23:18	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/31/20 04:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 04:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 04:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 04:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 04:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 04:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 04:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 04:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 04:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 04:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 04:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 04:15	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/31/20 04:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 04:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 04:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 04:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 04:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 04:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 04:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 04:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 04:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 04:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 04:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 04:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 04:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 04:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 04:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 04:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 04:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 04:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 04:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 04:15	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502951

Sample: 13926A_HC_RD_20201029 **Lab ID:** 92502951001 Collected: 10/29/20 11:30 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 04:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 04:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 04:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 04:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 04:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 04:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 04:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 04:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 04:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 04:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 04:15	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 04:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 04:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 04:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 04:15	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 04:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 04:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 04:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 04:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 04:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 04:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 04:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 04:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 04:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 04:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 04:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 04:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 04:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/31/20 04:15	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/31/20 04:15	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/31/20 04:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502951

QC Batch: 1569272	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92502951001

METHOD BLANK: R3589025-3 Matrix: Water
Associated Lab Samples: 92502951001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/01/20 14:22	
Aliphatic (C09-C12)	ug/L	ND	100	11/01/20 14:22	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/01/20 14:22	
Total VPH	ug/L	ND	100	11/01/20 14:22	
2,5-Dibromotoluene (FID)	%	85.2	70.0-130	11/01/20 14:22	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	11/01/20 14:22	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: R3589025-1				R3589025-2				Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
Aliphatic (C05-C08)	ug/L	1200	1150	1110	95.8	92.5	70.0-130	3.54	25	
Aliphatic (C09-C12)	ug/L	1400	1390	1350	99.3	96.4	70.0-130	2.92	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	212	205	106	103	70.0-130	3.36	25	
Total VPH	ug/L	2800	2750	2670	98.2	95.4	70.0-130	2.95	25	
2,5-Dibromotoluene (FID)	%				91.3	92.1	70.0-130			
2,5-Dibromotoluene (PID)	%				99.1	99.9	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502951

QC Batch: 577134	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92502951001

METHOD BLANK: 3054004 Matrix: Water
Associated Lab Samples: 92502951001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/31/20 21:44	

LABORATORY CONTROL SAMPLE: 3054005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	514	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3054006 3054007

Parameter	Units	92501629001		3054007		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	486	479	97	95	75-125	1

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502951

QC Batch: 576912	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92502951001

METHOD BLANK: 3052937 Matrix: Water

Associated Lab Samples: 92502951001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
2,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
2-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
4-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
Benzene	ug/L	ND	0.50	10/31/20 01:34	
Bromobenzene	ug/L	ND	0.50	10/31/20 01:34	
Bromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromodichloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromoform	ug/L	ND	0.50	10/31/20 01:34	
Bromomethane	ug/L	ND	5.0	10/31/20 01:34	
Carbon tetrachloride	ug/L	ND	0.50	10/31/20 01:34	
Chlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
Chloroethane	ug/L	ND	1.0	10/31/20 01:34	
Chloroform	ug/L	ND	0.50	10/31/20 01:34	
Chloromethane	ug/L	ND	1.0	10/31/20 01:34	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Dibromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Dibromomethane	ug/L	ND	0.50	10/31/20 01:34	
Dichlorodifluoromethane	ug/L	ND	0.50	10/31/20 01:34	
Diisopropyl ether	ug/L	ND	0.50	10/31/20 01:34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502951

METHOD BLANK: 3052937 Matrix: Water
Associated Lab Samples: 92502951001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/31/20 01:34	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/31/20 01:34	
m&p-Xylene	ug/L	ND	1.0	10/31/20 01:34	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/31/20 01:34	
Methylene Chloride	ug/L	ND	2.0	10/31/20 01:34	
n-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
n-Propylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Naphthalene	ug/L	ND	2.0	10/31/20 01:34	
o-Xylene	ug/L	ND	0.50	10/31/20 01:34	
sec-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Styrene	ug/L	ND	0.50	10/31/20 01:34	
tert-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Tetrachloroethene	ug/L	ND	0.50	10/31/20 01:34	
Toluene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Trichloroethene	ug/L	ND	0.50	10/31/20 01:34	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/20 01:34	
Vinyl chloride	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dichloroethane-d4 (S)	%	104	70-130	10/31/20 01:34	
4-Bromofluorobenzene (S)	%	98	70-130	10/31/20 01:34	
Toluene-d8 (S)	%	101	70-130	10/31/20 01:34	

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.0	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethene	ug/L	50	55.0	110	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	52.2	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.2	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	60-140	
1,2-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,2-Dichloroethane	ug/L	50	47.4	95	60-140	
1,2-Dichloropropane	ug/L	50	52.5	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.0	104	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502951

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.6	107	60-140	
1,3-Dichloropropane	ug/L	50	52.5	105	60-140	
1,4-Dichlorobenzene	ug/L	50	53.1	106	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	50.7	101	60-140	
Benzene	ug/L	50	50.7	101	60-140	
Bromobenzene	ug/L	50	50.9	102	60-140	
Bromochloromethane	ug/L	50	52.7	105	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	50.0	100	60-140	
Bromomethane	ug/L	50	47.3	95	60-140	
Carbon tetrachloride	ug/L	50	49.2	98	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.8	102	60-140	
Chloromethane	ug/L	50	43.3	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	53.9	108	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	50.5	101	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	52.1	104	60-140	
Methylene Chloride	ug/L	50	50.0	100	60-140	
n-Butylbenzene	ug/L	50	53.4	107	60-140	
n-Propylbenzene	ug/L	50	51.8	104	60-140	
Naphthalene	ug/L	50	56.7	113	60-140	
o-Xylene	ug/L	50	51.2	102	60-140	
sec-Butylbenzene	ug/L	50	51.8	104	60-140	
Styrene	ug/L	50	52.8	106	60-140	
tert-Butylbenzene	ug/L	50	44.6	89	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	50.6	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	52.2	104	60-140	
Trichlorofluoromethane	ug/L	50	42.2	84	60-140	
Vinyl chloride	ug/L	50	44.7	89	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502951

Parameter	92502633003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	269	302	108	121	60-140	11				
1,1,1-Trichloroethane	ug/L	ND	250	250	268	297	107	119	60-140	10				
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	252	278	101	111	60-140	10				
1,1,2-Trichloroethane	ug/L	ND	250	250	251	281	100	112	60-140	11				
1,1-Dichloroethane	ug/L	ND	250	250	256	288	102	115	60-140	12				
1,1-Dichloroethene	ug/L	ND	250	250	284	317	114	127	60-140	11				
1,1-Dichloropropene	ug/L	ND	250	250	267	298	107	119	60-140	11				
1,2,3-Trichlorobenzene	ug/L	ND	250	250	301	299	120	120	60-140	1				
1,2,3-Trichloropropane	ug/L	ND	250	250	261	282	105	113	60-140	7				
1,2,4-Trichlorobenzene	ug/L	ND	250	250	303	322	121	129	60-140	6				
1,2,4-Trimethylbenzene	ug/L	1700	250	250	2080	2220	151	208	60-140	7	M1			
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	293	317	117	127	60-140	8				
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	263	292	105	117	60-140	10				
1,2-Dichlorobenzene	ug/L	ND	250	250	275	303	110	121	60-140	10				
1,2-Dichloroethane	ug/L	ND	250	250	225	252	90	101	60-140	11				
1,2-Dichloropropane	ug/L	ND	250	250	260	282	104	113	60-140	8				
1,3,5-Trimethylbenzene	ug/L	ND	250	250	775	843	310	337	60-140	8	M1			
1,3-Dichlorobenzene	ug/L	ND	250	250	276	311	110	124	60-140	12				
1,3-Dichloropropane	ug/L	ND	250	250	263	290	105	116	60-140	10				
1,4-Dichlorobenzene	ug/L	ND	250	250	272	309	109	124	60-140	13				
2,2-Dichloropropane	ug/L	ND	250	250	273	311	109	124	60-140	13				
2-Chlorotoluene	ug/L	ND	250	250	305	361	122	144	60-140	17	M1			
4-Chlorotoluene	ug/L	ND	250	250	266	304	107	122	60-140	13				
Benzene	ug/L	68.5	250	250	328	365	104	119	60-140	11				
Bromobenzene	ug/L	ND	250	250	265	302	106	121	60-140	13				
Bromochloromethane	ug/L	ND	250	250	241	273	97	109	60-140	12				
Bromodichloromethane	ug/L	ND	250	250	252	286	101	114	60-140	13				
Bromoform	ug/L	ND	250	250	252	281	101	112	60-140	11				
Bromomethane	ug/L	ND	250	250	301	336	121	134	60-140	11				
Carbon tetrachloride	ug/L	ND	250	250	269	293	108	117	60-140	8				
Chlorobenzene	ug/L	ND	250	250	267	295	107	118	60-140	10				
Chloroethane	ug/L	ND	250	250	231	255	92	102	60-140	10				
Chloroform	ug/L	ND	250	250	292	324	117	130	60-140	11				
Chloromethane	ug/L	ND	250	250	241	259	96	104	60-140	7				
cis-1,2-Dichloroethene	ug/L	ND	250	250	249	283	100	113	60-140	12				
cis-1,3-Dichloropropene	ug/L	ND	250	250	265	299	106	119	60-140	12				
Dibromochloromethane	ug/L	ND	250	250	275	300	110	120	60-140	9				
Dibromomethane	ug/L	ND	250	250	261	290	105	116	60-140	10				
Dichlorodifluoromethane	ug/L	ND	250	250	232	270	93	108	60-140	15				
Diisopropyl ether	ug/L	ND	250	250	245	278	98	111	60-140	12				
Ethylbenzene	ug/L	1370	250	250	1750	1790	151	168	60-140	2	M1			
Hexachloro-1,3-butadiene	ug/L	ND	250	250	295	299	118	120	60-140	1				
Isopropylbenzene (Cumene)	ug/L	81.8	250	250	374	405	117	129	60-140	8				
m&p-Xylene	ug/L	3640	500	500	4450	4520	162	176	60-140	2	M1			
Methyl-tert-butyl ether	ug/L	ND	250	250	246	277	99	111	60-140	12				
Methylene Chloride	ug/L	ND	250	250	241	269	96	107	60-140	11				

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502951

Parameter	92502633003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
n-Butylbenzene	ug/L	ND	250	250	338	373	135	149	60-140	10	M1			
n-Propylbenzene	ug/L	ND	250	250	510	559	204	224	60-140	9	M1			
Naphthalene	ug/L	304	250	250	633	667	132	145	60-140	5	M1			
o-Xylene	ug/L	1660	250	250	2060	2090	158	172	60-140	2	M1			
sec-Butylbenzene	ug/L	ND	250	250	270	315	108	126	60-140	15				
Styrene	ug/L	ND	250	250	294	321	118	128	60-140	9				
tert-Butylbenzene	ug/L	ND	250	250	243	272	97	109	60-140	11				
Tetrachloroethene	ug/L	ND	250	250	273	294	109	117	60-140	7				
Toluene	ug/L	619	250	250	909	940	116	128	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	250	250	263	296	105	118	60-140	12				
trans-1,3-Dichloropropene	ug/L	ND	250	250	259	290	103	116	60-140	11				
Trichloroethene	ug/L	ND	250	250	267	303	107	121	60-140	13				
Trichlorofluoromethane	ug/L	ND	250	250	250	275	100	110	60-140	10				
Vinyl chloride	ug/L	ND	250	250	236	264	94	106	60-140	12				
1,2-Dichloroethane-d4 (S)	%						100	104	70-130					
4-Bromofluorobenzene (S)	%						100	98	70-130					
Toluene-d8 (S)	%						98	97	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

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QUALIFIERS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502951

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448-Incident
Pace Project No.: 92502951

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92502951001	13926A_HC_RD_20201029	MADEPV	1569272	MADEP VPH	1569272
92502951001	13926A_HC_RD_20201029	EPA 3010A	577134	EPA 6010D	577152
92502951001	13926A_HC_RD_20201029	SM 6200B	576912		

REPORT OF LABORATORY ANALYSIS

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Company: Apex Companies Billing Information: _____
 Address: _____
 Report To: Andrews Street Email To: Andrews.Street@apexcos.com
 Copy To: _____ Site Collection Info/Address: 13926A Huntersville Concord Rd

Customer: Project Name/Number: 2020-11-2448 Incident State: NC County/City: Huntersville Time Zone Collected: _____
 Phone: _____ Site/Facility ID #: _____ Compliance Monitoring? Yes No
 Email: _____ Purchase Order #: _____ DW PWS ID #: _____
 Collected By (Print): Marini Feltz Quote #: _____ DW Location Code: _____
 Collected By (Signature): _____ Turnaround Date Required: _____
 Sample Disposal: _____ Rush: Same Day Next Day Field Filtered (if applicable)
 Archive: _____ 2 Day 3 Day 4 Day 5 Day Yes No
 Hold: _____ Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
<u>13926A-HL-PD-20201029</u>	<u>DW</u>	<u>G</u>	<u>10-29-20</u>	<u>1130</u>				<u>8</u>

LAB USE
MO# : 92502951

 92502951
 Number or
 Page 15 of 15

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses: _____
 Lab Profile/line: _____
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact Y N
 Custody Signatures Present Y N
 Collector Signatures Present Y N
 Bottles Intact Y N
 Correct Bottles Y N
 Sufficient Volume Y N
 Samples Received on Ice Y N
 VOA - Headspace Acceptable Y N
 USDA Regulated Solids Y N
 Samples in Holding Time Y N
 Residual Chlorine Present Y N
 CI Strips: Y N
 Sample pH Acceptable Y N
 pH Strips: Y N
 Sulfide Present Y N
 Lead Acetate Strips: Y N

LAB USE ONLY:
 Lab Sample # / Comments:
92502951
001
 VOCs 6200B
 MADEP VPH
 Lead

Type of Ice Used: Wet Blue Dry None
 Packing Material Used: _____
 Raddchem sample(s) screened (<500 cpm): Y N NA
 Samples received via: FEDEX UPS Client Courier Pace Courier
 Lab Tracking #: 2539054
 SHORT HOLDS PRESENT (<72 hours): Y N/A

Customer Remarks / Special Conditions / Possible Hazards: _____
 Relinquished by/Company: (Signature) _____ Date/Time: _____
 Relinquished by/Company: (Signature) _____ Date/Time: _____
 Relinquished by/Company: (Signature) _____ Date/Time: _____
 Relinquished by/Company: (Signature) _____ Date/Time: _____
 Relinquished by/Company: (Signature) _____ Date/Time: _____
 Relinquished by/Company: (Signature) _____ Date/Time: _____
 Trip Blank Received: Y N/A
 HCL MeOH TSP Other
 Non Conformance(s): YES / MO Page: _____ of: _____

November 06, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448-Incident
Pace Project No.: 92502953

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502953

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448-Incident
Pace Project No.: 92502953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92502953001	14226_HC_RD_20201029	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502953

Sample: 14226_HC_RD_20201029 **Lab ID:** 92502953001 Collected: 10/29/20 13:30 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/01/20 15:36	11/01/20 15:36		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/01/20 15:36	11/01/20 15:36		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/01/20 15:36	11/01/20 15:36	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/01/20 15:36	11/01/20 15:36	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	83.9	%	70.0-130	1	11/01/20 15:36	11/01/20 15:36	615-59-8FID	
2,5-Dibromotoluene (PID)	88.3	%	70.0-130	1	11/01/20 15:36	11/01/20 15:36	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/31/20 01:19	10/31/20 23:22	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/31/20 04:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 04:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 04:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 04:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 04:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 04:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 04:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 04:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 04:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 04:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 04:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 04:33	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/31/20 04:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 04:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 04:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 04:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 04:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 04:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 04:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 04:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 04:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 04:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 04:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 04:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 04:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 04:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 04:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 04:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 04:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 04:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 04:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 04:33	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502953

Sample: 14226_HC_RD_20201029 **Lab ID:** 92502953001 Collected: 10/29/20 13:30 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 04:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 04:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 04:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 04:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 04:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 04:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 04:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 04:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 04:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 04:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 04:33	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 04:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 04:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 04:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 04:33	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 04:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 04:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 04:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 04:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 04:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 04:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 04:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 04:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 04:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 04:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 04:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 04:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 04:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		10/31/20 04:33	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		10/31/20 04:33	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/31/20 04:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502953

QC Batch: 1569272	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92502953001

METHOD BLANK: R3589025-3 Matrix: Water
Associated Lab Samples: 92502953001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/01/20 14:22	
Aliphatic (C09-C12)	ug/L	ND	100	11/01/20 14:22	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/01/20 14:22	
Total VPH	ug/L	ND	100	11/01/20 14:22	
2,5-Dibromotoluene (FID)	%	85.2	70.0-130	11/01/20 14:22	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	11/01/20 14:22	

LABORATORY CONTROL SAMPLE & LCSD: R3589025-1 R3589025-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1110	95.8	92.5	70.0-130	3.54	25	
Aliphatic (C09-C12)	ug/L	1400	1390	1350	99.3	96.4	70.0-130	2.92	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	212	205	106	103	70.0-130	3.36	25	
Total VPH	ug/L	2800	2750	2670	98.2	95.4	70.0-130	2.95	25	
2,5-Dibromotoluene (FID)	%				91.3	92.1	70.0-130			
2,5-Dibromotoluene (PID)	%				99.1	99.9	70.0-130			

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

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502953

QC Batch: 577134	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92502953001

METHOD BLANK: 3054004 Matrix: Water
Associated Lab Samples: 92502953001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/31/20 21:44	

LABORATORY CONTROL SAMPLE: 3054005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	514	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3054006 3054007

Parameter	Units	92501629001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Lead	ug/L	ND	500	486	479	97	95	75-125	1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502953

QC Batch: 576912	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92502953001

METHOD BLANK: 3052937 Matrix: Water

Associated Lab Samples: 92502953001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
2,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
2-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
4-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
Benzene	ug/L	ND	0.50	10/31/20 01:34	
Bromobenzene	ug/L	ND	0.50	10/31/20 01:34	
Bromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromodichloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromoform	ug/L	ND	0.50	10/31/20 01:34	
Bromomethane	ug/L	ND	5.0	10/31/20 01:34	
Carbon tetrachloride	ug/L	ND	0.50	10/31/20 01:34	
Chlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
Chloroethane	ug/L	ND	1.0	10/31/20 01:34	
Chloroform	ug/L	ND	0.50	10/31/20 01:34	
Chloromethane	ug/L	ND	1.0	10/31/20 01:34	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Dibromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Dibromomethane	ug/L	ND	0.50	10/31/20 01:34	
Dichlorodifluoromethane	ug/L	ND	0.50	10/31/20 01:34	
Diisopropyl ether	ug/L	ND	0.50	10/31/20 01:34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502953

METHOD BLANK: 3052937 Matrix: Water
Associated Lab Samples: 92502953001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/31/20 01:34	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/31/20 01:34	
m&p-Xylene	ug/L	ND	1.0	10/31/20 01:34	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/31/20 01:34	
Methylene Chloride	ug/L	ND	2.0	10/31/20 01:34	
n-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
n-Propylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Naphthalene	ug/L	ND	2.0	10/31/20 01:34	
o-Xylene	ug/L	ND	0.50	10/31/20 01:34	
sec-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Styrene	ug/L	ND	0.50	10/31/20 01:34	
tert-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Tetrachloroethene	ug/L	ND	0.50	10/31/20 01:34	
Toluene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Trichloroethene	ug/L	ND	0.50	10/31/20 01:34	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/20 01:34	
Vinyl chloride	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dichloroethane-d4 (S)	%	104	70-130	10/31/20 01:34	
4-Bromofluorobenzene (S)	%	98	70-130	10/31/20 01:34	
Toluene-d8 (S)	%	101	70-130	10/31/20 01:34	

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.0	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethene	ug/L	50	55.0	110	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	52.2	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.2	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	60-140	
1,2-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,2-Dichloroethane	ug/L	50	47.4	95	60-140	
1,2-Dichloropropane	ug/L	50	52.5	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.0	104	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502953

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.6	107	60-140	
1,3-Dichloropropane	ug/L	50	52.5	105	60-140	
1,4-Dichlorobenzene	ug/L	50	53.1	106	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	50.7	101	60-140	
Benzene	ug/L	50	50.7	101	60-140	
Bromobenzene	ug/L	50	50.9	102	60-140	
Bromochloromethane	ug/L	50	52.7	105	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	50.0	100	60-140	
Bromomethane	ug/L	50	47.3	95	60-140	
Carbon tetrachloride	ug/L	50	49.2	98	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.8	102	60-140	
Chloromethane	ug/L	50	43.3	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	53.9	108	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	50.5	101	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	52.1	104	60-140	
Methylene Chloride	ug/L	50	50.0	100	60-140	
n-Butylbenzene	ug/L	50	53.4	107	60-140	
n-Propylbenzene	ug/L	50	51.8	104	60-140	
Naphthalene	ug/L	50	56.7	113	60-140	
o-Xylene	ug/L	50	51.2	102	60-140	
sec-Butylbenzene	ug/L	50	51.8	104	60-140	
Styrene	ug/L	50	52.8	106	60-140	
tert-Butylbenzene	ug/L	50	44.6	89	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	50.6	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	52.2	104	60-140	
Trichlorofluoromethane	ug/L	50	42.2	84	60-140	
Vinyl chloride	ug/L	50	44.7	89	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502953

Parameter	92502633003		MS	MSD	3054399		3054400		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	269	302	108	121	60-140	11			
1,1,1-Trichloroethane	ug/L	ND	250	250	268	297	107	119	60-140	10			
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	252	278	101	111	60-140	10			
1,1,2-Trichloroethane	ug/L	ND	250	250	251	281	100	112	60-140	11			
1,1-Dichloroethane	ug/L	ND	250	250	256	288	102	115	60-140	12			
1,1-Dichloroethene	ug/L	ND	250	250	284	317	114	127	60-140	11			
1,1-Dichloropropene	ug/L	ND	250	250	267	298	107	119	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	250	250	301	299	120	120	60-140	1			
1,2,3-Trichloropropane	ug/L	ND	250	250	261	282	105	113	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	250	250	303	322	121	129	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1700	250	250	2080	2220	151	208	60-140	7	M1		
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	293	317	117	127	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	263	292	105	117	60-140	10			
1,2-Dichlorobenzene	ug/L	ND	250	250	275	303	110	121	60-140	10			
1,2-Dichloroethane	ug/L	ND	250	250	225	252	90	101	60-140	11			
1,2-Dichloropropane	ug/L	ND	250	250	260	282	104	113	60-140	8			
1,3,5-Trimethylbenzene	ug/L	ND	250	250	775	843	310	337	60-140	8	M1		
1,3-Dichlorobenzene	ug/L	ND	250	250	276	311	110	124	60-140	12			
1,3-Dichloropropane	ug/L	ND	250	250	263	290	105	116	60-140	10			
1,4-Dichlorobenzene	ug/L	ND	250	250	272	309	109	124	60-140	13			
2,2-Dichloropropane	ug/L	ND	250	250	273	311	109	124	60-140	13			
2-Chlorotoluene	ug/L	ND	250	250	305	361	122	144	60-140	17	M1		
4-Chlorotoluene	ug/L	ND	250	250	266	304	107	122	60-140	13			
Benzene	ug/L	68.5	250	250	328	365	104	119	60-140	11			
Bromobenzene	ug/L	ND	250	250	265	302	106	121	60-140	13			
Bromochloromethane	ug/L	ND	250	250	241	273	97	109	60-140	12			
Bromodichloromethane	ug/L	ND	250	250	252	286	101	114	60-140	13			
Bromoform	ug/L	ND	250	250	252	281	101	112	60-140	11			
Bromomethane	ug/L	ND	250	250	301	336	121	134	60-140	11			
Carbon tetrachloride	ug/L	ND	250	250	269	293	108	117	60-140	8			
Chlorobenzene	ug/L	ND	250	250	267	295	107	118	60-140	10			
Chloroethane	ug/L	ND	250	250	231	255	92	102	60-140	10			
Chloroform	ug/L	ND	250	250	292	324	117	130	60-140	11			
Chloromethane	ug/L	ND	250	250	241	259	96	104	60-140	7			
cis-1,2-Dichloroethene	ug/L	ND	250	250	249	283	100	113	60-140	12			
cis-1,3-Dichloropropene	ug/L	ND	250	250	265	299	106	119	60-140	12			
Dibromochloromethane	ug/L	ND	250	250	275	300	110	120	60-140	9			
Dibromomethane	ug/L	ND	250	250	261	290	105	116	60-140	10			
Dichlorodifluoromethane	ug/L	ND	250	250	232	270	93	108	60-140	15			
Diisopropyl ether	ug/L	ND	250	250	245	278	98	111	60-140	12			
Ethylbenzene	ug/L	1370	250	250	1750	1790	151	168	60-140	2	M1		
Hexachloro-1,3-butadiene	ug/L	ND	250	250	295	299	118	120	60-140	1			
Isopropylbenzene (Cumene)	ug/L	81.8	250	250	374	405	117	129	60-140	8			
m&p-Xylene	ug/L	3640	500	500	4450	4520	162	176	60-140	2	M1		
Methyl-tert-butyl ether	ug/L	ND	250	250	246	277	99	111	60-140	12			
Methylene Chloride	ug/L	ND	250	250	241	269	96	107	60-140	11			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502953

Parameter	92502633003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	250	250	338	373	135	149	60-140	10	M1			
n-Propylbenzene	ug/L	ND	250	250	510	559	204	224	60-140	9	M1			
Naphthalene	ug/L	304	250	250	633	667	132	145	60-140	5	M1			
o-Xylene	ug/L	1660	250	250	2060	2090	158	172	60-140	2	M1			
sec-Butylbenzene	ug/L	ND	250	250	270	315	108	126	60-140	15				
Styrene	ug/L	ND	250	250	294	321	118	128	60-140	9				
tert-Butylbenzene	ug/L	ND	250	250	243	272	97	109	60-140	11				
Tetrachloroethene	ug/L	ND	250	250	273	294	109	117	60-140	7				
Toluene	ug/L	619	250	250	909	940	116	128	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	250	250	263	296	105	118	60-140	12				
trans-1,3-Dichloropropene	ug/L	ND	250	250	259	290	103	116	60-140	11				
Trichloroethene	ug/L	ND	250	250	267	303	107	121	60-140	13				
Trichlorofluoromethane	ug/L	ND	250	250	250	275	100	110	60-140	10				
Vinyl chloride	ug/L	ND	250	250	236	264	94	106	60-140	12				
1,2-Dichloroethane-d4 (S)	%						100	104	70-130					
4-Bromofluorobenzene (S)	%						100	98	70-130					
Toluene-d8 (S)	%						98	97	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502953

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448-Incident
Pace Project No.: 92502953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92502953001	14226_HC_RD_20201029	MADEPV	1569272	MADEP VPH	1569272
92502953001	14226_HC_RD_20201029	EPA 3010A	577134	EPA 6010D	577152
92502953001	14226_HC_RD_20201029	SM 6200B	576912		

REPORT OF LABORATORY ANALYSIS

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LAB USE

MO# : 92502953

Number or

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apeex Companies Billing Information:

Report To: Andrew Street Email To: Andrew Street ap@paceanalytical.com

Copy To: Andrew Street Site Collection Info/Address: 4226 Huntersville Concord Rd

Customer: Project Name/Number: 2026-L1-2445 Incident State: NC County/City: Huntersville Time Zone Collected: ET

Phone: _____ Site/Facility ID #: _____ Compliance Monitoring? Yes No

Collected By (print): Madoni Fretz Purchase Order #: _____ DW PWS ID #: _____ DW Location Code: _____

Sample Disposal: Madoni Fretz Turnaround Date Required: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SI), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chns
			Date	Time	Date	Time		
<u>4226 HR RD-20261029</u>	<u>DW</u>	<u>G</u>	<u>10-29-20</u>	<u>1330</u>			<u>8</u>	<u>X</u>

92502953

Lab Profile/Line: _____

Lab Sample Receipt Checklist:

Custody Seals Present/Intact: Y N NA

Custody Signatures Present: Y N NA

Collector Signature Present: Y N NA

Bottles Intact: Y N NA

Correct Bottles: Y N NA

Sufficient Volume: Y N NA

Samples Received on Ice: Y N NA

VOA - Headspace Acceptable: Y N NA

USA Regulated Solids: Y N NA

Samples in Holding Time: Y N NA

Residual Chlorine Present: Y N NA

Cl Strips: Y N NA

Sample pH Acceptable: Y N NA

pH Strips: Y N NA

Sulfide Present: Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY:

Lab Sample # / Comments: 9250 2853

Lab Sample #: 201

VOCs 6200 B	
MADEP VPH	
Lead	

Customer Remarks / Special Conditions / Possible Hazards: _____

Type of Ice Used: Wet Blue Dry None

Packing Material Used: _____

Radchem sample(s) screened (<500 cpm): Y N

Received by/Company: (Signature) MDC Pace Date/Time: 10/29/20 1615

Relinquished by/Company: (Signature) Apeex Date/Time: _____

Relinquished by/Company: (Signature) _____ Date/Time: _____

November 06, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448-Incident
Pace Project No.: 92502955

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502955

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
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DOD Certification #: #1461.01
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Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
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Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
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New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448-Incident

Pace Project No.: 92502955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92502955001	13835_AC_RD_20201029	MADEP VPH	BMB	6	PAN
		EPA 6010D	DS	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502955

Sample: 13835_AC_RD_20201029 **Lab ID:** 92502955001 Collected: 10/29/20 15:35 Received: 10/29/20 16:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	11/01/20 16:09	11/01/20 16:09		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/01/20 16:09	11/01/20 16:09		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/01/20 16:09	11/01/20 16:09	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/01/20 16:09	11/01/20 16:09	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.8	%	70.0-130	1	11/01/20 16:09	11/01/20 16:09	615-59-8FID	
2,5-Dibromotoluene (PID)	91.4	%	70.0-130	1	11/01/20 16:09	11/01/20 16:09	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	10/31/20 01:19	10/31/20 23:25	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		10/31/20 04:51	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 04:51	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 04:51	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 04:51	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 04:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 04:51	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 04:51	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 04:51	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 04:51	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 04:51	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 04:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 04:51	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/31/20 04:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 04:51	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 04:51	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 04:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 04:51	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 04:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 04:51	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 04:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 04:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 04:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 04:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 04:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 04:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 04:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 04:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 04:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 04:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 04:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 04:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 04:51	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502955

Sample: 13835_AC_RD_20201029	Lab ID: 92502955001	Collected: 10/29/20 15:35	Received: 10/29/20 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 04:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 04:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 04:51	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 04:51	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 04:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 04:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 04:51	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 04:51	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 04:51	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 04:51	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 04:51	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 04:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 04:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 04:51	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 04:51	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 04:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 04:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 04:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 04:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 04:51	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 04:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 04:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 04:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 04:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 04:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 04:51	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 04:51	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 04:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/31/20 04:51	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/31/20 04:51	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/31/20 04:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502955

QC Batch: 1569272	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92502955001

METHOD BLANK: R3589025-3 Matrix: Water
Associated Lab Samples: 92502955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/01/20 14:22	
Aliphatic (C09-C12)	ug/L	ND	100	11/01/20 14:22	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/01/20 14:22	
Total VPH	ug/L	ND	100	11/01/20 14:22	
2,5-Dibromotoluene (FID)	%	85.2	70.0-130	11/01/20 14:22	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	11/01/20 14:22	

Parameter	Units	R3589025-1		R3589025-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1150	1110	95.8	92.5	70.0-130	3.54	25
Aliphatic (C09-C12)	ug/L	1400	1390	1350	99.3	96.4	70.0-130	2.92	25
Aromatic (C09-C10),Unadjusted	ug/L	200	212	205	106	103	70.0-130	3.36	25
Total VPH	ug/L	2800	2750	2670	98.2	95.4	70.0-130	2.95	25
2,5-Dibromotoluene (FID)	%				91.3	92.1	70.0-130		
2,5-Dibromotoluene (PID)	%				99.1	99.9	70.0-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502955

QC Batch: 577134	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92502955001

METHOD BLANK: 3054004 Matrix: Water

Associated Lab Samples: 92502955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/31/20 21:44	

LABORATORY CONTROL SAMPLE: 3054005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	514	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3054006 3054007

Parameter	Units	92501629001		3054007		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	486	479	97	95	75-125	1

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502955

QC Batch: 576912	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92502955001

METHOD BLANK: 3052937 Matrix: Water

Associated Lab Samples: 92502955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
2,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
2-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
4-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
Benzene	ug/L	ND	0.50	10/31/20 01:34	
Bromobenzene	ug/L	ND	0.50	10/31/20 01:34	
Bromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromodichloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromoform	ug/L	ND	0.50	10/31/20 01:34	
Bromomethane	ug/L	ND	5.0	10/31/20 01:34	
Carbon tetrachloride	ug/L	ND	0.50	10/31/20 01:34	
Chlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
Chloroethane	ug/L	ND	1.0	10/31/20 01:34	
Chloroform	ug/L	ND	0.50	10/31/20 01:34	
Chloromethane	ug/L	ND	1.0	10/31/20 01:34	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Dibromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Dibromomethane	ug/L	ND	0.50	10/31/20 01:34	
Dichlorodifluoromethane	ug/L	ND	0.50	10/31/20 01:34	
Diisopropyl ether	ug/L	ND	0.50	10/31/20 01:34	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502955

METHOD BLANK: 3052937 Matrix: Water
Associated Lab Samples: 92502955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/31/20 01:34	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/31/20 01:34	
m&p-Xylene	ug/L	ND	1.0	10/31/20 01:34	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/31/20 01:34	
Methylene Chloride	ug/L	ND	2.0	10/31/20 01:34	
n-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
n-Propylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Naphthalene	ug/L	ND	2.0	10/31/20 01:34	
o-Xylene	ug/L	ND	0.50	10/31/20 01:34	
sec-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Styrene	ug/L	ND	0.50	10/31/20 01:34	
tert-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Tetrachloroethene	ug/L	ND	0.50	10/31/20 01:34	
Toluene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Trichloroethene	ug/L	ND	0.50	10/31/20 01:34	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/20 01:34	
Vinyl chloride	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dichloroethane-d4 (S)	%	104	70-130	10/31/20 01:34	
4-Bromofluorobenzene (S)	%	98	70-130	10/31/20 01:34	
Toluene-d8 (S)	%	101	70-130	10/31/20 01:34	

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.0	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethene	ug/L	50	55.0	110	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	52.2	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.2	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	60-140	
1,2-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,2-Dichloroethane	ug/L	50	47.4	95	60-140	
1,2-Dichloropropane	ug/L	50	52.5	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.0	104	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502955

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.6	107	60-140	
1,3-Dichloropropane	ug/L	50	52.5	105	60-140	
1,4-Dichlorobenzene	ug/L	50	53.1	106	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	50.7	101	60-140	
Benzene	ug/L	50	50.7	101	60-140	
Bromobenzene	ug/L	50	50.9	102	60-140	
Bromochloromethane	ug/L	50	52.7	105	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	50.0	100	60-140	
Bromomethane	ug/L	50	47.3	95	60-140	
Carbon tetrachloride	ug/L	50	49.2	98	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.8	102	60-140	
Chloromethane	ug/L	50	43.3	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	53.9	108	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	50.5	101	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	52.1	104	60-140	
Methylene Chloride	ug/L	50	50.0	100	60-140	
n-Butylbenzene	ug/L	50	53.4	107	60-140	
n-Propylbenzene	ug/L	50	51.8	104	60-140	
Naphthalene	ug/L	50	56.7	113	60-140	
o-Xylene	ug/L	50	51.2	102	60-140	
sec-Butylbenzene	ug/L	50	51.8	104	60-140	
Styrene	ug/L	50	52.8	106	60-140	
tert-Butylbenzene	ug/L	50	44.6	89	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	50.6	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	52.2	104	60-140	
Trichlorofluoromethane	ug/L	50	42.2	84	60-140	
Vinyl chloride	ug/L	50	44.7	89	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502955

Parameter	92502633003		MS	MSD	3054399		3054400		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	269	302	108	121	60-140	11			
1,1,1-Trichloroethane	ug/L	ND	250	250	268	297	107	119	60-140	10			
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	252	278	101	111	60-140	10			
1,1,2-Trichloroethane	ug/L	ND	250	250	251	281	100	112	60-140	11			
1,1-Dichloroethane	ug/L	ND	250	250	256	288	102	115	60-140	12			
1,1-Dichloroethene	ug/L	ND	250	250	284	317	114	127	60-140	11			
1,1-Dichloropropene	ug/L	ND	250	250	267	298	107	119	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	250	250	301	299	120	120	60-140	1			
1,2,3-Trichloropropane	ug/L	ND	250	250	261	282	105	113	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	250	250	303	322	121	129	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1700	250	250	2080	2220	151	208	60-140	7	M1		
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	293	317	117	127	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	263	292	105	117	60-140	10			
1,2-Dichlorobenzene	ug/L	ND	250	250	275	303	110	121	60-140	10			
1,2-Dichloroethane	ug/L	ND	250	250	225	252	90	101	60-140	11			
1,2-Dichloropropane	ug/L	ND	250	250	260	282	104	113	60-140	8			
1,3,5-Trimethylbenzene	ug/L	ND	250	250	775	843	310	337	60-140	8	M1		
1,3-Dichlorobenzene	ug/L	ND	250	250	276	311	110	124	60-140	12			
1,3-Dichloropropane	ug/L	ND	250	250	263	290	105	116	60-140	10			
1,4-Dichlorobenzene	ug/L	ND	250	250	272	309	109	124	60-140	13			
2,2-Dichloropropane	ug/L	ND	250	250	273	311	109	124	60-140	13			
2-Chlorotoluene	ug/L	ND	250	250	305	361	122	144	60-140	17	M1		
4-Chlorotoluene	ug/L	ND	250	250	266	304	107	122	60-140	13			
Benzene	ug/L	68.5	250	250	328	365	104	119	60-140	11			
Bromobenzene	ug/L	ND	250	250	265	302	106	121	60-140	13			
Bromochloromethane	ug/L	ND	250	250	241	273	97	109	60-140	12			
Bromodichloromethane	ug/L	ND	250	250	252	286	101	114	60-140	13			
Bromoform	ug/L	ND	250	250	252	281	101	112	60-140	11			
Bromomethane	ug/L	ND	250	250	301	336	121	134	60-140	11			
Carbon tetrachloride	ug/L	ND	250	250	269	293	108	117	60-140	8			
Chlorobenzene	ug/L	ND	250	250	267	295	107	118	60-140	10			
Chloroethane	ug/L	ND	250	250	231	255	92	102	60-140	10			
Chloroform	ug/L	ND	250	250	292	324	117	130	60-140	11			
Chloromethane	ug/L	ND	250	250	241	259	96	104	60-140	7			
cis-1,2-Dichloroethene	ug/L	ND	250	250	249	283	100	113	60-140	12			
cis-1,3-Dichloropropene	ug/L	ND	250	250	265	299	106	119	60-140	12			
Dibromochloromethane	ug/L	ND	250	250	275	300	110	120	60-140	9			
Dibromomethane	ug/L	ND	250	250	261	290	105	116	60-140	10			
Dichlorodifluoromethane	ug/L	ND	250	250	232	270	93	108	60-140	15			
Diisopropyl ether	ug/L	ND	250	250	245	278	98	111	60-140	12			
Ethylbenzene	ug/L	1370	250	250	1750	1790	151	168	60-140	2	M1		
Hexachloro-1,3-butadiene	ug/L	ND	250	250	295	299	118	120	60-140	1			
Isopropylbenzene (Cumene)	ug/L	81.8	250	250	374	405	117	129	60-140	8			
m&p-Xylene	ug/L	3640	500	500	4450	4520	162	176	60-140	2	M1		
Methyl-tert-butyl ether	ug/L	ND	250	250	246	277	99	111	60-140	12			
Methylene Chloride	ug/L	ND	250	250	241	269	96	107	60-140	11			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502955

Parameter	92502633003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	250	250	338	373	135	149	60-140	10	M1			
n-Propylbenzene	ug/L	ND	250	250	510	559	204	224	60-140	9	M1			
Naphthalene	ug/L	304	250	250	633	667	132	145	60-140	5	M1			
o-Xylene	ug/L	1660	250	250	2060	2090	158	172	60-140	2	M1			
sec-Butylbenzene	ug/L	ND	250	250	270	315	108	126	60-140	15				
Styrene	ug/L	ND	250	250	294	321	118	128	60-140	9				
tert-Butylbenzene	ug/L	ND	250	250	243	272	97	109	60-140	11				
Tetrachloroethene	ug/L	ND	250	250	273	294	109	117	60-140	7				
Toluene	ug/L	619	250	250	909	940	116	128	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	250	250	263	296	105	118	60-140	12				
trans-1,3-Dichloropropene	ug/L	ND	250	250	259	290	103	116	60-140	11				
Trichloroethene	ug/L	ND	250	250	267	303	107	121	60-140	13				
Trichlorofluoromethane	ug/L	ND	250	250	250	275	100	110	60-140	10				
Vinyl chloride	ug/L	ND	250	250	236	264	94	106	60-140	12				
1,2-Dichloroethane-d4 (S)	%						100	104	70-130					
4-Bromofluorobenzene (S)	%						100	98	70-130					
Toluene-d8 (S)	%						98	97	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502955

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448-Incident

Pace Project No.: 92502955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92502955001	13835_AC_RD_20201029	MADEPV	1569272	MADEP VPH	1569272
92502955001	13835_AC_RD_20201029	EPA 3010A	577134	EPA 6010D	577152
92502955001	13835_AC_RD_20201029	SM 6200B	576912		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE

WO# : 92502955

umber or

Company: Apex Companies
 Address: _____

Billing information:

Report To: Andrew Street
 Copy To: _____
 Email To: Andrew.Street@apexcos.com
 Site Collection Info/Address: 13835 Ashbury Chapel Road
 State: _____ County/City: NC / Murfreesville
 Time Zone Collected: _____
 [] PT [] MT [] CT [] ET

Customer Project Name/Number: 2020-L1-2448 Incident
 Site/Facility ID #: _____
 Phone: _____ Email: _____
 Collected By (print): Naomi Fritz
 Purchase Order #: _____ Quote #: _____
 Turnaround Date Required: ASAP
 Rush: _____
 [] Same Day [] Next Day
 [] 2 Day [] 3 Day [] 4 Day [] 5 Day
 (Expedite Charges Apply)

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End	Res Cl	# of Ctns
			Date	Time			
<u>B335-AC-RD-2020-1029</u>	<u>DW</u>	<u>G</u>	<u>10-27-20</u>	<u>1535</u>			<u>8</u>

Type of Ice Used: Wet Blue Dry None
 Packing Material Used: _____

Radiation sample(s) screened (<500 cpm): Y N MA
 Relinquished by/Company: (Signature) Naomi Fritz / Apex
 Date/Time: 10-29-20 1615
 Relinquished by/Company: (Signature) _____
 Date/Time: _____
 Relinquished by/Company: (Signature) _____
 Date/Time: _____

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Lab Profile/Line:	Lab Sample Receipt Checklist:
<u>UKS 62008</u>		Custody Seals Present/Intact Y <u>(N)</u> NA Custody Signatures Present Y <u>(N)</u> NA Collector Signature Present Y <u>(N)</u> NA Bottles Intact Y <u>(N)</u> NA Correct Bottles Y <u>(N)</u> NA Sufficient Volume Y <u>(N)</u> NA Samples Received on Ice Y <u>(N)</u> NA VOA - Headspace Acceptable Y <u>(N)</u> NA USDA Regulated Soils Y <u>(N)</u> NA Samples in Holding Time Y <u>(N)</u> NA Residual Chlorine Present Y <u>(N)</u> NA Cl Strips: Y <u>(N)</u> NA Sample pH Acceptable Y <u>(N)</u> NA pH Strips: Y <u>(N)</u> NA Sulfide Present Y <u>(N)</u> NA Lead Acetate Strips: Y <u>(N)</u> NA
<u>MADDP VPL</u>		LAB USE ONLY: Lab Sample # / Comments: <u>92502955</u>
<u>Lead</u>		<u>Cell</u>

Lab Sample Temperature Info:
 Temp Blank Received: Y (N) NA
 Therm ID#: 92502955
 Cooler 1 Temp Upon Receipt: 21 °C
 Cooler 1 Therm Corr. Factor: 0 °C
 Cooler 1 Corrected Temp: 21 °C
 Comments: _____
 Trip Blank Received: Y (N) NA
 HCL MeOH TSP Other
 Non Conformance(s): _____
 YES / NO of: _____

Lab Tracking #:	MTJL LAB USE ONLY
<u>2538994</u>	
Samples received via: FEDEX UPS <u>(Client)</u> Courier Pace Courier	
Date/Time: <u>10/29/20 16:15</u>	Table #: Actctnum: Template: Prelogin: PM: PB:
Date/Time:	
Date/Time:	
Date/Time:	

November 04, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448-Incident
Pace Project No.: 92502957

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on October 29, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies
Alex Testoff, Montrose-EPS

Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502957

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92502957001	FB-1	MADEP VPH	BMB	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92502957002	DUP-1	MADEP VPH	BMB	6	PAN
		EPA 6010D	RDT	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92502957003	TRIP BLANK	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

Sample: FB-1	Lab ID: 92502957001	Collected: 10/29/20 00:00	Received: 10/29/20 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/01/20 16:42	11/01/20 16:42		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/01/20 16:42	11/01/20 16:42		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/01/20 16:42	11/01/20 16:42	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/01/20 16:42	11/01/20 16:42	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.4	%	70.0-130	1	11/01/20 16:42	11/01/20 16:42	615-59-8FID	
2,5-Dibromotoluene (PID)	94.6	%	70.0-130	1	11/01/20 16:42	11/01/20 16:42	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/31/20 01:19	11/02/20 00:16	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/31/20 01:52	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 01:52	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 01:52	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 01:52	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 01:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 01:52	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 01:52	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 01:52	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 01:52	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 01:52	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 01:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 01:52	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/31/20 01:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 01:52	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 01:52	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 01:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 01:52	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 01:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 01:52	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 01:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 01:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 01:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 01:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 01:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 01:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 01:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 01:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 01:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 01:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 01:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 01:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 01:52	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502957

Sample: FB-1	Lab ID: 92502957001	Collected: 10/29/20 00:00	Received: 10/29/20 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 01:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 01:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 01:52	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 01:52	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 01:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 01:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 01:52	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 01:52	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 01:52	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 01:52	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 01:52	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 01:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 01:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 01:52	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 01:52	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 01:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 01:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 01:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 01:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 01:52	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 01:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 01:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 01:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 01:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 01:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 01:52	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 01:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 01:52	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/31/20 01:52	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		10/31/20 01:52	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/31/20 01:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

Sample: DUP-1	Lab ID: 92502957002	Collected: 10/29/20 00:00	Received: 10/29/20 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/01/20 17:15	11/01/20 17:15		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/01/20 17:15	11/01/20 17:15		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/01/20 17:15	11/01/20 17:15	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/01/20 17:15	11/01/20 17:15	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.5	%	70.0-130	1	11/01/20 17:15	11/01/20 17:15	615-59-8FID	
2,5-Dibromotoluene (PID)	93.0	%	70.0-130	1	11/01/20 17:15	11/01/20 17:15	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/31/20 01:19	11/02/20 00:19	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/31/20 05:09	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 05:09	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 05:09	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 05:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 05:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 05:09	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 05:09	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 05:09	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 05:09	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 05:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 05:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 05:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/31/20 05:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 05:09	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 05:09	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 05:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 05:09	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 05:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 05:09	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 05:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 05:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 05:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 05:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 05:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 05:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 05:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 05:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 05:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 05:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 05:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 05:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 05:09	594-20-7	

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

Sample: DUP-1	Lab ID: 92502957002	Collected: 10/29/20 00:00	Received: 10/29/20 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 05:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 05:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 05:09	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 05:09	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 05:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 05:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 05:09	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 05:09	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 05:09	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 05:09	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 05:09	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 05:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 05:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 05:09	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 05:09	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 05:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 05:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 05:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 05:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 05:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 05:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 05:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 05:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 05:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 05:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 05:09	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 05:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 05:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/31/20 05:09	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/31/20 05:09	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/31/20 05:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

Sample: TRIP BLANK	Lab ID: 92502957003	Collected: 10/29/20 00:00	Received: 10/29/20 16:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/31/20 02:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/31/20 02:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/31/20 02:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/31/20 02:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/31/20 02:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/31/20 02:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/31/20 02:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/31/20 02:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/31/20 02:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/31/20 02:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/31/20 02:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/31/20 02:10	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/31/20 02:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/31/20 02:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 02:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/31/20 02:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/31/20 02:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/31/20 02:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/31/20 02:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/31/20 02:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 02:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 02:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/31/20 02:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/31/20 02:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/31/20 02:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/31/20 02:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/31/20 02:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 02:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/31/20 02:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 02:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/31/20 02:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/31/20 02:10	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/31/20 02:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 02:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/31/20 02:10	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/31/20 02:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/31/20 02:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/31/20 02:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/31/20 02:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/31/20 02:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/31/20 02:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/31/20 02:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/31/20 02:10	103-65-1	
Styrene	ND	ug/L	0.50	1		10/31/20 02:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 02:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/31/20 02:10	79-34-5	

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ANALYTICAL RESULTS

Project: 2020-LI-2448-Incident
Pace Project No.: 92502957

Sample: TRIP BLANK		Lab ID: 92502957003	Collected: 10/29/20 00:00	Received: 10/29/20 16:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/31/20 02:10	127-18-4	
Toluene	ND	ug/L	0.50	1		10/31/20 02:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 02:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/31/20 02:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/31/20 02:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/31/20 02:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/31/20 02:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/31/20 02:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/31/20 02:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 02:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/31/20 02:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/31/20 02:10	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/31/20 02:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/31/20 02:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/31/20 02:10	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		10/31/20 02:10	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/31/20 02:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

QC Batch: 1569272

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92502957001, 92502957002

METHOD BLANK: R3589025-3

Matrix: Water

Associated Lab Samples: 92502957001, 92502957002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/01/20 14:22	
Aliphatic (C09-C12)	ug/L	ND	100	11/01/20 14:22	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/01/20 14:22	
Total VPH	ug/L	ND	100	11/01/20 14:22	
2,5-Dibromotoluene (FID)	%	85.2	70.0-130	11/01/20 14:22	
2,5-Dibromotoluene (PID)	%	89.1	70.0-130	11/01/20 14:22	

LABORATORY CONTROL SAMPLE & LCSD: R3589025-1 R3589025-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1110	95.8	92.5	70.0-130	3.54	25	
Aliphatic (C09-C12)	ug/L	1400	1390	1350	99.3	96.4	70.0-130	2.92	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	212	205	106	103	70.0-130	3.36	25	
Total VPH	ug/L	2800	2750	2670	98.2	95.4	70.0-130	2.95	25	
2,5-Dibromotoluene (FID)	%				91.3	92.1	70.0-130			
2,5-Dibromotoluene (PID)	%				99.1	99.9	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502957

QC Batch: 577134 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92502957001, 92502957002

METHOD BLANK: 3054004 Matrix: Water
Associated Lab Samples: 92502957001, 92502957002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/31/20 21:44	

LABORATORY CONTROL SAMPLE: 3054005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	514	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3054006 3054007

Parameter	Units	92501629001		3054007		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	486	479	97	95	75-125	1

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502957

QC Batch: 576912 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92502957001, 92502957002, 92502957003

METHOD BLANK: 3052937 Matrix: Water

Associated Lab Samples: 92502957001, 92502957002, 92502957003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
1,1-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/31/20 01:34	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloroethane	ug/L	ND	0.50	10/31/20 01:34	
1,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
1,3-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
2,2-Dichloropropane	ug/L	ND	0.50	10/31/20 01:34	
2-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
4-Chlorotoluene	ug/L	ND	0.50	10/31/20 01:34	
Benzene	ug/L	ND	0.50	10/31/20 01:34	
Bromobenzene	ug/L	ND	0.50	10/31/20 01:34	
Bromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromodichloromethane	ug/L	ND	0.50	10/31/20 01:34	
Bromoform	ug/L	ND	0.50	10/31/20 01:34	
Bromomethane	ug/L	ND	5.0	10/31/20 01:34	
Carbon tetrachloride	ug/L	ND	0.50	10/31/20 01:34	
Chlorobenzene	ug/L	ND	0.50	10/31/20 01:34	
Chloroethane	ug/L	ND	1.0	10/31/20 01:34	
Chloroform	ug/L	ND	0.50	10/31/20 01:34	
Chloromethane	ug/L	ND	1.0	10/31/20 01:34	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Dibromochloromethane	ug/L	ND	0.50	10/31/20 01:34	
Dibromomethane	ug/L	ND	0.50	10/31/20 01:34	
Dichlorodifluoromethane	ug/L	ND	0.50	10/31/20 01:34	
Diisopropyl ether	ug/L	ND	0.50	10/31/20 01:34	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident
Pace Project No.: 92502957

METHOD BLANK: 3052937 Matrix: Water
Associated Lab Samples: 92502957001, 92502957002, 92502957003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/31/20 01:34	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/31/20 01:34	
m&p-Xylene	ug/L	ND	1.0	10/31/20 01:34	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/31/20 01:34	
Methylene Chloride	ug/L	ND	2.0	10/31/20 01:34	
n-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
n-Propylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Naphthalene	ug/L	ND	2.0	10/31/20 01:34	
o-Xylene	ug/L	ND	0.50	10/31/20 01:34	
sec-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Styrene	ug/L	ND	0.50	10/31/20 01:34	
tert-Butylbenzene	ug/L	ND	0.50	10/31/20 01:34	
Tetrachloroethene	ug/L	ND	0.50	10/31/20 01:34	
Toluene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/31/20 01:34	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/31/20 01:34	
Trichloroethene	ug/L	ND	0.50	10/31/20 01:34	
Trichlorofluoromethane	ug/L	ND	1.0	10/31/20 01:34	
Vinyl chloride	ug/L	ND	1.0	10/31/20 01:34	
1,2-Dichloroethane-d4 (S)	%	104	70-130	10/31/20 01:34	
4-Bromofluorobenzene (S)	%	98	70-130	10/31/20 01:34	
Toluene-d8 (S)	%	101	70-130	10/31/20 01:34	

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.2	104	60-140	
1,1,1-Trichloroethane	ug/L	50	52.0	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.0	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethane	ug/L	50	51.9	104	60-140	
1,1-Dichloroethene	ug/L	50	55.0	110	60-140	
1,1-Dichloropropene	ug/L	50	51.5	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	54.0	108	60-140	
1,2,3-Trichloropropane	ug/L	50	52.2	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.2	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.9	106	60-140	
1,2-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,2-Dichloroethane	ug/L	50	47.4	95	60-140	
1,2-Dichloropropane	ug/L	50	52.5	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	52.0	104	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

LABORATORY CONTROL SAMPLE: 3052938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.6	107	60-140	
1,3-Dichloropropane	ug/L	50	52.5	105	60-140	
1,4-Dichlorobenzene	ug/L	50	53.1	106	60-140	
2,2-Dichloropropane	ug/L	50	49.6	99	60-140	
2-Chlorotoluene	ug/L	50	53.2	106	60-140	
4-Chlorotoluene	ug/L	50	50.7	101	60-140	
Benzene	ug/L	50	50.7	101	60-140	
Bromobenzene	ug/L	50	50.9	102	60-140	
Bromochloromethane	ug/L	50	52.7	105	60-140	
Bromodichloromethane	ug/L	50	50.8	102	60-140	
Bromoform	ug/L	50	50.0	100	60-140	
Bromomethane	ug/L	50	47.3	95	60-140	
Carbon tetrachloride	ug/L	50	49.2	98	60-140	
Chlorobenzene	ug/L	50	50.9	102	60-140	
Chloroethane	ug/L	50	38.9	78	60-140	
Chloroform	ug/L	50	50.8	102	60-140	
Chloromethane	ug/L	50	43.3	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	50.5	101	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.7	105	60-140	
Dibromochloromethane	ug/L	50	54.1	108	60-140	
Dibromomethane	ug/L	50	53.9	108	60-140	
Dichlorodifluoromethane	ug/L	50	45.8	92	60-140	
Diisopropyl ether	ug/L	50	50.5	101	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.8	98	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	60-140	
m&p-Xylene	ug/L	100	102	102	60-140	
Methyl-tert-butyl ether	ug/L	50	52.1	104	60-140	
Methylene Chloride	ug/L	50	50.0	100	60-140	
n-Butylbenzene	ug/L	50	53.4	107	60-140	
n-Propylbenzene	ug/L	50	51.8	104	60-140	
Naphthalene	ug/L	50	56.7	113	60-140	
o-Xylene	ug/L	50	51.2	102	60-140	
sec-Butylbenzene	ug/L	50	51.8	104	60-140	
Styrene	ug/L	50	52.8	106	60-140	
tert-Butylbenzene	ug/L	50	44.6	89	60-140	
Tetrachloroethene	ug/L	50	50.9	102	60-140	
Toluene	ug/L	50	50.6	101	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.9	106	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	52.2	104	60-140	
Trichlorofluoromethane	ug/L	50	42.2	84	60-140	
Vinyl chloride	ug/L	50	44.7	89	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

Parameter	92502633003		MS	MSD	3054399		3054400		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	250	250	269	302	108	121	60-140	11			
1,1,1-Trichloroethane	ug/L	ND	250	250	268	297	107	119	60-140	10			
1,1,2,2-Tetrachloroethane	ug/L	ND	250	250	252	278	101	111	60-140	10			
1,1,2-Trichloroethane	ug/L	ND	250	250	251	281	100	112	60-140	11			
1,1-Dichloroethane	ug/L	ND	250	250	256	288	102	115	60-140	12			
1,1-Dichloroethene	ug/L	ND	250	250	284	317	114	127	60-140	11			
1,1-Dichloropropene	ug/L	ND	250	250	267	298	107	119	60-140	11			
1,2,3-Trichlorobenzene	ug/L	ND	250	250	301	299	120	120	60-140	1			
1,2,3-Trichloropropane	ug/L	ND	250	250	261	282	105	113	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	250	250	303	322	121	129	60-140	6			
1,2,4-Trimethylbenzene	ug/L	1700	250	250	2080	2220	151	208	60-140	7	M1		
1,2-Dibromo-3-chloropropane	ug/L	ND	250	250	293	317	117	127	60-140	8			
1,2-Dibromoethane (EDB)	ug/L	ND	250	250	263	292	105	117	60-140	10			
1,2-Dichlorobenzene	ug/L	ND	250	250	275	303	110	121	60-140	10			
1,2-Dichloroethane	ug/L	ND	250	250	225	252	90	101	60-140	11			
1,2-Dichloropropane	ug/L	ND	250	250	260	282	104	113	60-140	8			
1,3,5-Trimethylbenzene	ug/L	ND	250	250	775	843	310	337	60-140	8	M1		
1,3-Dichlorobenzene	ug/L	ND	250	250	276	311	110	124	60-140	12			
1,3-Dichloropropane	ug/L	ND	250	250	263	290	105	116	60-140	10			
1,4-Dichlorobenzene	ug/L	ND	250	250	272	309	109	124	60-140	13			
2,2-Dichloropropane	ug/L	ND	250	250	273	311	109	124	60-140	13			
2-Chlorotoluene	ug/L	ND	250	250	305	361	122	144	60-140	17	M1		
4-Chlorotoluene	ug/L	ND	250	250	266	304	107	122	60-140	13			
Benzene	ug/L	68.5	250	250	328	365	104	119	60-140	11			
Bromobenzene	ug/L	ND	250	250	265	302	106	121	60-140	13			
Bromochloromethane	ug/L	ND	250	250	241	273	97	109	60-140	12			
Bromodichloromethane	ug/L	ND	250	250	252	286	101	114	60-140	13			
Bromoform	ug/L	ND	250	250	252	281	101	112	60-140	11			
Bromomethane	ug/L	ND	250	250	301	336	121	134	60-140	11			
Carbon tetrachloride	ug/L	ND	250	250	269	293	108	117	60-140	8			
Chlorobenzene	ug/L	ND	250	250	267	295	107	118	60-140	10			
Chloroethane	ug/L	ND	250	250	231	255	92	102	60-140	10			
Chloroform	ug/L	ND	250	250	292	324	117	130	60-140	11			
Chloromethane	ug/L	ND	250	250	241	259	96	104	60-140	7			
cis-1,2-Dichloroethene	ug/L	ND	250	250	249	283	100	113	60-140	12			
cis-1,3-Dichloropropene	ug/L	ND	250	250	265	299	106	119	60-140	12			
Dibromochloromethane	ug/L	ND	250	250	275	300	110	120	60-140	9			
Dibromomethane	ug/L	ND	250	250	261	290	105	116	60-140	10			
Dichlorodifluoromethane	ug/L	ND	250	250	232	270	93	108	60-140	15			
Diisopropyl ether	ug/L	ND	250	250	245	278	98	111	60-140	12			
Ethylbenzene	ug/L	1370	250	250	1750	1790	151	168	60-140	2	M1		
Hexachloro-1,3-butadiene	ug/L	ND	250	250	295	299	118	120	60-140	1			
Isopropylbenzene (Cumene)	ug/L	81.8	250	250	374	405	117	129	60-140	8			
m&p-Xylene	ug/L	3640	500	500	4450	4520	162	176	60-140	2	M1		
Methyl-tert-butyl ether	ug/L	ND	250	250	246	277	99	111	60-140	12			
Methylene Chloride	ug/L	ND	250	250	241	269	96	107	60-140	11			

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QUALITY CONTROL DATA

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

Parameter	92502633003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
n-Butylbenzene	ug/L	ND	250	250	338	373	135	149	60-140	10	M1			
n-Propylbenzene	ug/L	ND	250	250	510	559	204	224	60-140	9	M1			
Naphthalene	ug/L	304	250	250	633	667	132	145	60-140	5	M1			
o-Xylene	ug/L	1660	250	250	2060	2090	158	172	60-140	2	M1			
sec-Butylbenzene	ug/L	ND	250	250	270	315	108	126	60-140	15				
Styrene	ug/L	ND	250	250	294	321	118	128	60-140	9				
tert-Butylbenzene	ug/L	ND	250	250	243	272	97	109	60-140	11				
Tetrachloroethene	ug/L	ND	250	250	273	294	109	117	60-140	7				
Toluene	ug/L	619	250	250	909	940	116	128	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	250	250	263	296	105	118	60-140	12				
trans-1,3-Dichloropropene	ug/L	ND	250	250	259	290	103	116	60-140	11				
Trichloroethene	ug/L	ND	250	250	267	303	107	121	60-140	13				
Trichlorofluoromethane	ug/L	ND	250	250	250	275	100	110	60-140	10				
Vinyl chloride	ug/L	ND	250	250	236	264	94	106	60-140	12				
1,2-Dichloroethane-d4 (S)	%						100	104	70-130					
4-Bromofluorobenzene (S)	%						100	98	70-130					
Toluene-d8 (S)	%						98	97	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

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QUALIFIERS

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448-Incident

Pace Project No.: 92502957

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92502957001	FB-1	MADEPV	1569272	MADEP VPH	1569272
92502957002	DUP-1	MADEPV	1569272	MADEP VPH	1569272
92502957001	FB-1	EPA 3010A	577134	EPA 6010D	577152
92502957002	DUP-1	EPA 3010A	577134	EPA 6010D	577152
92502957001	FB-1	SM 6200B	576912		
92502957002	DUP-1	SM 6200B	576912		
92502957003	TRIP BLANK	SM 6200B	576912		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **Apex Companies**

Billing Information:

Report To: **Andrew Street**

Copy To: **Andrew Street**

Email To: **Andrew.Street@apex.com**

LAB USE

W0# : 92502957



92502957

Number or

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Project Name/Number: **2020-11-2448 Incident**

State: **NC** County/City: **Huntersville** Time Zone Collected: **ET**

Site/Facility ID #: **NC11111111**

Compliance Monitoring? Yes No

Collected By (print): **Naomi Fritz**

Purchase Order #: **ASAP**

Turnaround Date Required: **ASAP**

DW PWS ID #: **ASAP**

Sample Disposal: Same Day Next Day 2 Day 3 Day 4 Day 5 Day

Field Filtered (if applicable): Yes No

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analysis: **VOCs 6200B**

Customer Sample ID: **Trip Blank**

MADEP VPH

Matrix * **OT**

Lead

Comp / Grab **OT**

Res Cl # of Chms **2**

Date **10/29/20**

Composite End Date Time

OT

X

OT

X

DW-1

X

DW

X

G

X

G

X

G

X

G

X

G

X

G

X

G

X

G

X

G

X

G

X

G

X

SHORT HOLDS PRESENT (<72 hours): **Y** **CA** **N/A**

Lab Tracking #: **2539053**

Lab Sample Temperature Info:

Temp Blank Received: **Y** **NA**

Term ID#: **22761**

Cooler 1 Temp Upon Receipt: **21.1** **OC**

Cooler 1 Therm Corr. Factor: **0** **OC**

Cooler 1 Corrected Temp: **21.1** **OC**

Comments:

Lab Sample ONLY: **92502857**

Lab Sample # / Comments: **001 003**

Lab Profile/line: **001 003**

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: **Wgt** **Blue** **Dry** **None**

Packing Material Used:

Raddchem sample(s) screened (<500 ppm): **Y** **N** **NA**

Samples received via: **client**

FEDEX **UPS** **MTJL LAB USE ONLY**

Courier **Page Courier**

Table #: **MTJL LAB USE ONLY**

Accnum: **MTJL LAB USE ONLY**

Template: **MTJL LAB USE ONLY**

Prelagin: **MTJL LAB USE ONLY**

Non Conformance(s): **YES / NO**

Page: **1** of **1**

Relinquished by/Company: (Signature) **Naomi Fritz** **1 Apex** **10/29/20** **16:15** **MTJL Lab** **10/29/20** **16:15**

Relinquished by/Company: (Signature) **MTJL Lab** **10/29/20** **16:15**

Relinquished by/Company: (Signature) **MTJL Lab** **10/29/20** **16:15**

November 09, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92504280

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Cameron Lee, Montrose-EPS
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies

Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92504280

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92504280

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92504280001	13945_AC_RD_20201105	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504280

Sample: 13945_AC_RD_20201105	Lab ID: 92504280001	Collected: 11/05/20 11:05	Received: 11/05/20 15:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/08/20 07:33	11/08/20 07:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/08/20 07:33	11/08/20 07:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/08/20 07:33	11/08/20 07:33	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/08/20 07:33	11/08/20 07:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.2	%	70.0-130	1	11/08/20 07:33	11/08/20 07:33	615-59-8FID	
2,5-Dibromotoluene (PID)	91.0	%	70.0-130	1	11/08/20 07:33	11/08/20 07:33	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	11/06/20 02:22	11/07/20 01:48	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		11/06/20 15:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 15:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 15:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 15:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 15:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 15:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 15:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 15:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 15:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 15:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 15:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 15:10	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/06/20 15:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 15:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 15:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 15:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 15:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 15:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 15:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 15:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 15:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 15:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 15:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 15:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 15:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 15:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 15:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 15:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 15:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 15:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 15:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 15:10	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504280

Sample: 13945_AC_RD_20201105 **Lab ID:** 92504280001 Collected: 11/05/20 11:05 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 15:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 15:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 15:10	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 15:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 15:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 15:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 15:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 15:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 15:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 15:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 15:10	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 15:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 15:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 15:10	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 15:10	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 15:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 15:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 15:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 15:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 15:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 15:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 15:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 15:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 15:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 15:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 15:10	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 15:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 15:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		11/06/20 15:10	17060-07-0	
4-Bromofluorobenzene (S)	99	%	70-130	1		11/06/20 15:10	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/06/20 15:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504280

QC Batch: 1572862	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92504280001

METHOD BLANK: R3590775-3 Matrix: Water
Associated Lab Samples: 92504280001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/08/20 03:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/08/20 03:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/08/20 03:08	
Total VPH	ug/L	ND	100	11/08/20 03:08	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	11/08/20 03:08	
2,5-Dibromotoluene (PID)	%	84.4	70.0-130	11/08/20 03:08	

Parameter	Units	R3590775-1		R3590775-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1100	1110	91.7	92.5	70.0-130	0.905	25
Aliphatic (C09-C12)	ug/L	1400	1180	1190	84.3	85.0	70.0-130	0.844	25
Aromatic (C09-C10),Unadjusted	ug/L	200	170	171	85.0	85.5	70.0-130	0.587	25
Total VPH	ug/L	2800	2450	2470	87.5	88.2	70.0-130	0.813	25
2,5-Dibromotoluene (FID)	%				90.7	93.1	70.0-130		
2,5-Dibromotoluene (PID)	%				91.6	93.9	70.0-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504280

QC Batch: 578431	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92504280001

METHOD BLANK: 3060405 Matrix: Water

Associated Lab Samples: 92504280001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/07/20 01:40	

LABORATORY CONTROL SAMPLE: 3060406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	515	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060407 3060408

Parameter	Units	92504280001		3060408		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	ND	500	500	519	521	103	104	75-125	0

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504280

QC Batch: 578537 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92504280001

METHOD BLANK: 3060816 Matrix: Water
Associated Lab Samples: 92504280001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
2,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
2-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
4-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
Benzene	ug/L	ND	0.50	11/06/20 12:11	
Bromobenzene	ug/L	ND	0.50	11/06/20 12:11	
Bromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromodichloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromoform	ug/L	ND	0.50	11/06/20 12:11	
Bromomethane	ug/L	ND	5.0	11/06/20 12:11	
Carbon tetrachloride	ug/L	ND	0.50	11/06/20 12:11	
Chlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
Chloroethane	ug/L	ND	1.0	11/06/20 12:11	
Chloroform	ug/L	ND	0.50	11/06/20 12:11	
Chloromethane	ug/L	ND	1.0	11/06/20 12:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Dibromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Dibromomethane	ug/L	ND	0.50	11/06/20 12:11	
Dichlorodifluoromethane	ug/L	ND	0.50	11/06/20 12:11	
Diisopropyl ether	ug/L	ND	0.50	11/06/20 12:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504280

METHOD BLANK: 3060816

Matrix: Water

Associated Lab Samples: 92504280001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/06/20 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/06/20 12:11	
m&p-Xylene	ug/L	ND	1.0	11/06/20 12:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/06/20 12:11	
Methylene Chloride	ug/L	ND	2.0	11/06/20 12:11	
n-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
n-Propylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Naphthalene	ug/L	ND	2.0	11/06/20 12:11	
o-Xylene	ug/L	ND	0.50	11/06/20 12:11	
sec-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Styrene	ug/L	ND	0.50	11/06/20 12:11	
tert-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Tetrachloroethene	ug/L	ND	0.50	11/06/20 12:11	
Toluene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Trichloroethene	ug/L	ND	0.50	11/06/20 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/20 12:11	
Vinyl chloride	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/06/20 12:11	
4-Bromofluorobenzene (S)	%	96	70-130	11/06/20 12:11	
Toluene-d8 (S)	%	100	70-130	11/06/20 12:11	

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	60-140	
1,1,2-Trichloroethane	ug/L	50	48.6	97	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	52.0	104	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.5	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	50.4	101	60-140	
1,2-Dichloroethane	ug/L	50	43.5	87	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504280

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,3-Dichloropropane	ug/L	50	50.9	102	60-140	
1,4-Dichlorobenzene	ug/L	50	50.8	102	60-140	
2,2-Dichloropropane	ug/L	50	49.9	100	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.5	99	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	48.3	97	60-140	
Bromochloromethane	ug/L	50	48.0	96	60-140	
Bromodichloromethane	ug/L	50	46.8	94	60-140	
Bromoform	ug/L	50	47.8	96	60-140	
Bromomethane	ug/L	50	54.1	108	60-140	
Carbon tetrachloride	ug/L	50	46.8	94	60-140	
Chlorobenzene	ug/L	50	49.4	99	60-140	
Chloroethane	ug/L	50	38.8	78	60-140	
Chloroform	ug/L	50	47.4	95	60-140	
Chloromethane	ug/L	50	41.0	82	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	51.3	103	60-140	
Dibromomethane	ug/L	50	50.2	100	60-140	
Dichlorodifluoromethane	ug/L	50	45.9	92	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	48.8	98	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.3	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	47.2	94	60-140	
Methylene Chloride	ug/L	50	45.7	91	60-140	
n-Butylbenzene	ug/L	50	52.7	105	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	54.3	109	60-140	
o-Xylene	ug/L	50	50.0	100	60-140	
sec-Butylbenzene	ug/L	50	50.4	101	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	49.8	100	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.7	97	60-140	
Trichlorofluoromethane	ug/L	50	41.7	83	60-140	
Vinyl chloride	ug/L	50	44.0	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504280

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	438	442	109	111	60-140	1				
1,1,1-Trichloroethane	ug/L	ND	400	400	438	450	110	113	60-140	3				
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	402	415	101	104	60-140	3				
1,1,2-Trichloroethane	ug/L	ND	400	400	415	424	104	106	60-140	2				
1,1-Dichloroethane	ug/L	ND	400	400	433	438	108	110	60-140	1				
1,1-Dichloroethene	ug/L	ND	400	400	489	494	122	124	60-140	1				
1,1-Dichloropropene	ug/L	ND	400	400	438	446	110	112	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	400	400	373	427	93	107	60-140	14				
1,2,3-Trichloropropane	ug/L	ND	400	400	402	418	101	105	60-140	4				
1,2,4-Trichlorobenzene	ug/L	ND	400	400	406	449	102	112	60-140	10				
1,2,4-Trimethylbenzene	ug/L	957	400	400	1390	1480	109	130	60-140	6				
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	411	447	103	112	60-140	8				
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	428	433	107	108	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	400	400	418	436	105	109	60-140	4				
1,2-Dichloroethane	ug/L	ND	400	400	393	392	97	96	60-140	0				
1,2-Dichloropropane	ug/L	ND	400	400	427	452	107	113	60-140	6				
1,3,5-Trimethylbenzene	ug/L	ND	400	400	504	514	126	129	60-140	2				
1,3-Dichlorobenzene	ug/L	ND	400	400	429	439	107	110	60-140	2				
1,3-Dichloropropane	ug/L	ND	400	400	436	437	109	109	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	400	400	424	443	106	111	60-140	4				
2,2-Dichloropropane	ug/L	ND	400	400	408	416	102	104	60-140	2				
2-Chlorotoluene	ug/L	ND	400	400	465	463	116	116	60-140	0				
4-Chlorotoluene	ug/L	ND	400	400	436	442	109	111	60-140	2				
Benzene	ug/L	2900	400	400	3300	3600	100	175	60-140	9	M1			
Bromobenzene	ug/L	ND	400	400	427	435	107	109	60-140	2				
Bromochloromethane	ug/L	ND	400	400	415	415	104	104	60-140	0				
Bromodichloromethane	ug/L	ND	400	400	415	432	104	108	60-140	4				
Bromoform	ug/L	ND	400	400	376	394	94	99	60-140	5				
Bromomethane	ug/L	ND	400	400	384	462	96	115	60-140	18				
Carbon tetrachloride	ug/L	ND	400	400	422	437	105	109	60-140	3				
Chlorobenzene	ug/L	ND	400	400	444	447	111	112	60-140	1				
Chloroethane	ug/L	ND	400	400	401	408	100	102	60-140	2				
Chloroform	ug/L	ND	400	400	428	432	107	108	60-140	1				
Chloromethane	ug/L	ND	400	400	360	382	90	96	60-140	6				
cis-1,2-Dichloroethene	ug/L	ND	400	400	424	431	106	108	60-140	1				
cis-1,3-Dichloropropene	ug/L	ND	400	400	429	435	107	109	60-140	1				
Dibromochloromethane	ug/L	ND	400	400	430	448	108	112	60-140	4				
Dibromomethane	ug/L	ND	400	400	432	452	108	113	60-140	5				
Dichlorodifluoromethane	ug/L	ND	400	400	409	412	102	103	60-140	1				
Diisopropyl ether	ug/L	ND	400	400	407	406	102	102	60-140	0				
Ethylbenzene	ug/L	1140	400	400	1600	1690	115	137	60-140	5				
Hexachloro-1,3-butadiene	ug/L	ND	400	400	398	434	100	108	60-140	9				
Isopropylbenzene (Cumene)	ug/L	41.4	400	400	507	515	116	118	60-140	2				
m&p-Xylene	ug/L	444	800	800	1330	1380	110	117	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	400	400	410	418	103	105	60-140	2				
Methylene Chloride	ug/L	ND	400	400	424	431	106	108	60-140	2				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504280

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	443	467	111	117	60-140	5				
n-Propylbenzene	ug/L	123	400	400	571	597	112	118	60-140	4				
Naphthalene	ug/L	392	400	400	740	814	87	105	60-140	10				
o-Xylene	ug/L	85.6	400	400	532	535	112	112	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	460	473	115	118	60-140	3				
Styrene	ug/L	ND	400	400	436	442	109	110	60-140	1				
tert-Butylbenzene	ug/L	ND	400	400	391	403	98	101	60-140	3				
Tetrachloroethene	ug/L	ND	400	400	455	468	114	117	60-140	3				
Toluene	ug/L	133	400	400	561	579	107	112	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	400	400	442	449	110	112	60-140	2				
trans-1,3-Dichloropropene	ug/L	ND	400	400	410	422	103	105	60-140	3				
Trichloroethene	ug/L	ND	400	400	443	452	111	113	60-140	2				
Trichlorofluoromethane	ug/L	ND	400	400	416	420	104	105	60-140	1				
Vinyl chloride	ug/L	ND	400	400	400	412	100	103	60-140	3				
1,2-Dichloroethane-d4 (S)	%						102	102	70-130					
4-Bromofluorobenzene (S)	%						99	98	70-130					
Toluene-d8 (S)	%						98	98	70-130					

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504280

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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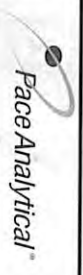
QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92504280

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92504280001	13945_AC_RD_20201105	MADEPV	1572862	MADEP VPH	1572862
92504280001	13945_AC_RD_20201105	EPA 3010A	578431	EPA 6010D	578452
92504280001	13945_AC_RD_20201105	SM 6200B	578537		

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Address: Apex Street

Report To: Andrew Street

Email To: Andrew.Street@ApexCos.com

Customer Project Name/Number: 2020-11-Incident

Site Collection Info/Address: 13915 Ashbury Chapel Rd

Phone: 2020-11-Incident

State: NC County/City: Thurstonville Time Zone Collected: ET

Collected By (print): Naomi Fretz

Purchase Order #: ASAP

Sample Disposal: Return

Compliance Monitoring? Yes

Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Matrix * DIB Comp / Grab S Collected (or Composite Start) Date 11/17/20 Time 11:05 Composite End Date 11/17/20 Time 11:05 Res Cl NA # of Ctns 8

Customer Sample ID: 13915 NC PD20201105

Turnaround Date Required: ASAP

Matrix * DIB

Compliance Monitoring? Yes

Matrix * DIB

Compliance Monitoring? Yes

Matrix * DIB

Compliance Monitoring? Yes

Matrix * DIB

Compliance Monitoring? Yes

Matrix * DIB

Compliance Monitoring? Yes

Matrix * DIB

Compliance Monitoring? Yes

Matrix * DIB

Compliance Monitoring? Yes

LAB NO#: **92504280**

Container: 1

Lab Project ID/Manager: LY

**Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

<u>UOLs 6200B</u>	<u>MADEP VPH</u>	<u>Lead</u>
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Lab Profile/line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact: Y NA

Custody Signatures Present: Y NA

Collector Signatures Present: Y NA

Bottles Intact: Y NA

Correct Bottles: Y NA

Sufficient Volume: Y NA

Samples Received on Ice: Y NA

VOA - Headspace Acceptable: Y NA

USDA Regulated Soils: Y NA

Samples in Holding Time: Y NA

Residual Chlorine Present: Y NA

Cl Strips: Y NA

Sample pH Acceptable: Y NA

pH Strips: Y NA

Sulfide Present: Y NA

Lead Acetate Strips: Y NA

LAB USE ONLY: 92504280

Lab Sample # / Comments: 001

Type of Ice Used: Wet Blue Dry None

Packing Material Used: Wet

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y NA

Lab Tracking #: 2560544

Samples received via: client FEDEX UPS Courier

Lab Sample Temperature Info:

Temp Blank Received: Y NA

Therm ID#: 817667

Cooler 1 Temp Upon Receipt: 3.1 OC

Cooler 1 Therm Corr. Factor: 0 OC

Cooler 1 Corrected Temp: 3.1 OC

Comments:

Relinquished by/Company: (Signature) Naomi Fretz Apex Date/Time: 11-5-20 1530

Received by/Company: (Signature) Tracy Date/Time: 11-5-20 1537

Table #: MTL LAB USE ONLY

MTL LAB USE ONLY

Relinquished by/Company: (Signature) Naomi Fretz Apex Date/Time: 11-5-20 1530

Received by/Company: (Signature) Tracy Date/Time: 11-5-20 1537

Trip Blank Received: Y NA

HCL MeOH TSP Other

Relinquished by/Company: (Signature) Naomi Fretz Apex Date/Time: 11-5-20 1530

Received by/Company: (Signature) Tracy Date/Time: 11-5-20 1537

Non Conformance(s): YES / NO Page: 1 of: 1

November 09, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92504283

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Cameron Lee, Montrose-EPS
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies

Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92504283

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92504283

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92504283001	13835_AC_RD_20201105	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92504283

Sample: 13835_AC_RD_20201105	Lab ID: 92504283001	Collected: 11/05/20 11:35	Received: 11/05/20 15:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/08/20 11:58	11/08/20 11:58		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/08/20 11:58	11/08/20 11:58		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/08/20 11:58	11/08/20 11:58	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/08/20 11:58	11/08/20 11:58	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.1	%	70.0-130	1	11/08/20 11:58	11/08/20 11:58	615-59-8FID	
2,5-Dibromotoluene (PID)	90.6	%	70.0-130	1	11/08/20 11:58	11/08/20 11:58	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	11/06/20 02:22	11/07/20 02:17	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		11/06/20 15:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 15:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 15:28	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 15:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 15:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 15:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 15:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 15:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 15:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 15:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 15:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 15:28	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/06/20 15:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 15:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 15:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 15:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 15:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 15:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 15:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 15:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 15:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 15:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 15:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 15:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 15:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 15:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 15:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 15:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 15:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 15:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 15:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 15:28	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92504283

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: 13835_AC_RD_20201105		Lab ID: 92504283001		Collected: 11/05/20 11:35	Received: 11/05/20 15:30	Matrix: Water		
6200B MSV Analytical Method: SM 6200B Pace Analytical Services - Charlotte								
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 15:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 15:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 15:28	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 15:28	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 15:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 15:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 15:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 15:28	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 15:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 15:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 15:28	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 15:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 15:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 15:28	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 15:28	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 15:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 15:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 15:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 15:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 15:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 15:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 15:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 15:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 15:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 15:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 15:28	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 15:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 15:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/06/20 15:28	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		11/06/20 15:28	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/06/20 15:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504283

QC Batch: 1572862

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92504283001

METHOD BLANK: R3590775-3

Matrix: Water

Associated Lab Samples: 92504283001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/08/20 03:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/08/20 03:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/08/20 03:08	
Total VPH	ug/L	ND	100	11/08/20 03:08	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	11/08/20 03:08	
2,5-Dibromotoluene (PID)	%	84.4	70.0-130	11/08/20 03:08	

LABORATORY CONTROL SAMPLE & LCSD: R3590775-1

R3590775-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1100	1110	91.7	92.5	70.0-130	0.905	25	
Aliphatic (C09-C12)	ug/L	1400	1180	1190	84.3	85.0	70.0-130	0.844	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	170	171	85.0	85.5	70.0-130	0.587	25	
Total VPH	ug/L	2800	2450	2470	87.5	88.2	70.0-130	0.813	25	
2,5-Dibromotoluene (FID)	%				90.7	93.1	70.0-130			
2,5-Dibromotoluene (PID)	%				91.6	93.9	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92504283

QC Batch: 578431	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92504283001

METHOD BLANK: 3060405 Matrix: Water
Associated Lab Samples: 92504283001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/07/20 01:40	

LABORATORY CONTROL SAMPLE: 3060406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	515	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060407 3060408

Parameter	Units	92504280001 Result	MS		MSD		% Rec		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Lead	ug/L	ND	500	500	519	521	103	104	75-125	0	

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92504283

QC Batch: 578537	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92504283001

METHOD BLANK: 3060816 Matrix: Water

Associated Lab Samples: 92504283001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
2,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
2-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
4-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
Benzene	ug/L	ND	0.50	11/06/20 12:11	
Bromobenzene	ug/L	ND	0.50	11/06/20 12:11	
Bromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromodichloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromoform	ug/L	ND	0.50	11/06/20 12:11	
Bromomethane	ug/L	ND	5.0	11/06/20 12:11	
Carbon tetrachloride	ug/L	ND	0.50	11/06/20 12:11	
Chlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
Chloroethane	ug/L	ND	1.0	11/06/20 12:11	
Chloroform	ug/L	ND	0.50	11/06/20 12:11	
Chloromethane	ug/L	ND	1.0	11/06/20 12:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Dibromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Dibromomethane	ug/L	ND	0.50	11/06/20 12:11	
Dichlorodifluoromethane	ug/L	ND	0.50	11/06/20 12:11	
Diisopropyl ether	ug/L	ND	0.50	11/06/20 12:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504283

METHOD BLANK: 3060816

Matrix: Water

Associated Lab Samples: 92504283001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/06/20 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/06/20 12:11	
m&p-Xylene	ug/L	ND	1.0	11/06/20 12:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/06/20 12:11	
Methylene Chloride	ug/L	ND	2.0	11/06/20 12:11	
n-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
n-Propylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Naphthalene	ug/L	ND	2.0	11/06/20 12:11	
o-Xylene	ug/L	ND	0.50	11/06/20 12:11	
sec-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Styrene	ug/L	ND	0.50	11/06/20 12:11	
tert-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Tetrachloroethene	ug/L	ND	0.50	11/06/20 12:11	
Toluene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Trichloroethene	ug/L	ND	0.50	11/06/20 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/20 12:11	
Vinyl chloride	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/06/20 12:11	
4-Bromofluorobenzene (S)	%	96	70-130	11/06/20 12:11	
Toluene-d8 (S)	%	100	70-130	11/06/20 12:11	

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	60-140	
1,1,2-Trichloroethane	ug/L	50	48.6	97	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	52.0	104	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.5	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	50.4	101	60-140	
1,2-Dichloroethane	ug/L	50	43.5	87	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504283

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,3-Dichloropropane	ug/L	50	50.9	102	60-140	
1,4-Dichlorobenzene	ug/L	50	50.8	102	60-140	
2,2-Dichloropropane	ug/L	50	49.9	100	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.5	99	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	48.3	97	60-140	
Bromochloromethane	ug/L	50	48.0	96	60-140	
Bromodichloromethane	ug/L	50	46.8	94	60-140	
Bromoform	ug/L	50	47.8	96	60-140	
Bromomethane	ug/L	50	54.1	108	60-140	
Carbon tetrachloride	ug/L	50	46.8	94	60-140	
Chlorobenzene	ug/L	50	49.4	99	60-140	
Chloroethane	ug/L	50	38.8	78	60-140	
Chloroform	ug/L	50	47.4	95	60-140	
Chloromethane	ug/L	50	41.0	82	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	51.3	103	60-140	
Dibromomethane	ug/L	50	50.2	100	60-140	
Dichlorodifluoromethane	ug/L	50	45.9	92	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	48.8	98	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.3	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	47.2	94	60-140	
Methylene Chloride	ug/L	50	45.7	91	60-140	
n-Butylbenzene	ug/L	50	52.7	105	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	54.3	109	60-140	
o-Xylene	ug/L	50	50.0	100	60-140	
sec-Butylbenzene	ug/L	50	50.4	101	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	49.8	100	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.7	97	60-140	
Trichlorofluoromethane	ug/L	50	41.7	83	60-140	
Vinyl chloride	ug/L	50	44.0	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504283

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060818 3060819											
Parameter	Units	92502947003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	438	442	109	111	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	400	400	438	450	110	113	60-140	3	
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	402	415	101	104	60-140	3	
1,1,2-Trichloroethane	ug/L	ND	400	400	415	424	104	106	60-140	2	
1,1-Dichloroethane	ug/L	ND	400	400	433	438	108	110	60-140	1	
1,1-Dichloroethene	ug/L	ND	400	400	489	494	122	124	60-140	1	
1,1-Dichloropropene	ug/L	ND	400	400	438	446	110	112	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	400	400	373	427	93	107	60-140	14	
1,2,3-Trichloropropane	ug/L	ND	400	400	402	418	101	105	60-140	4	
1,2,4-Trichlorobenzene	ug/L	ND	400	400	406	449	102	112	60-140	10	
1,2,4-Trimethylbenzene	ug/L	957	400	400	1390	1480	109	130	60-140	6	
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	411	447	103	112	60-140	8	
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	428	433	107	108	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	400	400	418	436	105	109	60-140	4	
1,2-Dichloroethane	ug/L	ND	400	400	393	392	97	96	60-140	0	
1,2-Dichloropropane	ug/L	ND	400	400	427	452	107	113	60-140	6	
1,3,5-Trimethylbenzene	ug/L	ND	400	400	504	514	126	129	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	400	400	429	439	107	110	60-140	2	
1,3-Dichloropropane	ug/L	ND	400	400	436	437	109	109	60-140	0	
1,4-Dichlorobenzene	ug/L	ND	400	400	424	443	106	111	60-140	4	
2,2-Dichloropropane	ug/L	ND	400	400	408	416	102	104	60-140	2	
2-Chlorotoluene	ug/L	ND	400	400	465	463	116	116	60-140	0	
4-Chlorotoluene	ug/L	ND	400	400	436	442	109	111	60-140	2	
Benzene	ug/L	2900	400	400	3300	3600	100	175	60-140	9	M1
Bromobenzene	ug/L	ND	400	400	427	435	107	109	60-140	2	
Bromochloromethane	ug/L	ND	400	400	415	415	104	104	60-140	0	
Bromodichloromethane	ug/L	ND	400	400	415	432	104	108	60-140	4	
Bromoform	ug/L	ND	400	400	376	394	94	99	60-140	5	
Bromomethane	ug/L	ND	400	400	384	462	96	115	60-140	18	
Carbon tetrachloride	ug/L	ND	400	400	422	437	105	109	60-140	3	
Chlorobenzene	ug/L	ND	400	400	444	447	111	112	60-140	1	
Chloroethane	ug/L	ND	400	400	401	408	100	102	60-140	2	
Chloroform	ug/L	ND	400	400	428	432	107	108	60-140	1	
Chloromethane	ug/L	ND	400	400	360	382	90	96	60-140	6	
cis-1,2-Dichloroethene	ug/L	ND	400	400	424	431	106	108	60-140	1	
cis-1,3-Dichloropropene	ug/L	ND	400	400	429	435	107	109	60-140	1	
Dibromochloromethane	ug/L	ND	400	400	430	448	108	112	60-140	4	
Dibromomethane	ug/L	ND	400	400	432	452	108	113	60-140	5	
Dichlorodifluoromethane	ug/L	ND	400	400	409	412	102	103	60-140	1	
Diisopropyl ether	ug/L	ND	400	400	407	406	102	102	60-140	0	
Ethylbenzene	ug/L	1140	400	400	1600	1690	115	137	60-140	5	
Hexachloro-1,3-butadiene	ug/L	ND	400	400	398	434	100	108	60-140	9	
Isopropylbenzene (Cumene)	ug/L	41.4	400	400	507	515	116	118	60-140	2	
m&p-Xylene	ug/L	444	800	800	1330	1380	110	117	60-140	4	
Methyl-tert-butyl ether	ug/L	ND	400	400	410	418	103	105	60-140	2	
Methylene Chloride	ug/L	ND	400	400	424	431	106	108	60-140	2	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504283

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	443	467	111	117	60-140	5				
n-Propylbenzene	ug/L	123	400	400	571	597	112	118	60-140	4				
Naphthalene	ug/L	392	400	400	740	814	87	105	60-140	10				
o-Xylene	ug/L	85.6	400	400	532	535	112	112	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	460	473	115	118	60-140	3				
Styrene	ug/L	ND	400	400	436	442	109	110	60-140	1				
tert-Butylbenzene	ug/L	ND	400	400	391	403	98	101	60-140	3				
Tetrachloroethene	ug/L	ND	400	400	455	468	114	117	60-140	3				
Toluene	ug/L	133	400	400	561	579	107	112	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	400	400	442	449	110	112	60-140	2				
trans-1,3-Dichloropropene	ug/L	ND	400	400	410	422	103	105	60-140	3				
Trichloroethene	ug/L	ND	400	400	443	452	111	113	60-140	2				
Trichlorofluoromethane	ug/L	ND	400	400	416	420	104	105	60-140	1				
Vinyl chloride	ug/L	ND	400	400	400	412	100	103	60-140	3				
1,2-Dichloroethane-d4 (S)	%						102	102	70-130					
4-Bromofluorobenzene (S)	%						99	98	70-130					
Toluene-d8 (S)	%						98	98	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92504283

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92504283

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92504283001	13835_AC_RD_20201105	MADEPV	1572862	MADEP VPH	1572862
92504283001	13835_AC_RD_20201105	EPA 3010A	578431	EPA 6010D	578452
92504283001	13835_AC_RD_20201105	SM 6200B	578537		

REPORT OF LABORATORY ANALYSIS

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November 11, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92504284

Dear Andrew Street:

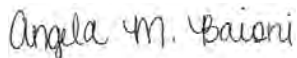
Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Cameron Lee, Montrose-EPS
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies

Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-L1-2448 Incident
Pace Project No.: 92504284

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident
Pace Project No.: 92504284

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92504284001	13926B_HC_RD_20201105	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet
PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92504284

Sample: 13926B_HC_RD_20201105 **Lab ID:** 92504284001 Collected: 11/05/20 13:25 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/09/20 21:08	11/09/20 21:08		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/09/20 21:08	11/09/20 21:08		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/09/20 21:08	11/09/20 21:08	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/09/20 21:08	11/09/20 21:08	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.4	%	70.0-130	1	11/09/20 21:08	11/09/20 21:08	615-59-8FID	
2,5-Dibromotoluene (PID)	99.4	%	70.0-130	1	11/09/20 21:08	11/09/20 21:08	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	11/06/20 02:22	11/07/20 02:21	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		11/06/20 15:46	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 15:46	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 15:46	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 15:46	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 15:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 15:46	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 15:46	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 15:46	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 15:46	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 15:46	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 15:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 15:46	75-00-3	
Chloroform	9.2	ug/L	0.50	1		11/06/20 15:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 15:46	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 15:46	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 15:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 15:46	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 15:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 15:46	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 15:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 15:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 15:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 15:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 15:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 15:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 15:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 15:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 15:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 15:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 15:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 15:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 15:46	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92504284

Sample: 13926B_HC_RD_20201105 **Lab ID:** 92504284001 Collected: 11/05/20 13:25 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 15:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 15:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 15:46	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 15:46	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 15:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 15:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 15:46	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 15:46	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 15:46	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 15:46	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 15:46	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 15:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 15:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 15:46	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 15:46	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 15:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 15:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 15:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 15:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 15:46	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 15:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 15:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 15:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 15:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 15:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 15:46	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 15:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 15:46	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/06/20 15:46	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		11/06/20 15:46	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		11/06/20 15:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504284

QC Batch: 1573558

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92504284001

METHOD BLANK: R3591333-3

Matrix: Water

Associated Lab Samples: 92504284001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/09/20 19:31	
Aliphatic (C09-C12)	ug/L	ND	100	11/09/20 19:31	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/09/20 19:31	
Total VPH	ug/L	ND	100	11/09/20 19:31	
2,5-Dibromotoluene (FID)	%	88.3	70.0-130	11/09/20 19:31	
2,5-Dibromotoluene (PID)	%	94.3	70.0-130	11/09/20 19:31	

LABORATORY CONTROL SAMPLE & LCSD: R3591333-1 R3591333-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1150	1150	95.8	95.8	70.0-130	0.00	25	
Aliphatic (C09-C12)	ug/L	1400	1360	1340	97.1	95.7	70.0-130	1.48	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	184	180	92.0	90.0	70.0-130	2.20	25	
Total VPH	ug/L	2800	2690	2670	96.1	95.4	70.0-130	0.746	25	
2,5-Dibromotoluene (FID)	%				94.3	95.3	70.0-130			
2,5-Dibromotoluene (PID)	%				93.8	95.2	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92504284

QC Batch: 578431	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92504284001

METHOD BLANK: 3060405 Matrix: Water
Associated Lab Samples: 92504284001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/07/20 01:40	

LABORATORY CONTROL SAMPLE: 3060406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	515	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060407 3060408

Parameter	Units	92504280001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Lead	ug/L	ND	500	519	521	103	104	75-125	0				

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504284

QC Batch: 578537

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92504284001

METHOD BLANK: 3060816

Matrix: Water

Associated Lab Samples: 92504284001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
2,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
2-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
4-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
Benzene	ug/L	ND	0.50	11/06/20 12:11	
Bromobenzene	ug/L	ND	0.50	11/06/20 12:11	
Bromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromodichloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromoform	ug/L	ND	0.50	11/06/20 12:11	
Bromomethane	ug/L	ND	5.0	11/06/20 12:11	
Carbon tetrachloride	ug/L	ND	0.50	11/06/20 12:11	
Chlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
Chloroethane	ug/L	ND	1.0	11/06/20 12:11	
Chloroform	ug/L	ND	0.50	11/06/20 12:11	
Chloromethane	ug/L	ND	1.0	11/06/20 12:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Dibromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Dibromomethane	ug/L	ND	0.50	11/06/20 12:11	
Dichlorodifluoromethane	ug/L	ND	0.50	11/06/20 12:11	
Diisopropyl ether	ug/L	ND	0.50	11/06/20 12:11	

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92504284

METHOD BLANK: 3060816 Matrix: Water
Associated Lab Samples: 92504284001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/06/20 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/06/20 12:11	
m&p-Xylene	ug/L	ND	1.0	11/06/20 12:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/06/20 12:11	
Methylene Chloride	ug/L	ND	2.0	11/06/20 12:11	
n-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
n-Propylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Naphthalene	ug/L	ND	2.0	11/06/20 12:11	
o-Xylene	ug/L	ND	0.50	11/06/20 12:11	
sec-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Styrene	ug/L	ND	0.50	11/06/20 12:11	
tert-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Tetrachloroethene	ug/L	ND	0.50	11/06/20 12:11	
Toluene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Trichloroethene	ug/L	ND	0.50	11/06/20 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/20 12:11	
Vinyl chloride	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/06/20 12:11	
4-Bromofluorobenzene (S)	%	96	70-130	11/06/20 12:11	
Toluene-d8 (S)	%	100	70-130	11/06/20 12:11	

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	60-140	
1,1,2-Trichloroethane	ug/L	50	48.6	97	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	52.0	104	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.5	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	50.4	101	60-140	
1,2-Dichloroethane	ug/L	50	43.5	87	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504284

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,3-Dichloropropane	ug/L	50	50.9	102	60-140	
1,4-Dichlorobenzene	ug/L	50	50.8	102	60-140	
2,2-Dichloropropane	ug/L	50	49.9	100	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.5	99	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	48.3	97	60-140	
Bromochloromethane	ug/L	50	48.0	96	60-140	
Bromodichloromethane	ug/L	50	46.8	94	60-140	
Bromoform	ug/L	50	47.8	96	60-140	
Bromomethane	ug/L	50	54.1	108	60-140	
Carbon tetrachloride	ug/L	50	46.8	94	60-140	
Chlorobenzene	ug/L	50	49.4	99	60-140	
Chloroethane	ug/L	50	38.8	78	60-140	
Chloroform	ug/L	50	47.4	95	60-140	
Chloromethane	ug/L	50	41.0	82	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	51.3	103	60-140	
Dibromomethane	ug/L	50	50.2	100	60-140	
Dichlorodifluoromethane	ug/L	50	45.9	92	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	48.8	98	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.3	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	47.2	94	60-140	
Methylene Chloride	ug/L	50	45.7	91	60-140	
n-Butylbenzene	ug/L	50	52.7	105	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	54.3	109	60-140	
o-Xylene	ug/L	50	50.0	100	60-140	
sec-Butylbenzene	ug/L	50	50.4	101	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	49.8	100	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.7	97	60-140	
Trichlorofluoromethane	ug/L	50	41.7	83	60-140	
Vinyl chloride	ug/L	50	44.0	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504284

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	438	442	109	111	60-140	1				
1,1,1-Trichloroethane	ug/L	ND	400	400	438	450	110	113	60-140	3				
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	402	415	101	104	60-140	3				
1,1,2-Trichloroethane	ug/L	ND	400	400	415	424	104	106	60-140	2				
1,1-Dichloroethane	ug/L	ND	400	400	433	438	108	110	60-140	1				
1,1-Dichloroethene	ug/L	ND	400	400	489	494	122	124	60-140	1				
1,1-Dichloropropene	ug/L	ND	400	400	438	446	110	112	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	400	400	373	427	93	107	60-140	14				
1,2,3-Trichloropropane	ug/L	ND	400	400	402	418	101	105	60-140	4				
1,2,4-Trichlorobenzene	ug/L	ND	400	400	406	449	102	112	60-140	10				
1,2,4-Trimethylbenzene	ug/L	957	400	400	1390	1480	109	130	60-140	6				
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	411	447	103	112	60-140	8				
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	428	433	107	108	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	400	400	418	436	105	109	60-140	4				
1,2-Dichloroethane	ug/L	ND	400	400	393	392	97	96	60-140	0				
1,2-Dichloropropane	ug/L	ND	400	400	427	452	107	113	60-140	6				
1,3,5-Trimethylbenzene	ug/L	ND	400	400	504	514	126	129	60-140	2				
1,3-Dichlorobenzene	ug/L	ND	400	400	429	439	107	110	60-140	2				
1,3-Dichloropropane	ug/L	ND	400	400	436	437	109	109	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	400	400	424	443	106	111	60-140	4				
2,2-Dichloropropane	ug/L	ND	400	400	408	416	102	104	60-140	2				
2-Chlorotoluene	ug/L	ND	400	400	465	463	116	116	60-140	0				
4-Chlorotoluene	ug/L	ND	400	400	436	442	109	111	60-140	2				
Benzene	ug/L	2900	400	400	3300	3600	100	175	60-140	9 M1				
Bromobenzene	ug/L	ND	400	400	427	435	107	109	60-140	2				
Bromochloromethane	ug/L	ND	400	400	415	415	104	104	60-140	0				
Bromodichloromethane	ug/L	ND	400	400	415	432	104	108	60-140	4				
Bromoform	ug/L	ND	400	400	376	394	94	99	60-140	5				
Bromomethane	ug/L	ND	400	400	384	462	96	115	60-140	18				
Carbon tetrachloride	ug/L	ND	400	400	422	437	105	109	60-140	3				
Chlorobenzene	ug/L	ND	400	400	444	447	111	112	60-140	1				
Chloroethane	ug/L	ND	400	400	401	408	100	102	60-140	2				
Chloroform	ug/L	ND	400	400	428	432	107	108	60-140	1				
Chloromethane	ug/L	ND	400	400	360	382	90	96	60-140	6				
cis-1,2-Dichloroethene	ug/L	ND	400	400	424	431	106	108	60-140	1				
cis-1,3-Dichloropropene	ug/L	ND	400	400	429	435	107	109	60-140	1				
Dibromochloromethane	ug/L	ND	400	400	430	448	108	112	60-140	4				
Dibromomethane	ug/L	ND	400	400	432	452	108	113	60-140	5				
Dichlorodifluoromethane	ug/L	ND	400	400	409	412	102	103	60-140	1				
Diisopropyl ether	ug/L	ND	400	400	407	406	102	102	60-140	0				
Ethylbenzene	ug/L	1140	400	400	1600	1690	115	137	60-140	5				
Hexachloro-1,3-butadiene	ug/L	ND	400	400	398	434	100	108	60-140	9				
Isopropylbenzene (Cumene)	ug/L	41.4	400	400	507	515	116	118	60-140	2				
m&p-Xylene	ug/L	444	800	800	1330	1380	110	117	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	400	400	410	418	103	105	60-140	2				
Methylene Chloride	ug/L	ND	400	400	424	431	106	108	60-140	2				

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

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504284

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	443	467	111	117	60-140	5				
n-Propylbenzene	ug/L	123	400	400	571	597	112	118	60-140	4				
Naphthalene	ug/L	392	400	400	740	814	87	105	60-140	10				
o-Xylene	ug/L	85.6	400	400	532	535	112	112	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	460	473	115	118	60-140	3				
Styrene	ug/L	ND	400	400	436	442	109	110	60-140	1				
tert-Butylbenzene	ug/L	ND	400	400	391	403	98	101	60-140	3				
Tetrachloroethene	ug/L	ND	400	400	455	468	114	117	60-140	3				
Toluene	ug/L	133	400	400	561	579	107	112	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	400	400	442	449	110	112	60-140	2				
trans-1,3-Dichloropropene	ug/L	ND	400	400	410	422	103	105	60-140	3				
Trichloroethene	ug/L	ND	400	400	443	452	111	113	60-140	2				
Trichlorofluoromethane	ug/L	ND	400	400	416	420	104	105	60-140	1				
Vinyl chloride	ug/L	ND	400	400	400	412	100	103	60-140	3				
1,2-Dichloroethane-d4 (S)	%						102	102	70-130					
4-Bromofluorobenzene (S)	%						99	98	70-130					
Toluene-d8 (S)	%						98	98	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

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QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92504284

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

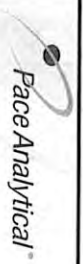
Project: 2020-L1-2448 Incident

Pace Project No.: 92504284

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92504284001	13926B_HC_RD_20201105	MADEPV	1573558	MADEP VPH	1573558
92504284001	13926B_HC_RD_20201105	EPA 3010A	578431	EPA 6010D	578452
92504284001	13926B_HC_RD_20201105	SM 6200B	578537		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB NO#: 92504284



SR Number or

Company: Apex Companies

Billing Information:

Container Preservative Type **

Lab Project Manager: Y

Report To: Andrew Street

Email To: Andrew.Street@apexcs.com

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Copy To: Andrew Street

Site Collection Info/Address: 13926B Hunttsville Concord

Analyses

Lab Profile/line: Lab Sample Receipt Checklist:

Customer Project Name/Number: 2020-11-1448 Incident

State: NC County/City: Hunttsville Time Zone Collected: 11 PT 11 MT 11 CT 11 ET

Lab Sample Receipt Checklist:

Phone: Site/Facility ID #:

Compliance Monitoring? Yes No

Custody Seals Present/Intact Y N NA

Collected By (print): Naomi Ketz

Purchase Order #: Quote #:

Custody Signatures Present Y N NA

Collected By (signature): Naomi Ketz

Turnaround Date Required: Immediately Packed on Ice: Yes No

Collector Signatures Present Y N NA

Sample Disposal: Dispose as appropriate Return

Rush: Same Day Next Day 2 Day 3 Day 4 Day 5 Day

Bottles Intact Y N NA

Archives: Hold

Field Filtered (if applicable): Yes No

Correct Bottles Y N NA

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analysis: _____

Sufficient Volume Y N NA

Customer Sample ID: 13926B-ILC-PD2020105

Matrix * DWS Comp / Grab G Date 11-5-20 1325

VOCS 6200B

MADEP VPH

Customer Sample ID: _____

Composite End Date Time

Lead

Customer Sample ID: _____

Res CI # of Ctns

2560524

Customer Sample ID: _____

Res CI # of Ctns

92504284

Customer Sample ID: _____

Res CI # of Ctns

001

Customer Sample ID: _____

Res CI # of Ctns

Customer Sample ID: _____

Res CI # of Ctns

Customer Sample ID: _____

Res CI # of Ctns

Customer Sample ID: _____

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Res CI # of Ctns

Customer Sample ID: _____

Res CI # of Ctns

Customer Sample ID: _____

Res CI # of Ctns

Customer Sample ID: _____

Res CI # of Ctns

Customer Sample ID: _____

Res CI # of Ctns

Lab Sample Temperature Info:

Temp Blank Received: Y N Therm ID#: 57061 Cooler 1 Temp Upon Receipt: 37.0C Cooler 1 Therm Corr. Factor: 0.0C Cooler 1 Corrected Temp: 37.0C

Lab Sample Receipt Checklist: Custody Seals Present/Intact Y N NA

Non Conformance(s): YES / NO Page: _____ of: _____

November 09, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92504286

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Cameron Lee, Montrose-EPS
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies

Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92504286

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92504286

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92504286001	14226_HC_RD_20201105	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504286

Sample: 14226_HC_RD_20201105 **Lab ID:** 92504286001 Collected: 11/05/20 12:15 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	11/08/20 11:25	11/08/20 11:25		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/08/20 11:25	11/08/20 11:25		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/08/20 11:25	11/08/20 11:25	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/08/20 11:25	11/08/20 11:25	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.0	%	70.0-130	1	11/08/20 11:25	11/08/20 11:25	615-59-8FID	
2,5-Dibromotoluene (PID)	90.7	%	70.0-130	1	11/08/20 11:25	11/08/20 11:25	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	11/06/20 02:22	11/07/20 02:24	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		11/06/20 16:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 16:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 16:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 16:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 16:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 16:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 16:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 16:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 16:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/06/20 16:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 16:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 16:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 16:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 16:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 16:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 16:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 16:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 16:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 16:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 16:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:03	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504286

Sample: 14226_HC_RD_20201105 **Lab ID:** 92504286001 Collected: 11/05/20 12:15 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 16:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 16:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 16:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 16:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 16:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 16:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 16:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 16:03	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 16:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 16:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 16:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 16:03	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 16:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 16:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 16:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 16:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 16:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 16:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 16:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 16:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 16:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 16:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 16:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 16:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 16:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/06/20 16:03	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		11/06/20 16:03	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		11/06/20 16:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504286

QC Batch: 1572862

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92504286001

METHOD BLANK: R3590775-3

Matrix: Water

Associated Lab Samples: 92504286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/08/20 03:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/08/20 03:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/08/20 03:08	
Total VPH	ug/L	ND	100	11/08/20 03:08	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	11/08/20 03:08	
2,5-Dibromotoluene (PID)	%	84.4	70.0-130	11/08/20 03:08	

LABORATORY CONTROL SAMPLE & LCSD: R3590775-1

R3590775-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1100	1110	91.7	92.5	70.0-130	0.905	25	
Aliphatic (C09-C12)	ug/L	1400	1180	1190	84.3	85.0	70.0-130	0.844	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	170	171	85.0	85.5	70.0-130	0.587	25	
Total VPH	ug/L	2800	2450	2470	87.5	88.2	70.0-130	0.813	25	
2,5-Dibromotoluene (FID)	%				90.7	93.1	70.0-130			
2,5-Dibromotoluene (PID)	%				91.6	93.9	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504286

QC Batch: 578431	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92504286001

METHOD BLANK: 3060405 Matrix: Water
Associated Lab Samples: 92504286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/07/20 01:40	

LABORATORY CONTROL SAMPLE: 3060406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	515	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060407 3060408

Parameter	Units	92504280001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Lead	ug/L	ND	500	500	519	521	103	104	75-125	0			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504286

QC Batch: 578537	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92504286001

METHOD BLANK: 3060816 Matrix: Water

Associated Lab Samples: 92504286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
2,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
2-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
4-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
Benzene	ug/L	ND	0.50	11/06/20 12:11	
Bromobenzene	ug/L	ND	0.50	11/06/20 12:11	
Bromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromodichloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromoform	ug/L	ND	0.50	11/06/20 12:11	
Bromomethane	ug/L	ND	5.0	11/06/20 12:11	
Carbon tetrachloride	ug/L	ND	0.50	11/06/20 12:11	
Chlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
Chloroethane	ug/L	ND	1.0	11/06/20 12:11	
Chloroform	ug/L	ND	0.50	11/06/20 12:11	
Chloromethane	ug/L	ND	1.0	11/06/20 12:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Dibromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Dibromomethane	ug/L	ND	0.50	11/06/20 12:11	
Dichlorodifluoromethane	ug/L	ND	0.50	11/06/20 12:11	
Diisopropyl ether	ug/L	ND	0.50	11/06/20 12:11	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504286

METHOD BLANK: 3060816 Matrix: Water
Associated Lab Samples: 92504286001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/06/20 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/06/20 12:11	
m&p-Xylene	ug/L	ND	1.0	11/06/20 12:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/06/20 12:11	
Methylene Chloride	ug/L	ND	2.0	11/06/20 12:11	
n-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
n-Propylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Naphthalene	ug/L	ND	2.0	11/06/20 12:11	
o-Xylene	ug/L	ND	0.50	11/06/20 12:11	
sec-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Styrene	ug/L	ND	0.50	11/06/20 12:11	
tert-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Tetrachloroethene	ug/L	ND	0.50	11/06/20 12:11	
Toluene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Trichloroethene	ug/L	ND	0.50	11/06/20 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/20 12:11	
Vinyl chloride	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/06/20 12:11	
4-Bromofluorobenzene (S)	%	96	70-130	11/06/20 12:11	
Toluene-d8 (S)	%	100	70-130	11/06/20 12:11	

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	60-140	
1,1,2-Trichloroethane	ug/L	50	48.6	97	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	52.0	104	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.5	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	50.4	101	60-140	
1,2-Dichloroethane	ug/L	50	43.5	87	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504286

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,3-Dichloropropane	ug/L	50	50.9	102	60-140	
1,4-Dichlorobenzene	ug/L	50	50.8	102	60-140	
2,2-Dichloropropane	ug/L	50	49.9	100	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.5	99	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	48.3	97	60-140	
Bromochloromethane	ug/L	50	48.0	96	60-140	
Bromodichloromethane	ug/L	50	46.8	94	60-140	
Bromoform	ug/L	50	47.8	96	60-140	
Bromomethane	ug/L	50	54.1	108	60-140	
Carbon tetrachloride	ug/L	50	46.8	94	60-140	
Chlorobenzene	ug/L	50	49.4	99	60-140	
Chloroethane	ug/L	50	38.8	78	60-140	
Chloroform	ug/L	50	47.4	95	60-140	
Chloromethane	ug/L	50	41.0	82	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	51.3	103	60-140	
Dibromomethane	ug/L	50	50.2	100	60-140	
Dichlorodifluoromethane	ug/L	50	45.9	92	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	48.8	98	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.3	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	47.2	94	60-140	
Methylene Chloride	ug/L	50	45.7	91	60-140	
n-Butylbenzene	ug/L	50	52.7	105	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	54.3	109	60-140	
o-Xylene	ug/L	50	50.0	100	60-140	
sec-Butylbenzene	ug/L	50	50.4	101	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	49.8	100	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.7	97	60-140	
Trichlorofluoromethane	ug/L	50	41.7	83	60-140	
Vinyl chloride	ug/L	50	44.0	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504286

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	438	442	109	111	60-140	1				
1,1,1-Trichloroethane	ug/L	ND	400	400	438	450	110	113	60-140	3				
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	402	415	101	104	60-140	3				
1,1,2-Trichloroethane	ug/L	ND	400	400	415	424	104	106	60-140	2				
1,1-Dichloroethane	ug/L	ND	400	400	433	438	108	110	60-140	1				
1,1-Dichloroethene	ug/L	ND	400	400	489	494	122	124	60-140	1				
1,1-Dichloropropene	ug/L	ND	400	400	438	446	110	112	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	400	400	373	427	93	107	60-140	14				
1,2,3-Trichloropropane	ug/L	ND	400	400	402	418	101	105	60-140	4				
1,2,4-Trichlorobenzene	ug/L	ND	400	400	406	449	102	112	60-140	10				
1,2,4-Trimethylbenzene	ug/L	957	400	400	1390	1480	109	130	60-140	6				
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	411	447	103	112	60-140	8				
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	428	433	107	108	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	400	400	418	436	105	109	60-140	4				
1,2-Dichloroethane	ug/L	ND	400	400	393	392	97	96	60-140	0				
1,2-Dichloropropane	ug/L	ND	400	400	427	452	107	113	60-140	6				
1,3,5-Trimethylbenzene	ug/L	ND	400	400	504	514	126	129	60-140	2				
1,3-Dichlorobenzene	ug/L	ND	400	400	429	439	107	110	60-140	2				
1,3-Dichloropropane	ug/L	ND	400	400	436	437	109	109	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	400	400	424	443	106	111	60-140	4				
2,2-Dichloropropane	ug/L	ND	400	400	408	416	102	104	60-140	2				
2-Chlorotoluene	ug/L	ND	400	400	465	463	116	116	60-140	0				
4-Chlorotoluene	ug/L	ND	400	400	436	442	109	111	60-140	2				
Benzene	ug/L	2900	400	400	3300	3600	100	175	60-140	9	M1			
Bromobenzene	ug/L	ND	400	400	427	435	107	109	60-140	2				
Bromochloromethane	ug/L	ND	400	400	415	415	104	104	60-140	0				
Bromodichloromethane	ug/L	ND	400	400	415	432	104	108	60-140	4				
Bromoform	ug/L	ND	400	400	376	394	94	99	60-140	5				
Bromomethane	ug/L	ND	400	400	384	462	96	115	60-140	18				
Carbon tetrachloride	ug/L	ND	400	400	422	437	105	109	60-140	3				
Chlorobenzene	ug/L	ND	400	400	444	447	111	112	60-140	1				
Chloroethane	ug/L	ND	400	400	401	408	100	102	60-140	2				
Chloroform	ug/L	ND	400	400	428	432	107	108	60-140	1				
Chloromethane	ug/L	ND	400	400	360	382	90	96	60-140	6				
cis-1,2-Dichloroethene	ug/L	ND	400	400	424	431	106	108	60-140	1				
cis-1,3-Dichloropropene	ug/L	ND	400	400	429	435	107	109	60-140	1				
Dibromochloromethane	ug/L	ND	400	400	430	448	108	112	60-140	4				
Dibromomethane	ug/L	ND	400	400	432	452	108	113	60-140	5				
Dichlorodifluoromethane	ug/L	ND	400	400	409	412	102	103	60-140	1				
Diisopropyl ether	ug/L	ND	400	400	407	406	102	102	60-140	0				
Ethylbenzene	ug/L	1140	400	400	1600	1690	115	137	60-140	5				
Hexachloro-1,3-butadiene	ug/L	ND	400	400	398	434	100	108	60-140	9				
Isopropylbenzene (Cumene)	ug/L	41.4	400	400	507	515	116	118	60-140	2				
m&p-Xylene	ug/L	444	800	800	1330	1380	110	117	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	400	400	410	418	103	105	60-140	2				
Methylene Chloride	ug/L	ND	400	400	424	431	106	108	60-140	2				

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504286

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	443	467	111	117	60-140	5				
n-Propylbenzene	ug/L	123	400	400	571	597	112	118	60-140	4				
Naphthalene	ug/L	392	400	400	740	814	87	105	60-140	10				
o-Xylene	ug/L	85.6	400	400	532	535	112	112	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	460	473	115	118	60-140	3				
Styrene	ug/L	ND	400	400	436	442	109	110	60-140	1				
tert-Butylbenzene	ug/L	ND	400	400	391	403	98	101	60-140	3				
Tetrachloroethene	ug/L	ND	400	400	455	468	114	117	60-140	3				
Toluene	ug/L	133	400	400	561	579	107	112	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	400	400	442	449	110	112	60-140	2				
trans-1,3-Dichloropropene	ug/L	ND	400	400	410	422	103	105	60-140	3				
Trichloroethene	ug/L	ND	400	400	443	452	111	113	60-140	2				
Trichlorofluoromethane	ug/L	ND	400	400	416	420	104	105	60-140	1				
Vinyl chloride	ug/L	ND	400	400	400	412	100	103	60-140	3				
1,2-Dichloroethane-d4 (S)	%						102	102	70-130					
4-Bromofluorobenzene (S)	%						99	98	70-130					
Toluene-d8 (S)	%						98	98	70-130					

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504286

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92504286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92504286001	14226_HC_RD_20201105	MADEPV	1572862	MADEP VPH	1572862
92504286001	14226_HC_RD_20201105	EPA 3010A	578431	EPA 6010D	578452
92504286001	14226_HC_RD_20201105	SM 6200B	578537		

REPORT OF LABORATORY ANALYSIS

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Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies
 Address: Andrews Street

Billing Information:
 Email To: Andrews Street @apexcos.com
 Site Collection Info/Address: 11226 Huntersville Concord Rd

Report To: Andrews Street
 Copy To: 11226 Huntersville Concord Rd

Customer Project Name/Number: 2020-L1-2448 Incident
 State: NC County/City: Huntersville Time Zone Collected: PT MT CT ET

Phone: _____ Site/Facility ID #: _____
 Email: _____ Compliance Monitoring? Yes No

Collected By (print): Naomi Frits Purchase Order #: _____
 Quote #: _____

Collected By (signature): Naomi Frits Turnaround Date Required: ASAP
 Sample Disposal: _____

Dispose as appropriate Return Archive: _____
 Hold: _____

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW),
 Product (P), Soil/Solid (S), Oil (O), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Chms
			Date	Time	Date	Time		
<u>11226-HC-RD20201105</u>	<u>D20</u>	<u>G</u>	<u>11/5/20</u>	<u>12:15</u>			<u>8</u>	<u>X</u>
								<u>X</u>
								<u>X</u>
								<u>X</u>
								<u>X</u>

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None
 Packing Material Used: _____
 Radchem sample(s) screened (<500 cpm): Y N NA

Relinquished by/Company: (Signature) Naomi Frits / Apex Date/Time: 11/5/20 1530
 Received by/Company: (Signature) [Signature]

Relinquished by/Company: (Signature) _____ Date/Time: _____
 Received by/Company: (Signature) _____

LAB USE C
MO#: 92504286
 Container 92504286

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses: VOLs 6200B
MADEP VPH
Lead

Lab Profile/line: _____
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact Y NA
 Custody Signatures Present Y NA
 Collector Signatures Present Y NA
 Bottles Intact Y NA
 Correct Bottles Y NA
 Sufficient Volume Y NA
 Samples Received on Ice Y NA
 VOA - Headspace Acceptable Y NA
 USDA Regulated Soils Y NA
 Samples in Holding Time Y NA
 Residual Chlorine Present Y NA
 Cl Strips: _____
 Sample pH Acceptable Y NA
 Sample pH _____
 Sulfide Present Y NA
 Lead Acetate Strips: _____

Lab Tracking #: 2560546
 Samples received via: FEDEX UPS Chem Courier Page Courier
 Date/Time: 11.5.20 1530
 Table #: _____
 Accnum: _____
 Template: _____
 Prelogin: _____
 MTJL LAB USE ONLY

Lab Sample Temperature Info:
 Temp Blank Received: Y NA
 Term ID#: 92706137
 Cooler 1 Temp Upon Receipt: 31.0 OC
 Cooler 1 Therm Corr. Factor: 3.1 OC
 Cooler 1 Corrected Temp: 31.0 OC
 Comments: _____

Lab Sample ONLY:
 Lab Sample # / Comments: 92504286
 Trip Blank Received: Y NA
 HCL MeOH TSP Other _____
 Non Conformance(s): _____ Page: _____ of: _____

November 09, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92504290

Dear Andrew Street:

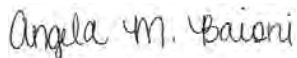
Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Cameron Lee, Montrose-EPS
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies

Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92504290

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92504290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92504290001	14401_HC_RD_20201105	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504290

Sample: 14401_HC_RD_20201105 **Lab ID:** 92504290001 Collected: 11/05/20 12:50 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	11/08/20 10:52	11/08/20 10:52		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/08/20 10:52	11/08/20 10:52		
Aromatic (C09-C10), Unadjusted	ND	ug/L	100	1	11/08/20 10:52	11/08/20 10:52	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/08/20 10:52	11/08/20 10:52	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.2	%	70.0-130	1	11/08/20 10:52	11/08/20 10:52	615-59-8FID	
2,5-Dibromotoluene (PID)	95.5	%	70.0-130	1	11/08/20 10:52	11/08/20 10:52	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	11/06/20 02:22	11/07/20 02:28	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		11/06/20 16:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 16:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 16:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 16:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 16:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 16:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 16:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 16:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 16:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/06/20 16:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 16:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 16:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 16:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 16:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 16:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 16:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 16:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 16:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 16:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 16:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:21	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504290

Sample: 14401_HC_RD_20201105 **Lab ID:** 92504290001 Collected: 11/05/20 12:50 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 16:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 16:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 16:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 16:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 16:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 16:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 16:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 16:21	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 16:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 16:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 16:21	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 16:21	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 16:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 16:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 16:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 16:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 16:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 16:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 16:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 16:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 16:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 16:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 16:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 16:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 16:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/06/20 16:21	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/06/20 16:21	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		11/06/20 16:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504290

QC Batch: 1572862

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92504290001

METHOD BLANK: R3590775-3

Matrix: Water

Associated Lab Samples: 92504290001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/08/20 03:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/08/20 03:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/08/20 03:08	
Total VPH	ug/L	ND	100	11/08/20 03:08	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	11/08/20 03:08	
2,5-Dibromotoluene (PID)	%	84.4	70.0-130	11/08/20 03:08	

LABORATORY CONTROL SAMPLE & LCSD: R3590775-1

R3590775-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1100	1110	91.7	92.5	70.0-130	0.905	25	
Aliphatic (C09-C12)	ug/L	1400	1180	1190	84.3	85.0	70.0-130	0.844	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	170	171	85.0	85.5	70.0-130	0.587	25	
Total VPH	ug/L	2800	2450	2470	87.5	88.2	70.0-130	0.813	25	
2,5-Dibromotoluene (FID)	%				90.7	93.1	70.0-130			
2,5-Dibromotoluene (PID)	%				91.6	93.9	70.0-130			

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

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504290

QC Batch: 578431

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010 MET

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92504290001

METHOD BLANK: 3060405

Matrix: Water

Associated Lab Samples: 92504290001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/07/20 01:40	

LABORATORY CONTROL SAMPLE: 3060406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	515	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060407 3060408

Parameter	Units	92504280001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Lead	ug/L	ND	500	500	519	521	103	104	75-125	0			

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

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504290

QC Batch: 578537	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92504290001

METHOD BLANK: 3060816 Matrix: Water

Associated Lab Samples: 92504290001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
2,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
2-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
4-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
Benzene	ug/L	ND	0.50	11/06/20 12:11	
Bromobenzene	ug/L	ND	0.50	11/06/20 12:11	
Bromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromodichloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromoform	ug/L	ND	0.50	11/06/20 12:11	
Bromomethane	ug/L	ND	5.0	11/06/20 12:11	
Carbon tetrachloride	ug/L	ND	0.50	11/06/20 12:11	
Chlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
Chloroethane	ug/L	ND	1.0	11/06/20 12:11	
Chloroform	ug/L	ND	0.50	11/06/20 12:11	
Chloromethane	ug/L	ND	1.0	11/06/20 12:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Dibromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Dibromomethane	ug/L	ND	0.50	11/06/20 12:11	
Dichlorodifluoromethane	ug/L	ND	0.50	11/06/20 12:11	
Diisopropyl ether	ug/L	ND	0.50	11/06/20 12:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504290

METHOD BLANK: 3060816 Matrix: Water
Associated Lab Samples: 92504290001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/06/20 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/06/20 12:11	
m&p-Xylene	ug/L	ND	1.0	11/06/20 12:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/06/20 12:11	
Methylene Chloride	ug/L	ND	2.0	11/06/20 12:11	
n-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
n-Propylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Naphthalene	ug/L	ND	2.0	11/06/20 12:11	
o-Xylene	ug/L	ND	0.50	11/06/20 12:11	
sec-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Styrene	ug/L	ND	0.50	11/06/20 12:11	
tert-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Tetrachloroethene	ug/L	ND	0.50	11/06/20 12:11	
Toluene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Trichloroethene	ug/L	ND	0.50	11/06/20 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/20 12:11	
Vinyl chloride	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/06/20 12:11	
4-Bromofluorobenzene (S)	%	96	70-130	11/06/20 12:11	
Toluene-d8 (S)	%	100	70-130	11/06/20 12:11	

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	60-140	
1,1,2-Trichloroethane	ug/L	50	48.6	97	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	52.0	104	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.5	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	50.4	101	60-140	
1,2-Dichloroethane	ug/L	50	43.5	87	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504290

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,3-Dichloropropane	ug/L	50	50.9	102	60-140	
1,4-Dichlorobenzene	ug/L	50	50.8	102	60-140	
2,2-Dichloropropane	ug/L	50	49.9	100	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.5	99	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	48.3	97	60-140	
Bromochloromethane	ug/L	50	48.0	96	60-140	
Bromodichloromethane	ug/L	50	46.8	94	60-140	
Bromoform	ug/L	50	47.8	96	60-140	
Bromomethane	ug/L	50	54.1	108	60-140	
Carbon tetrachloride	ug/L	50	46.8	94	60-140	
Chlorobenzene	ug/L	50	49.4	99	60-140	
Chloroethane	ug/L	50	38.8	78	60-140	
Chloroform	ug/L	50	47.4	95	60-140	
Chloromethane	ug/L	50	41.0	82	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	51.3	103	60-140	
Dibromomethane	ug/L	50	50.2	100	60-140	
Dichlorodifluoromethane	ug/L	50	45.9	92	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	48.8	98	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.3	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	47.2	94	60-140	
Methylene Chloride	ug/L	50	45.7	91	60-140	
n-Butylbenzene	ug/L	50	52.7	105	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	54.3	109	60-140	
o-Xylene	ug/L	50	50.0	100	60-140	
sec-Butylbenzene	ug/L	50	50.4	101	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	49.8	100	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.7	97	60-140	
Trichlorofluoromethane	ug/L	50	41.7	83	60-140	
Vinyl chloride	ug/L	50	44.0	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504290

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	438	442	109	111	60-140	1				
1,1,1-Trichloroethane	ug/L	ND	400	400	438	450	110	113	60-140	3				
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	402	415	101	104	60-140	3				
1,1,2-Trichloroethane	ug/L	ND	400	400	415	424	104	106	60-140	2				
1,1-Dichloroethane	ug/L	ND	400	400	433	438	108	110	60-140	1				
1,1-Dichloroethene	ug/L	ND	400	400	489	494	122	124	60-140	1				
1,1-Dichloropropene	ug/L	ND	400	400	438	446	110	112	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	400	400	373	427	93	107	60-140	14				
1,2,3-Trichloropropane	ug/L	ND	400	400	402	418	101	105	60-140	4				
1,2,4-Trichlorobenzene	ug/L	ND	400	400	406	449	102	112	60-140	10				
1,2,4-Trimethylbenzene	ug/L	957	400	400	1390	1480	109	130	60-140	6				
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	411	447	103	112	60-140	8				
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	428	433	107	108	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	400	400	418	436	105	109	60-140	4				
1,2-Dichloroethane	ug/L	ND	400	400	393	392	97	96	60-140	0				
1,2-Dichloropropane	ug/L	ND	400	400	427	452	107	113	60-140	6				
1,3,5-Trimethylbenzene	ug/L	ND	400	400	504	514	126	129	60-140	2				
1,3-Dichlorobenzene	ug/L	ND	400	400	429	439	107	110	60-140	2				
1,3-Dichloropropane	ug/L	ND	400	400	436	437	109	109	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	400	400	424	443	106	111	60-140	4				
2,2-Dichloropropane	ug/L	ND	400	400	408	416	102	104	60-140	2				
2-Chlorotoluene	ug/L	ND	400	400	465	463	116	116	60-140	0				
4-Chlorotoluene	ug/L	ND	400	400	436	442	109	111	60-140	2				
Benzene	ug/L	2900	400	400	3300	3600	100	175	60-140	9	M1			
Bromobenzene	ug/L	ND	400	400	427	435	107	109	60-140	2				
Bromochloromethane	ug/L	ND	400	400	415	415	104	104	60-140	0				
Bromodichloromethane	ug/L	ND	400	400	415	432	104	108	60-140	4				
Bromoform	ug/L	ND	400	400	376	394	94	99	60-140	5				
Bromomethane	ug/L	ND	400	400	384	462	96	115	60-140	18				
Carbon tetrachloride	ug/L	ND	400	400	422	437	105	109	60-140	3				
Chlorobenzene	ug/L	ND	400	400	444	447	111	112	60-140	1				
Chloroethane	ug/L	ND	400	400	401	408	100	102	60-140	2				
Chloroform	ug/L	ND	400	400	428	432	107	108	60-140	1				
Chloromethane	ug/L	ND	400	400	360	382	90	96	60-140	6				
cis-1,2-Dichloroethene	ug/L	ND	400	400	424	431	106	108	60-140	1				
cis-1,3-Dichloropropene	ug/L	ND	400	400	429	435	107	109	60-140	1				
Dibromochloromethane	ug/L	ND	400	400	430	448	108	112	60-140	4				
Dibromomethane	ug/L	ND	400	400	432	452	108	113	60-140	5				
Dichlorodifluoromethane	ug/L	ND	400	400	409	412	102	103	60-140	1				
Diisopropyl ether	ug/L	ND	400	400	407	406	102	102	60-140	0				
Ethylbenzene	ug/L	1140	400	400	1600	1690	115	137	60-140	5				
Hexachloro-1,3-butadiene	ug/L	ND	400	400	398	434	100	108	60-140	9				
Isopropylbenzene (Cumene)	ug/L	41.4	400	400	507	515	116	118	60-140	2				
m&p-Xylene	ug/L	444	800	800	1330	1380	110	117	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	400	400	410	418	103	105	60-140	2				
Methylene Chloride	ug/L	ND	400	400	424	431	106	108	60-140	2				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504290

Parameter	Units	92502947003		3060818		3060819		% Rec	% Rec	Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
n-Butylbenzene	ug/L	ND	400	400	443	467	111	117	60-140	5		
n-Propylbenzene	ug/L	123	400	400	571	597	112	118	60-140	4		
Naphthalene	ug/L	392	400	400	740	814	87	105	60-140	10		
o-Xylene	ug/L	85.6	400	400	532	535	112	112	60-140	1		
sec-Butylbenzene	ug/L	ND	400	400	460	473	115	118	60-140	3		
Styrene	ug/L	ND	400	400	436	442	109	110	60-140	1		
tert-Butylbenzene	ug/L	ND	400	400	391	403	98	101	60-140	3		
Tetrachloroethene	ug/L	ND	400	400	455	468	114	117	60-140	3		
Toluene	ug/L	133	400	400	561	579	107	112	60-140	3		
trans-1,2-Dichloroethene	ug/L	ND	400	400	442	449	110	112	60-140	2		
trans-1,3-Dichloropropene	ug/L	ND	400	400	410	422	103	105	60-140	3		
Trichloroethene	ug/L	ND	400	400	443	452	111	113	60-140	2		
Trichlorofluoromethane	ug/L	ND	400	400	416	420	104	105	60-140	1		
Vinyl chloride	ug/L	ND	400	400	400	412	100	103	60-140	3		
1,2-Dichloroethane-d4 (S)	%						102	102	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						98	98	70-130			

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504290

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92504290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92504290001	14401_HC_RD_20201105	MADEPV	1572862	MADEP VPH	1572862
92504290001	14401_HC_RD_20201105	EPA 3010A	578431	EPA 6010D	578452
92504290001	14401_HC_RD_20201105	SM 6200B	578537		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apeex Companies

Billing Information:

Report To: Andrews Street

Email To: Andrews.Street@apeex.com

Copy To:

Site Collection Info/Address: 14701 Hawksville Corporate Rd

Customer Project Name/Number: 2020-L1-2448 Incident

State: NC County/City: Huntersville Time Zone Collected: 1 PT 1 MT 1 CT 1 ET

Phone:

Site/Facility ID #: Incident

Collected By (print): Naomi Katz

Compliance Monitoring? 1 Yes 1 No

Collected By (signature): Naomi Katz

Turnaround Date Required: ASAP

Sample Disposal: 1 Dispose as appropriate 1 Return

Rush: 1 Same Day 1 Next Day 1 2 Day 1 3 Day 1 4 Day 1 5 Day

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date/Time	Composite End Date/Time	Res Cl	# of Ctns
14701.HC.RD20201105	DW	G	11/5/20 1250			8

LAB USE ON

W0#: 92504290



Container P: 92504290

**Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact: Y NA

Customer Signatures Present: Y NA

Collector Signature Present: Y NA

Correct Bottles: Y NA

Sufficient Volume Samples Received on Ice: Y NA

VOCS 6200B
MADEP VPH
Lead

Lab Sample Temperature Info:
Temp Blank Received: Y NA
Therm ID#: 21708
Cooler 1 Temp Upon Receipt: 27 oc
Cooler 1 Therm Corr. Factor: 0 oc
Cooler 1 Corrected Temp: 5.1 oc

November 09, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-L1-2448 Incident
Pace Project No.: 92504292

Dear Andrew Street:

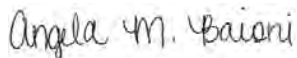
Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Cameron Lee, Montrose-EPS
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies

Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-L1-2448 Incident

Pace Project No.: 92504292

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification #: 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification #: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-L1-2448 Incident

Pace Project No.: 92504292

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92504292001	13926A_HC_RD_20201105	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92504292

Sample: 13926A_HC_RD_20201105 Lab ID: 92504292001 Collected: 11/05/20 13:50 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/08/20 10:19	11/08/20 10:19		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/08/20 10:19	11/08/20 10:19		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/08/20 10:19	11/08/20 10:19	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/08/20 10:19	11/08/20 10:19	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.0	%	70.0-130	1	11/08/20 10:19	11/08/20 10:19	615-59-8FID	
2,5-Dibromotoluene (PID)	93.0	%	70.0-130	1	11/08/20 10:19	11/08/20 10:19	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	11/06/20 02:22	11/07/20 02:32	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		11/06/20 16:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 16:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 16:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 16:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 16:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 16:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 16:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 16:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 16:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/06/20 16:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 16:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 16:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 16:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 16:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 16:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 16:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 16:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 16:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 16:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 16:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:39	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-L1-2448 Incident

Pace Project No.: 92504292

Sample: 13926A_HC_RD_20201105 **Lab ID:** 92504292001 Collected: 11/05/20 13:50 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 16:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 16:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 16:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 16:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 16:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 16:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 16:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 16:39	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 16:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 16:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 16:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 16:39	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 16:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 16:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 16:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 16:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 16:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 16:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 16:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 16:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 16:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 16:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 16:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 16:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 16:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		11/06/20 16:39	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		11/06/20 16:39	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/06/20 16:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504292

QC Batch: 1572862

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92504292001

METHOD BLANK: R3590775-3

Matrix: Water

Associated Lab Samples: 92504292001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/08/20 03:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/08/20 03:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/08/20 03:08	
Total VPH	ug/L	ND	100	11/08/20 03:08	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	11/08/20 03:08	
2,5-Dibromotoluene (PID)	%	84.4	70.0-130	11/08/20 03:08	

LABORATORY CONTROL SAMPLE & LCSD: R3590775-1

R3590775-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1100	1110	91.7	92.5	70.0-130	0.905	25	
Aliphatic (C09-C12)	ug/L	1400	1180	1190	84.3	85.0	70.0-130	0.844	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	170	171	85.0	85.5	70.0-130	0.587	25	
Total VPH	ug/L	2800	2450	2470	87.5	88.2	70.0-130	0.813	25	
2,5-Dibromotoluene (FID)	%				90.7	93.1	70.0-130			
2,5-Dibromotoluene (PID)	%				91.6	93.9	70.0-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92504292

QC Batch: 578431	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92504292001

METHOD BLANK: 3060405 Matrix: Water
Associated Lab Samples: 92504292001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/07/20 01:40	

LABORATORY CONTROL SAMPLE: 3060406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	515	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060407 3060408

Parameter	Units	92504280001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Lead	ug/L	ND	500	519	521	103	104	75-125	0				

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92504292

QC Batch: 578537	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92504292001

METHOD BLANK: 3060816 Matrix: Water

Associated Lab Samples: 92504292001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
2,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
2-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
4-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
Benzene	ug/L	ND	0.50	11/06/20 12:11	
Bromobenzene	ug/L	ND	0.50	11/06/20 12:11	
Bromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromodichloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromoform	ug/L	ND	0.50	11/06/20 12:11	
Bromomethane	ug/L	ND	5.0	11/06/20 12:11	
Carbon tetrachloride	ug/L	ND	0.50	11/06/20 12:11	
Chlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
Chloroethane	ug/L	ND	1.0	11/06/20 12:11	
Chloroform	ug/L	ND	0.50	11/06/20 12:11	
Chloromethane	ug/L	ND	1.0	11/06/20 12:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Dibromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Dibromomethane	ug/L	ND	0.50	11/06/20 12:11	
Dichlorodifluoromethane	ug/L	ND	0.50	11/06/20 12:11	
Diisopropyl ether	ug/L	ND	0.50	11/06/20 12:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92504292

METHOD BLANK: 3060816 Matrix: Water
Associated Lab Samples: 92504292001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/06/20 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/06/20 12:11	
m&p-Xylene	ug/L	ND	1.0	11/06/20 12:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/06/20 12:11	
Methylene Chloride	ug/L	ND	2.0	11/06/20 12:11	
n-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
n-Propylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Naphthalene	ug/L	ND	2.0	11/06/20 12:11	
o-Xylene	ug/L	ND	0.50	11/06/20 12:11	
sec-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Styrene	ug/L	ND	0.50	11/06/20 12:11	
tert-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Tetrachloroethene	ug/L	ND	0.50	11/06/20 12:11	
Toluene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Trichloroethene	ug/L	ND	0.50	11/06/20 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/20 12:11	
Vinyl chloride	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/06/20 12:11	
4-Bromofluorobenzene (S)	%	96	70-130	11/06/20 12:11	
Toluene-d8 (S)	%	100	70-130	11/06/20 12:11	

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	60-140	
1,1,2-Trichloroethane	ug/L	50	48.6	97	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	52.0	104	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.5	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	50.4	101	60-140	
1,2-Dichloroethane	ug/L	50	43.5	87	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident
Pace Project No.: 92504292

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,3-Dichloropropane	ug/L	50	50.9	102	60-140	
1,4-Dichlorobenzene	ug/L	50	50.8	102	60-140	
2,2-Dichloropropane	ug/L	50	49.9	100	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.5	99	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	48.3	97	60-140	
Bromochloromethane	ug/L	50	48.0	96	60-140	
Bromodichloromethane	ug/L	50	46.8	94	60-140	
Bromoform	ug/L	50	47.8	96	60-140	
Bromomethane	ug/L	50	54.1	108	60-140	
Carbon tetrachloride	ug/L	50	46.8	94	60-140	
Chlorobenzene	ug/L	50	49.4	99	60-140	
Chloroethane	ug/L	50	38.8	78	60-140	
Chloroform	ug/L	50	47.4	95	60-140	
Chloromethane	ug/L	50	41.0	82	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	51.3	103	60-140	
Dibromomethane	ug/L	50	50.2	100	60-140	
Dichlorodifluoromethane	ug/L	50	45.9	92	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	48.8	98	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.3	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	47.2	94	60-140	
Methylene Chloride	ug/L	50	45.7	91	60-140	
n-Butylbenzene	ug/L	50	52.7	105	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	54.3	109	60-140	
o-Xylene	ug/L	50	50.0	100	60-140	
sec-Butylbenzene	ug/L	50	50.4	101	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	49.8	100	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.7	97	60-140	
Trichlorofluoromethane	ug/L	50	41.7	83	60-140	
Vinyl chloride	ug/L	50	44.0	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504292

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060818 3060819												
Parameter	92502947003		MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	438	442	109	111	60-140	1		
1,1,1-Trichloroethane	ug/L	ND	400	400	438	450	110	113	60-140	3		
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	402	415	101	104	60-140	3		
1,1,2-Trichloroethane	ug/L	ND	400	400	415	424	104	106	60-140	2		
1,1-Dichloroethane	ug/L	ND	400	400	433	438	108	110	60-140	1		
1,1-Dichloroethene	ug/L	ND	400	400	489	494	122	124	60-140	1		
1,1-Dichloropropene	ug/L	ND	400	400	438	446	110	112	60-140	2		
1,2,3-Trichlorobenzene	ug/L	ND	400	400	373	427	93	107	60-140	14		
1,2,3-Trichloropropane	ug/L	ND	400	400	402	418	101	105	60-140	4		
1,2,4-Trichlorobenzene	ug/L	ND	400	400	406	449	102	112	60-140	10		
1,2,4-Trimethylbenzene	ug/L	957	400	400	1390	1480	109	130	60-140	6		
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	411	447	103	112	60-140	8		
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	428	433	107	108	60-140	1		
1,2-Dichlorobenzene	ug/L	ND	400	400	418	436	105	109	60-140	4		
1,2-Dichloroethane	ug/L	ND	400	400	393	392	97	96	60-140	0		
1,2-Dichloropropane	ug/L	ND	400	400	427	452	107	113	60-140	6		
1,3,5-Trimethylbenzene	ug/L	ND	400	400	504	514	126	129	60-140	2		
1,3-Dichlorobenzene	ug/L	ND	400	400	429	439	107	110	60-140	2		
1,3-Dichloropropane	ug/L	ND	400	400	436	437	109	109	60-140	0		
1,4-Dichlorobenzene	ug/L	ND	400	400	424	443	106	111	60-140	4		
2,2-Dichloropropane	ug/L	ND	400	400	408	416	102	104	60-140	2		
2-Chlorotoluene	ug/L	ND	400	400	465	463	116	116	60-140	0		
4-Chlorotoluene	ug/L	ND	400	400	436	442	109	111	60-140	2		
Benzene	ug/L	2900	400	400	3300	3600	100	175	60-140	9	M1	
Bromobenzene	ug/L	ND	400	400	427	435	107	109	60-140	2		
Bromochloromethane	ug/L	ND	400	400	415	415	104	104	60-140	0		
Bromodichloromethane	ug/L	ND	400	400	415	432	104	108	60-140	4		
Bromoform	ug/L	ND	400	400	376	394	94	99	60-140	5		
Bromomethane	ug/L	ND	400	400	384	462	96	115	60-140	18		
Carbon tetrachloride	ug/L	ND	400	400	422	437	105	109	60-140	3		
Chlorobenzene	ug/L	ND	400	400	444	447	111	112	60-140	1		
Chloroethane	ug/L	ND	400	400	401	408	100	102	60-140	2		
Chloroform	ug/L	ND	400	400	428	432	107	108	60-140	1		
Chloromethane	ug/L	ND	400	400	360	382	90	96	60-140	6		
cis-1,2-Dichloroethene	ug/L	ND	400	400	424	431	106	108	60-140	1		
cis-1,3-Dichloropropene	ug/L	ND	400	400	429	435	107	109	60-140	1		
Dibromochloromethane	ug/L	ND	400	400	430	448	108	112	60-140	4		
Dibromomethane	ug/L	ND	400	400	432	452	108	113	60-140	5		
Dichlorodifluoromethane	ug/L	ND	400	400	409	412	102	103	60-140	1		
Diisopropyl ether	ug/L	ND	400	400	407	406	102	102	60-140	0		
Ethylbenzene	ug/L	1140	400	400	1600	1690	115	137	60-140	5		
Hexachloro-1,3-butadiene	ug/L	ND	400	400	398	434	100	108	60-140	9		
Isopropylbenzene (Cumene)	ug/L	41.4	400	400	507	515	116	118	60-140	2		
m&p-Xylene	ug/L	444	800	800	1330	1380	110	117	60-140	4		
Methyl-tert-butyl ether	ug/L	ND	400	400	410	418	103	105	60-140	2		
Methylene Chloride	ug/L	ND	400	400	424	431	106	108	60-140	2		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-L1-2448 Incident

Pace Project No.: 92504292

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060818 3060819												
Parameter	Units	92502947003		MS	MSD	3060819		% Rec	% Rec	% Rec	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result					
n-Butylbenzene	ug/L	ND	400	400	400	443	467	111	117	60-140	5	
n-Propylbenzene	ug/L	123	400	400	400	571	597	112	118	60-140	4	
Naphthalene	ug/L	392	400	400	400	740	814	87	105	60-140	10	
o-Xylene	ug/L	85.6	400	400	400	532	535	112	112	60-140	1	
sec-Butylbenzene	ug/L	ND	400	400	400	460	473	115	118	60-140	3	
Styrene	ug/L	ND	400	400	400	436	442	109	110	60-140	1	
tert-Butylbenzene	ug/L	ND	400	400	400	391	403	98	101	60-140	3	
Tetrachloroethene	ug/L	ND	400	400	400	455	468	114	117	60-140	3	
Toluene	ug/L	133	400	400	400	561	579	107	112	60-140	3	
trans-1,2-Dichloroethene	ug/L	ND	400	400	400	442	449	110	112	60-140	2	
trans-1,3-Dichloropropene	ug/L	ND	400	400	400	410	422	103	105	60-140	3	
Trichloroethene	ug/L	ND	400	400	400	443	452	111	113	60-140	2	
Trichlorofluoromethane	ug/L	ND	400	400	400	416	420	104	105	60-140	1	
Vinyl chloride	ug/L	ND	400	400	400	400	412	100	103	60-140	3	
1,2-Dichloroethane-d4 (S)	%							102	102	70-130		
4-Bromofluorobenzene (S)	%							99	98	70-130		
Toluene-d8 (S)	%							98	98	70-130		

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QUALIFIERS

Project: 2020-L1-2448 Incident

Pace Project No.: 92504292

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-L1-2448 Incident

Pace Project No.: 92504292

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92504292001	13926A_HC_RD_20201105	MADEPV	1572862	MADEP VPH	1572862
92504292001	13926A_HC_RD_20201105	EPA 3010A	578431	EPA 6010D	578452
92504292001	13926A_HC_RD_20201105	SM 6200B	578537		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies
Address: Apex Companies

Billing Information:
Report To: Andrew Street
Copy To: Andrew Street

Customer Project Name/Number: 2020-LI-2448 Incident
Site Collection Info/Address: 13926 Huntersville Concord Rd
State: NC County/City: Huntersville Time Zone Collected: PT | MT | CT | ET

Collected By (Print): Maami Feltz
Turnaround Date Required: ASAP
Rush: Same Day Next Day
 Dispose as appropriate Return Archive

Sample Disposal: Same Day Next Day
 Dispose as appropriate Return Archive

Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SI), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected for Composite Start		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
<u>13926A HC PD 2020LIS</u>	<u>DW</u>	<u>G</u>	<u>11-5-20</u>	<u>1350</u>				<u>8</u>

Customer Remarks / Special Conditions / Possible Hazards:
Type of Ice Used: Wet Blue Dry None
Packaging Material Used:

Relinquished by/Company: (Signature)
Maami Feltz / Apex
Date/Time: 11-5-20 1530
Received by/Company: (Signature)
Tracy

Relinquished by/Company: (Signature)
Date/Time: _____
Received by/Company: (Signature)

Relinquished by/Company: (Signature)
Date/Time: _____
Received by/Company: (Signature)

LAB **W0# : 92504292** 37 Number or

LAB Project Manager: Y

Cont: _____

**Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Sample/Line:	Lab Profile/Line:
<u>02504292 001</u>	<u>92504292 001</u>

- Custody Seals Present/Intact
- Custody Signatures Present
- Collector Signatures Present
- Bottles Intact
- Correct Bottles
- Sufficient Volume
- Samples Received on Ice
- VOA - Headspace Acceptable
- USA Regulated Soils
- Samples in Holding Time
- Residual Chlorine Present
- Cl Strips: _____
- Sample pH Acceptable
- pH Strips: _____
- Sulfide Present
- Lead Acetate Strips: _____

Lab Tracking #: **2560525**
 Lab Tracking #: 2560525
 Lab Tracking #: _____
 Lab Tracking #: _____

SHOHT HOLDS PRESENT (<72 hours): Y N/A

Samples received via: Client
FEDEX UPS Client Courier Pace Courier

Date/Time: 11-5-20 1530
Received by/Company: (Signature)
Tracy

Table #: _____
MTIL LAB USE ONLY

Non Conformance(s): Y
HCL MeOH TSP Other

November 09, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92504297

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Cameron Lee, Montrose-EPS
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies

Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92504297

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92504297

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92504297001	14015_AC_RD_20201105	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504297

Sample: 14015_AC_RD_20201105 **Lab ID:** 92504297001 Collected: 11/05/20 10:25 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/08/20 09:46	11/08/20 09:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/08/20 09:46	11/08/20 09:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/08/20 09:46	11/08/20 09:46	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/08/20 09:46	11/08/20 09:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.6	%	70.0-130	1	11/08/20 09:46	11/08/20 09:46	615-59-8FID	
2,5-Dibromotoluene (PID)	91.5	%	70.0-130	1	11/08/20 09:46	11/08/20 09:46	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	11/06/20 02:22	11/07/20 02:35	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		11/06/20 16:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 16:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 16:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 16:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 16:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 16:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 16:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 16:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 16:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 16:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/06/20 16:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 16:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 16:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 16:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 16:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 16:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 16:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 16:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 16:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 16:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 16:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 16:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 16:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 16:57	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504297

Sample: 14015_AC_RD_20201105 **Lab ID: 92504297001** Collected: 11/05/20 10:25 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 16:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 16:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 16:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 16:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 16:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 16:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 16:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 16:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 16:57	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 16:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 16:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 16:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 16:57	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 16:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 16:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 16:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 16:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 16:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 16:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 16:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 16:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 16:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 16:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 16:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 16:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 16:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/06/20 16:57	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		11/06/20 16:57	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/06/20 16:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504297

QC Batch: 1572862	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92504297001

METHOD BLANK: R3590775-3 Matrix: Water

Associated Lab Samples: 92504297001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/08/20 03:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/08/20 03:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/08/20 03:08	
Total VPH	ug/L	ND	100	11/08/20 03:08	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	11/08/20 03:08	
2,5-Dibromotoluene (PID)	%	84.4	70.0-130	11/08/20 03:08	

LABORATORY CONTROL SAMPLE & LCSD: R3590775-1 R3590775-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1100	1110	91.7	92.5	70.0-130	0.905	25	
Aliphatic (C09-C12)	ug/L	1400	1180	1190	84.3	85.0	70.0-130	0.844	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	170	171	85.0	85.5	70.0-130	0.587	25	
Total VPH	ug/L	2800	2450	2470	87.5	88.2	70.0-130	0.813	25	
2,5-Dibromotoluene (FID)	%				90.7	93.1	70.0-130			
2,5-Dibromotoluene (PID)	%				91.6	93.9	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504297

QC Batch: 578431	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92504297001

METHOD BLANK: 3060405 Matrix: Water

Associated Lab Samples: 92504297001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/07/20 01:40	

LABORATORY CONTROL SAMPLE: 3060406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	515	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060407 3060408

Parameter	Units	92504280001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Lead	ug/L	ND	500	500	519	521	103	104	75-125	0			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504297

QC Batch: 578537	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92504297001

METHOD BLANK: 3060816 Matrix: Water

Associated Lab Samples: 92504297001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
2,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
2-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
4-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
Benzene	ug/L	ND	0.50	11/06/20 12:11	
Bromobenzene	ug/L	ND	0.50	11/06/20 12:11	
Bromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromodichloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromoform	ug/L	ND	0.50	11/06/20 12:11	
Bromomethane	ug/L	ND	5.0	11/06/20 12:11	
Carbon tetrachloride	ug/L	ND	0.50	11/06/20 12:11	
Chlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
Chloroethane	ug/L	ND	1.0	11/06/20 12:11	
Chloroform	ug/L	ND	0.50	11/06/20 12:11	
Chloromethane	ug/L	ND	1.0	11/06/20 12:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Dibromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Dibromomethane	ug/L	ND	0.50	11/06/20 12:11	
Dichlorodifluoromethane	ug/L	ND	0.50	11/06/20 12:11	
Diisopropyl ether	ug/L	ND	0.50	11/06/20 12:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504297

METHOD BLANK: 3060816 Matrix: Water
Associated Lab Samples: 92504297001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/06/20 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/06/20 12:11	
m&p-Xylene	ug/L	ND	1.0	11/06/20 12:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/06/20 12:11	
Methylene Chloride	ug/L	ND	2.0	11/06/20 12:11	
n-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
n-Propylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Naphthalene	ug/L	ND	2.0	11/06/20 12:11	
o-Xylene	ug/L	ND	0.50	11/06/20 12:11	
sec-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Styrene	ug/L	ND	0.50	11/06/20 12:11	
tert-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Tetrachloroethene	ug/L	ND	0.50	11/06/20 12:11	
Toluene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Trichloroethene	ug/L	ND	0.50	11/06/20 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/20 12:11	
Vinyl chloride	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/06/20 12:11	
4-Bromofluorobenzene (S)	%	96	70-130	11/06/20 12:11	
Toluene-d8 (S)	%	100	70-130	11/06/20 12:11	

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	60-140	
1,1,2-Trichloroethane	ug/L	50	48.6	97	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	52.0	104	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.5	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	50.4	101	60-140	
1,2-Dichloroethane	ug/L	50	43.5	87	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504297

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,3-Dichloropropane	ug/L	50	50.9	102	60-140	
1,4-Dichlorobenzene	ug/L	50	50.8	102	60-140	
2,2-Dichloropropane	ug/L	50	49.9	100	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.5	99	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	48.3	97	60-140	
Bromochloromethane	ug/L	50	48.0	96	60-140	
Bromodichloromethane	ug/L	50	46.8	94	60-140	
Bromoform	ug/L	50	47.8	96	60-140	
Bromomethane	ug/L	50	54.1	108	60-140	
Carbon tetrachloride	ug/L	50	46.8	94	60-140	
Chlorobenzene	ug/L	50	49.4	99	60-140	
Chloroethane	ug/L	50	38.8	78	60-140	
Chloroform	ug/L	50	47.4	95	60-140	
Chloromethane	ug/L	50	41.0	82	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	51.3	103	60-140	
Dibromomethane	ug/L	50	50.2	100	60-140	
Dichlorodifluoromethane	ug/L	50	45.9	92	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	48.8	98	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.3	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	47.2	94	60-140	
Methylene Chloride	ug/L	50	45.7	91	60-140	
n-Butylbenzene	ug/L	50	52.7	105	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	54.3	109	60-140	
o-Xylene	ug/L	50	50.0	100	60-140	
sec-Butylbenzene	ug/L	50	50.4	101	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	49.8	100	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.7	97	60-140	
Trichlorofluoromethane	ug/L	50	41.7	83	60-140	
Vinyl chloride	ug/L	50	44.0	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504297

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	438	442	109	111	60-140	1				
1,1,1-Trichloroethane	ug/L	ND	400	400	438	450	110	113	60-140	3				
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	402	415	101	104	60-140	3				
1,1,2-Trichloroethane	ug/L	ND	400	400	415	424	104	106	60-140	2				
1,1-Dichloroethane	ug/L	ND	400	400	433	438	108	110	60-140	1				
1,1-Dichloroethene	ug/L	ND	400	400	489	494	122	124	60-140	1				
1,1-Dichloropropene	ug/L	ND	400	400	438	446	110	112	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	400	400	373	427	93	107	60-140	14				
1,2,3-Trichloropropane	ug/L	ND	400	400	402	418	101	105	60-140	4				
1,2,4-Trichlorobenzene	ug/L	ND	400	400	406	449	102	112	60-140	10				
1,2,4-Trimethylbenzene	ug/L	957	400	400	1390	1480	109	130	60-140	6				
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	411	447	103	112	60-140	8				
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	428	433	107	108	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	400	400	418	436	105	109	60-140	4				
1,2-Dichloroethane	ug/L	ND	400	400	393	392	97	96	60-140	0				
1,2-Dichloropropane	ug/L	ND	400	400	427	452	107	113	60-140	6				
1,3,5-Trimethylbenzene	ug/L	ND	400	400	504	514	126	129	60-140	2				
1,3-Dichlorobenzene	ug/L	ND	400	400	429	439	107	110	60-140	2				
1,3-Dichloropropane	ug/L	ND	400	400	436	437	109	109	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	400	400	424	443	106	111	60-140	4				
2,2-Dichloropropane	ug/L	ND	400	400	408	416	102	104	60-140	2				
2-Chlorotoluene	ug/L	ND	400	400	465	463	116	116	60-140	0				
4-Chlorotoluene	ug/L	ND	400	400	436	442	109	111	60-140	2				
Benzene	ug/L	2900	400	400	3300	3600	100	175	60-140	9	M1			
Bromobenzene	ug/L	ND	400	400	427	435	107	109	60-140	2				
Bromochloromethane	ug/L	ND	400	400	415	415	104	104	60-140	0				
Bromodichloromethane	ug/L	ND	400	400	415	432	104	108	60-140	4				
Bromoform	ug/L	ND	400	400	376	394	94	99	60-140	5				
Bromomethane	ug/L	ND	400	400	384	462	96	115	60-140	18				
Carbon tetrachloride	ug/L	ND	400	400	422	437	105	109	60-140	3				
Chlorobenzene	ug/L	ND	400	400	444	447	111	112	60-140	1				
Chloroethane	ug/L	ND	400	400	401	408	100	102	60-140	2				
Chloroform	ug/L	ND	400	400	428	432	107	108	60-140	1				
Chloromethane	ug/L	ND	400	400	360	382	90	96	60-140	6				
cis-1,2-Dichloroethene	ug/L	ND	400	400	424	431	106	108	60-140	1				
cis-1,3-Dichloropropene	ug/L	ND	400	400	429	435	107	109	60-140	1				
Dibromochloromethane	ug/L	ND	400	400	430	448	108	112	60-140	4				
Dibromomethane	ug/L	ND	400	400	432	452	108	113	60-140	5				
Dichlorodifluoromethane	ug/L	ND	400	400	409	412	102	103	60-140	1				
Diisopropyl ether	ug/L	ND	400	400	407	406	102	102	60-140	0				
Ethylbenzene	ug/L	1140	400	400	1600	1690	115	137	60-140	5				
Hexachloro-1,3-butadiene	ug/L	ND	400	400	398	434	100	108	60-140	9				
Isopropylbenzene (Cumene)	ug/L	41.4	400	400	507	515	116	118	60-140	2				
m&p-Xylene	ug/L	444	800	800	1330	1380	110	117	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	400	400	410	418	103	105	60-140	2				
Methylene Chloride	ug/L	ND	400	400	424	431	106	108	60-140	2				

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

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504297

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	443	467	111	117	60-140	5				
n-Propylbenzene	ug/L	123	400	400	571	597	112	118	60-140	4				
Naphthalene	ug/L	392	400	400	740	814	87	105	60-140	10				
o-Xylene	ug/L	85.6	400	400	532	535	112	112	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	460	473	115	118	60-140	3				
Styrene	ug/L	ND	400	400	436	442	109	110	60-140	1				
tert-Butylbenzene	ug/L	ND	400	400	391	403	98	101	60-140	3				
Tetrachloroethene	ug/L	ND	400	400	455	468	114	117	60-140	3				
Toluene	ug/L	133	400	400	561	579	107	112	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	400	400	442	449	110	112	60-140	2				
trans-1,3-Dichloropropene	ug/L	ND	400	400	410	422	103	105	60-140	3				
Trichloroethene	ug/L	ND	400	400	443	452	111	113	60-140	2				
Trichlorofluoromethane	ug/L	ND	400	400	416	420	104	105	60-140	1				
Vinyl chloride	ug/L	ND	400	400	400	412	100	103	60-140	3				
1,2-Dichloroethane-d4 (S)	%						102	102	70-130					
4-Bromofluorobenzene (S)	%						99	98	70-130					
Toluene-d8 (S)	%						98	98	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

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504297

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident
Pace Project No.: 92504297

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92504297001	14015_AC_RD_20201105	MADEPV	1572862	MADEP VPH	1572862
92504297001	14015_AC_RD_20201105	EPA 3010A	578431	EPA 6010D	578452
92504297001	14015_AC_RD_20201105	SM 6200B	578537		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Apex Companies

Address: Report To: Andrew Street

LAB U NO#: 92504297 Barcode

Number or Page: 15 of 15

Customer Project Name/Number: 2020-61-2448 Incident

Site/Facility ID #: NE / Huntersville

State: NC / County/City: I / PT I / MT I / CT I / ET

Turnaround Date Required: ASAP

Sample Disposal: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Main data table with columns for Customer Sample ID, Matrix, Comp / Grab, Collected (or Composite Start) Date, Composite End Date, Res CI, # of Chns, and various analysis results.

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Cont: 92504297

Lab Profile/line: Lab Sample Receipt Checklist

Custody Seals Present/Intact y/n NA, Custody Signatures Present y/n NA, Collector Signatures Present y/n NA, Bottles Intact y/n NA, Correct Bottles y/n NA, Sufficient Volume y/n NA, Samples Received on Ice y/n NA, VOA - Headspace Acceptable y/n NA, USA Regulated Soils y/n NA, Samples in Holding Time Residual Chlorine Present y/n NA, Cl Strips: y/n NA, Sample pH Acceptable y/n NA, pH Strips: y/n NA, Sulfide Present y/n NA, Lead Acetate Strips: y/n NA

LAB USE ONLY: Lab Sample # / Comments: 92504297

Table with columns for Type of Ice Used (Wet, Blue, Dry, None), Radchem sample(s) screened (<500 ppm), Y, N, NA, Lab Tracking #: 2560547, Samples received via FEDEX, UPS, Courier, MTIL LAB USE ONLY, and Lab Sample Temperature Info: Temp Blank Received: y/n NA, Therm ID#: 371069, Cooler 1 Temp Upon Receipt: 31.0C, Cooler 1 Therm Corr. Factor: 0.10C, Cooler 1 Corrected Temp: 31.0C

Relinquished by/Company: (Signature) Noomi Feltz / Apex

Relinquished by/Company: (Signature) Date/Time: 11-5-20 1530

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature)

Relinquished by/Company: (Signature) Date/Time: Received by/Company: (Signature)

Table #: MTIL LAB USE ONLY, Trip Blank Received: y/n NA, HCL MEQH TSP Other, Non Conformance(s): YES / NO

November 09, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92504298

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Cameron Lee, Montrose-EPS
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies

Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident
Pace Project No.: 92504298

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92504298

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92504298001	13800_HC_RD_20201105	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504298

Sample: 13800_HC_RD_20201105 **Lab ID:** 92504298001 Collected: 11/05/20 09:35 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/08/20 08:06	11/08/20 08:06		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/08/20 08:06	11/08/20 08:06		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/08/20 08:06	11/08/20 08:06	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/08/20 08:06	11/08/20 08:06	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.4	%	70.0-130	1	11/08/20 08:06	11/08/20 08:06	615-59-8FID	
2,5-Dibromotoluene (PID)	90.6	%	70.0-130	1	11/08/20 08:06	11/08/20 08:06	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	11/06/20 02:22	11/07/20 02:39	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		11/06/20 17:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 17:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 17:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 17:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 17:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 17:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 17:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 17:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 17:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 17:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 17:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 17:15	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/06/20 17:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 17:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 17:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 17:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 17:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 17:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 17:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 17:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 17:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 17:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 17:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 17:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 17:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 17:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 17:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 17:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 17:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 17:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 17:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 17:15	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504298

Sample: 13800_HC_RD_20201105 **Lab ID: 92504298001** Collected: 11/05/20 09:35 Received: 11/05/20 15:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 17:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 17:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 17:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 17:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 17:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 17:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 17:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 17:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 17:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 17:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 17:15	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 17:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 17:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 17:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 17:15	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 17:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 17:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 17:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 17:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 17:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 17:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 17:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 17:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 17:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 17:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 17:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 17:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 17:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		11/06/20 17:15	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/06/20 17:15	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/06/20 17:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504298

QC Batch: 1572862	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92504298001

METHOD BLANK: R3590775-3 Matrix: Water
Associated Lab Samples: 92504298001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/08/20 03:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/08/20 03:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/08/20 03:08	
Total VPH	ug/L	ND	100	11/08/20 03:08	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	11/08/20 03:08	
2,5-Dibromotoluene (PID)	%	84.4	70.0-130	11/08/20 03:08	

Parameter	Units	R3590775-1		R3590775-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C05-C08)	ug/L	1200	1100	1110	91.7	92.5	70.0-130	0.905	25
Aliphatic (C09-C12)	ug/L	1400	1180	1190	84.3	85.0	70.0-130	0.844	25
Aromatic (C09-C10),Unadjusted	ug/L	200	170	171	85.0	85.5	70.0-130	0.587	25
Total VPH	ug/L	2800	2450	2470	87.5	88.2	70.0-130	0.813	25
2,5-Dibromotoluene (FID)	%				90.7	93.1	70.0-130		
2,5-Dibromotoluene (PID)	%				91.6	93.9	70.0-130		

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504298

QC Batch: 578431	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92504298001

METHOD BLANK: 3060405 Matrix: Water
Associated Lab Samples: 92504298001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/07/20 01:40	

LABORATORY CONTROL SAMPLE: 3060406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	515	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060407 3060408

Parameter	Units	92504280001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Lead	ug/L	ND	500	500	519	521	103	104	75-125	0			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504298

QC Batch: 578537	Analysis Method: SM 6200B
QC Batch Method: SM 6200B	Analysis Description: 6200B MSV
	Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92504298001

METHOD BLANK: 3060816 Matrix: Water

Associated Lab Samples: 92504298001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
2,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
2-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
4-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
Benzene	ug/L	ND	0.50	11/06/20 12:11	
Bromobenzene	ug/L	ND	0.50	11/06/20 12:11	
Bromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromodichloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromoform	ug/L	ND	0.50	11/06/20 12:11	
Bromomethane	ug/L	ND	5.0	11/06/20 12:11	
Carbon tetrachloride	ug/L	ND	0.50	11/06/20 12:11	
Chlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
Chloroethane	ug/L	ND	1.0	11/06/20 12:11	
Chloroform	ug/L	ND	0.50	11/06/20 12:11	
Chloromethane	ug/L	ND	1.0	11/06/20 12:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Dibromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Dibromomethane	ug/L	ND	0.50	11/06/20 12:11	
Dichlorodifluoromethane	ug/L	ND	0.50	11/06/20 12:11	
Diisopropyl ether	ug/L	ND	0.50	11/06/20 12:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504298

METHOD BLANK: 3060816 Matrix: Water
Associated Lab Samples: 92504298001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/06/20 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/06/20 12:11	
m&p-Xylene	ug/L	ND	1.0	11/06/20 12:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/06/20 12:11	
Methylene Chloride	ug/L	ND	2.0	11/06/20 12:11	
n-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
n-Propylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Naphthalene	ug/L	ND	2.0	11/06/20 12:11	
o-Xylene	ug/L	ND	0.50	11/06/20 12:11	
sec-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Styrene	ug/L	ND	0.50	11/06/20 12:11	
tert-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Tetrachloroethene	ug/L	ND	0.50	11/06/20 12:11	
Toluene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Trichloroethene	ug/L	ND	0.50	11/06/20 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/20 12:11	
Vinyl chloride	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/06/20 12:11	
4-Bromofluorobenzene (S)	%	96	70-130	11/06/20 12:11	
Toluene-d8 (S)	%	100	70-130	11/06/20 12:11	

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	60-140	
1,1,2-Trichloroethane	ug/L	50	48.6	97	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	52.0	104	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.5	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	50.4	101	60-140	
1,2-Dichloroethane	ug/L	50	43.5	87	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504298

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,3-Dichloropropane	ug/L	50	50.9	102	60-140	
1,4-Dichlorobenzene	ug/L	50	50.8	102	60-140	
2,2-Dichloropropane	ug/L	50	49.9	100	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.5	99	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	48.3	97	60-140	
Bromochloromethane	ug/L	50	48.0	96	60-140	
Bromodichloromethane	ug/L	50	46.8	94	60-140	
Bromoform	ug/L	50	47.8	96	60-140	
Bromomethane	ug/L	50	54.1	108	60-140	
Carbon tetrachloride	ug/L	50	46.8	94	60-140	
Chlorobenzene	ug/L	50	49.4	99	60-140	
Chloroethane	ug/L	50	38.8	78	60-140	
Chloroform	ug/L	50	47.4	95	60-140	
Chloromethane	ug/L	50	41.0	82	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	51.3	103	60-140	
Dibromomethane	ug/L	50	50.2	100	60-140	
Dichlorodifluoromethane	ug/L	50	45.9	92	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	48.8	98	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.3	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	47.2	94	60-140	
Methylene Chloride	ug/L	50	45.7	91	60-140	
n-Butylbenzene	ug/L	50	52.7	105	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	54.3	109	60-140	
o-Xylene	ug/L	50	50.0	100	60-140	
sec-Butylbenzene	ug/L	50	50.4	101	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	49.8	100	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.7	97	60-140	
Trichlorofluoromethane	ug/L	50	41.7	83	60-140	
Vinyl chloride	ug/L	50	44.0	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504298

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	438	442	109	111	60-140	1				
1,1,1-Trichloroethane	ug/L	ND	400	400	438	450	110	113	60-140	3				
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	402	415	101	104	60-140	3				
1,1,2-Trichloroethane	ug/L	ND	400	400	415	424	104	106	60-140	2				
1,1-Dichloroethane	ug/L	ND	400	400	433	438	108	110	60-140	1				
1,1-Dichloroethene	ug/L	ND	400	400	489	494	122	124	60-140	1				
1,1-Dichloropropene	ug/L	ND	400	400	438	446	110	112	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	400	400	373	427	93	107	60-140	14				
1,2,3-Trichloropropane	ug/L	ND	400	400	402	418	101	105	60-140	4				
1,2,4-Trichlorobenzene	ug/L	ND	400	400	406	449	102	112	60-140	10				
1,2,4-Trimethylbenzene	ug/L	957	400	400	1390	1480	109	130	60-140	6				
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	411	447	103	112	60-140	8				
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	428	433	107	108	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	400	400	418	436	105	109	60-140	4				
1,2-Dichloroethane	ug/L	ND	400	400	393	392	97	96	60-140	0				
1,2-Dichloropropane	ug/L	ND	400	400	427	452	107	113	60-140	6				
1,3,5-Trimethylbenzene	ug/L	ND	400	400	504	514	126	129	60-140	2				
1,3-Dichlorobenzene	ug/L	ND	400	400	429	439	107	110	60-140	2				
1,3-Dichloropropane	ug/L	ND	400	400	436	437	109	109	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	400	400	424	443	106	111	60-140	4				
2,2-Dichloropropane	ug/L	ND	400	400	408	416	102	104	60-140	2				
2-Chlorotoluene	ug/L	ND	400	400	465	463	116	116	60-140	0				
4-Chlorotoluene	ug/L	ND	400	400	436	442	109	111	60-140	2				
Benzene	ug/L	2900	400	400	3300	3600	100	175	60-140	9 M1				
Bromobenzene	ug/L	ND	400	400	427	435	107	109	60-140	2				
Bromochloromethane	ug/L	ND	400	400	415	415	104	104	60-140	0				
Bromodichloromethane	ug/L	ND	400	400	415	432	104	108	60-140	4				
Bromoform	ug/L	ND	400	400	376	394	94	99	60-140	5				
Bromomethane	ug/L	ND	400	400	384	462	96	115	60-140	18				
Carbon tetrachloride	ug/L	ND	400	400	422	437	105	109	60-140	3				
Chlorobenzene	ug/L	ND	400	400	444	447	111	112	60-140	1				
Chloroethane	ug/L	ND	400	400	401	408	100	102	60-140	2				
Chloroform	ug/L	ND	400	400	428	432	107	108	60-140	1				
Chloromethane	ug/L	ND	400	400	360	382	90	96	60-140	6				
cis-1,2-Dichloroethene	ug/L	ND	400	400	424	431	106	108	60-140	1				
cis-1,3-Dichloropropene	ug/L	ND	400	400	429	435	107	109	60-140	1				
Dibromochloromethane	ug/L	ND	400	400	430	448	108	112	60-140	4				
Dibromomethane	ug/L	ND	400	400	432	452	108	113	60-140	5				
Dichlorodifluoromethane	ug/L	ND	400	400	409	412	102	103	60-140	1				
Diisopropyl ether	ug/L	ND	400	400	407	406	102	102	60-140	0				
Ethylbenzene	ug/L	1140	400	400	1600	1690	115	137	60-140	5				
Hexachloro-1,3-butadiene	ug/L	ND	400	400	398	434	100	108	60-140	9				
Isopropylbenzene (Cumene)	ug/L	41.4	400	400	507	515	116	118	60-140	2				
m&p-Xylene	ug/L	444	800	800	1330	1380	110	117	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	400	400	410	418	103	105	60-140	2				
Methylene Chloride	ug/L	ND	400	400	424	431	106	108	60-140	2				

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504298

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	443	467	111	117	60-140	5				
n-Propylbenzene	ug/L	123	400	400	571	597	112	118	60-140	4				
Naphthalene	ug/L	392	400	400	740	814	87	105	60-140	10				
o-Xylene	ug/L	85.6	400	400	532	535	112	112	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	460	473	115	118	60-140	3				
Styrene	ug/L	ND	400	400	436	442	109	110	60-140	1				
tert-Butylbenzene	ug/L	ND	400	400	391	403	98	101	60-140	3				
Tetrachloroethene	ug/L	ND	400	400	455	468	114	117	60-140	3				
Toluene	ug/L	133	400	400	561	579	107	112	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	400	400	442	449	110	112	60-140	2				
trans-1,3-Dichloropropene	ug/L	ND	400	400	410	422	103	105	60-140	3				
Trichloroethene	ug/L	ND	400	400	443	452	111	113	60-140	2				
Trichlorofluoromethane	ug/L	ND	400	400	416	420	104	105	60-140	1				
Vinyl chloride	ug/L	ND	400	400	400	412	100	103	60-140	3				
1,2-Dichloroethane-d4 (S)	%						102	102	70-130					
4-Bromofluorobenzene (S)	%						99	98	70-130					
Toluene-d8 (S)	%						98	98	70-130					

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504298

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident

Pace Project No.: 92504298

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92504298001	13800_HC_RD_20201105	MADEPV	1572862	MADEP VPH	1572862
92504298001	13800_HC_RD_20201105	EPA 3010A	578431	EPA 6010D	578452
92504298001	13800_HC_RD_20201105	SM 6200B	578537		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB NO#: 92504298



92504298

Container: 13800 Hinkersville Concord Rd

Tr Number or

Y

Company: Apex Companies

Report To: Andrew Street

Copy To: 13800 Hinkersville Concord Rd

Address: Apex Companies

Billing Information:

Email To: Andrew.Street@apex.com

Site Collection Info/Address: 13800 Hinkersville Concord Rd

State: NC County/City: Hinkersville Time Zone Collected: [] PT [] MT [] CT [] ET

Customer Project Name/Number: 2020-11-2448 Incident

Site/Facility ID #: NC / Hinkersville

Phone: DW PWS ID #: [] Yes [] No Compliance Monitoring? [] Yes [] No

Collected By (print): Nadmi Futz

Purchase Order #: DW Location Code: [] Yes [] No

Quote #: DW Location Code: [] Yes [] No

Turnaround Date Required: Immediately Packed on Ice: [] Yes [] No

Sample Disposal: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day

[] Archive: [] Hold: (Expedite Charges Apply)

Analysis: [] Yes [] No

Field Filtered (if applicable): [] Yes [] No

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Cns
13800 Hinkersville	DW	G	11-5-2019	15:30	11-5-2019	15:35	8	8

Analyses

VOLs 6200B

MADEP VPH

Lead

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Sample Receipt Checklist:

Lab Sample/Line:

Custody Seals Present/Intact: Y N NA

Custody Signatures Present: Y N NA

Collector Signatures Present: Y N NA

Bottles Intact: Y N NA

Correct Bottles: Y N NA

Sufficient Volume: Y N NA

Samples Received on Ice: Y N NA

VOA - Headspace Acceptable: Y N NA

USDA Regulated Soils: Y N NA

Samples in Holding Time: Y N NA

Residual Chlorine Present: Y N NA

Cl Strips: Y N NA

Sample pH Acceptable: Y N NA

pH Strips: Y N NA

Sulfide Present: Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY:

Lab Sample # / Comments: 9180 4298

9180 4298

COI

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 ppm): Y N N

SHORT HOLDS PRESENT (<72 hours): Y N/A

Relinquished by/Company: (Signature) Nadmi Futz

Date/Time: 11-5-2019 15:30

Received by/Company: (Signature) [Signature]

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Lab Tracking #: 2560542

Samples received via: FEDEX UPS

Courier: Pace Courier

Date/Time: 11-5-2019

Table #: []

Accnum: []

Template: []

Prelogin: []

MTL LAB USE ONLY

Date/Time:

Received by/Company: (Signature)

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 921061

Cooler 1 Temp Upon Receipt: 3.1 OC

Cooler 1 Therm Corr. Factor: 0 OC

Cooler 1 Corrected Temp: 3.1 OC

Tip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): Page: [] of: []

November 09, 2020

Andrew Street
Apex Companies - NC
5900 Northwoods Business Pkwy
Suite 5900-0
Charlotte, NC 28269

RE: Project: 2020-LI-2448 Incident
Pace Project No.: 92504300

Dear Andrew Street:

Enclosed are the analytical results for sample(s) received by the laboratory on November 05, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Angela Baioni
angela.baioni@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline
Margaret King, APEX Companies, LLC
Cameron Lee, Montrose-EPS
Emily Little, Apex Companies
Jeff Morrison, Colonial Pipeline Company
Tom Naumann, APEX Companies - NC
Joe Nicolette, Montrose-EPS
Christopher Schultz, Apex Companies

Alex Testoff, Montrose-EPS
Michael Verdon, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92504300001	FB-1	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92504300002	DUP-1	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92504300003	TRIP BLANK	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

Sample: FB-1	Lab ID: 92504300001	Collected: 11/05/20 00:00	Received: 11/05/20 15:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/08/20 08:40	11/08/20 08:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/08/20 08:40	11/08/20 08:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/08/20 08:40	11/08/20 08:40	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/08/20 08:40	11/08/20 08:40	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.7	%	70.0-130	1	11/08/20 08:40	11/08/20 08:40	615-59-8FID	
2,5-Dibromotoluene (PID)	90.8	%	70.0-130	1	11/08/20 08:40	11/08/20 08:40	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	11/06/20 02:22	11/07/20 02:43	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		11/06/20 12:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 12:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 12:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 12:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 12:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 12:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 12:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 12:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 12:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 12:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 12:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 12:47	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/06/20 12:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 12:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 12:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 12:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 12:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 12:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 12:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 12:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 12:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 12:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 12:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 12:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 12:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 12:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 12:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 12:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 12:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 12:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 12:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 12:47	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

Sample: FB-1	Lab ID: 92504300001	Collected: 11/05/20 00:00	Received: 11/05/20 15:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 12:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 12:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 12:47	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 12:47	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 12:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 12:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 12:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 12:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 12:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 12:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 12:47	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 12:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 12:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 12:47	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 12:47	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 12:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 12:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 12:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 12:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 12:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 12:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 12:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 12:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 12:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 12:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 12:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 12:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 12:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		11/06/20 12:47	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/06/20 12:47	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/06/20 12:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

Sample: DUP-1	Lab ID: 92504300002	Collected: 11/05/20 00:00	Received: 11/05/20 15:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	11/08/20 09:13	11/08/20 09:13		
Aliphatic (C09-C12)	ND	ug/L	100	1	11/08/20 09:13	11/08/20 09:13		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	11/08/20 09:13	11/08/20 09:13	TPHC9C10A	
Total VPH	ND	ug/L	100	1	11/08/20 09:13	11/08/20 09:13	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.9	%	70.0-130	1	11/08/20 09:13	11/08/20 09:13	615-59-8FID	
2,5-Dibromotoluene (PID)	89.8	%	70.0-130	1	11/08/20 09:13	11/08/20 09:13	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	11/06/20 02:22	11/07/20 02:47	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		11/06/20 17:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 17:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 17:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 17:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 17:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 17:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 17:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 17:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 17:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 17:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 17:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 17:33	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/06/20 17:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 17:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 17:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 17:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 17:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 17:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 17:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 17:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 17:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 17:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 17:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 17:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 17:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 17:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 17:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 17:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 17:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 17:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 17:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 17:33	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident
Pace Project No.: 92504300

Sample: DUP-1	Lab ID: 92504300002	Collected: 11/05/20 00:00	Received: 11/05/20 15:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 17:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 17:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 17:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 17:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 17:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 17:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 17:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 17:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 17:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 17:33	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 17:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 17:33	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 17:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 17:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 17:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 17:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 17:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 17:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 17:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 17:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 17:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 17:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 17:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 17:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 17:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		11/06/20 17:33	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		11/06/20 17:33	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/06/20 17:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

Sample: TRIP BLANK	Lab ID: 92504300003	Collected: 11/05/20 00:00	Received: 11/05/20 15:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		11/06/20 13:05	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/06/20 13:05	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/06/20 13:05	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/06/20 13:05	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/06/20 13:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/06/20 13:05	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		11/06/20 13:05	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/06/20 13:05	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/06/20 13:05	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		11/06/20 13:05	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/06/20 13:05	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/06/20 13:05	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/06/20 13:05	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/06/20 13:05	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 13:05	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/06/20 13:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/06/20 13:05	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/06/20 13:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/06/20 13:05	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/06/20 13:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 13:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 13:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/06/20 13:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/06/20 13:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/06/20 13:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/06/20 13:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/06/20 13:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 13:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/06/20 13:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 13:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/06/20 13:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/06/20 13:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		11/06/20 13:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 13:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/06/20 13:05	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/06/20 13:05	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		11/06/20 13:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/06/20 13:05	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/06/20 13:05	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/06/20 13:05	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/06/20 13:05	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/06/20 13:05	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/06/20 13:05	103-65-1	
Styrene	ND	ug/L	0.50	1		11/06/20 13:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 13:05	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/06/20 13:05	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

Sample: TRIP BLANK	Lab ID: 92504300003	Collected: 11/05/20 00:00	Received: 11/05/20 15:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		11/06/20 13:05	127-18-4	
Toluene	ND	ug/L	0.50	1		11/06/20 13:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 13:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/06/20 13:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/06/20 13:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/06/20 13:05	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/06/20 13:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/06/20 13:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/06/20 13:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 13:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/06/20 13:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/06/20 13:05	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/06/20 13:05	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/06/20 13:05	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/06/20 13:05	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/06/20 13:05	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		11/06/20 13:05	2037-26-5	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

QC Batch: 1572862	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92504300001, 92504300002

METHOD BLANK: R3590775-3 Matrix: Water

Associated Lab Samples: 92504300001, 92504300002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	11/08/20 03:08	
Aliphatic (C09-C12)	ug/L	ND	100	11/08/20 03:08	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	11/08/20 03:08	
Total VPH	ug/L	ND	100	11/08/20 03:08	
2,5-Dibromotoluene (FID)	%	86.4	70.0-130	11/08/20 03:08	
2,5-Dibromotoluene (PID)	%	84.4	70.0-130	11/08/20 03:08	

LABORATORY CONTROL SAMPLE & LCSD: R3590775-1 R3590775-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1100	1110	91.7	92.5	70.0-130	0.905	25	
Aliphatic (C09-C12)	ug/L	1400	1180	1190	84.3	85.0	70.0-130	0.844	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	170	171	85.0	85.5	70.0-130	0.587	25	
Total VPH	ug/L	2800	2450	2470	87.5	88.2	70.0-130	0.813	25	
2,5-Dibromotoluene (FID)	%				90.7	93.1	70.0-130			
2,5-Dibromotoluene (PID)	%				91.6	93.9	70.0-130			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504300

QC Batch: 578431	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92504300001, 92504300002

METHOD BLANK: 3060405 Matrix: Water

Associated Lab Samples: 92504300001, 92504300002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	11/07/20 01:40	

LABORATORY CONTROL SAMPLE: 3060406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	515	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3060407 3060408

Parameter	Units	92504280001 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result	% Rec	% Rec					
Lead	ug/L	ND	500	519	500	521	103	104	75-125	0			

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

QC Batch: 578537

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92504300001, 92504300002, 92504300003

METHOD BLANK: 3060816

Matrix: Water

Associated Lab Samples: 92504300001, 92504300002, 92504300003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
1,1-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/06/20 12:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloroethane	ug/L	ND	0.50	11/06/20 12:11	
1,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
1,3-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
2,2-Dichloropropane	ug/L	ND	0.50	11/06/20 12:11	
2-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
4-Chlorotoluene	ug/L	ND	0.50	11/06/20 12:11	
Benzene	ug/L	ND	0.50	11/06/20 12:11	
Bromobenzene	ug/L	ND	0.50	11/06/20 12:11	
Bromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromodichloromethane	ug/L	ND	0.50	11/06/20 12:11	
Bromoform	ug/L	ND	0.50	11/06/20 12:11	
Bromomethane	ug/L	ND	5.0	11/06/20 12:11	
Carbon tetrachloride	ug/L	ND	0.50	11/06/20 12:11	
Chlorobenzene	ug/L	ND	0.50	11/06/20 12:11	
Chloroethane	ug/L	ND	1.0	11/06/20 12:11	
Chloroform	ug/L	ND	0.50	11/06/20 12:11	
Chloromethane	ug/L	ND	1.0	11/06/20 12:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Dibromochloromethane	ug/L	ND	0.50	11/06/20 12:11	
Dibromomethane	ug/L	ND	0.50	11/06/20 12:11	
Dichlorodifluoromethane	ug/L	ND	0.50	11/06/20 12:11	
Diisopropyl ether	ug/L	ND	0.50	11/06/20 12:11	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident
Pace Project No.: 92504300

METHOD BLANK: 3060816 Matrix: Water
Associated Lab Samples: 92504300001, 92504300002, 92504300003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/06/20 12:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/06/20 12:11	
m&p-Xylene	ug/L	ND	1.0	11/06/20 12:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/06/20 12:11	
Methylene Chloride	ug/L	ND	2.0	11/06/20 12:11	
n-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
n-Propylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Naphthalene	ug/L	ND	2.0	11/06/20 12:11	
o-Xylene	ug/L	ND	0.50	11/06/20 12:11	
sec-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Styrene	ug/L	ND	0.50	11/06/20 12:11	
tert-Butylbenzene	ug/L	ND	0.50	11/06/20 12:11	
Tetrachloroethene	ug/L	ND	0.50	11/06/20 12:11	
Toluene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/06/20 12:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/06/20 12:11	
Trichloroethene	ug/L	ND	0.50	11/06/20 12:11	
Trichlorofluoromethane	ug/L	ND	1.0	11/06/20 12:11	
Vinyl chloride	ug/L	ND	1.0	11/06/20 12:11	
1,2-Dichloroethane-d4 (S)	%	99	70-130	11/06/20 12:11	
4-Bromofluorobenzene (S)	%	96	70-130	11/06/20 12:11	
Toluene-d8 (S)	%	100	70-130	11/06/20 12:11	

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	47.8	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.8	98	60-140	
1,1,2-Trichloroethane	ug/L	50	48.6	97	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	52.0	104	60-140	
1,1-Dichloropropene	ug/L	50	49.0	98	60-140	
1,2,3-Trichlorobenzene	ug/L	50	50.4	101	60-140	
1,2,3-Trichloropropane	ug/L	50	48.5	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.5	107	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.5	103	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	52.7	105	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.3	101	60-140	
1,2-Dichlorobenzene	ug/L	50	50.4	101	60-140	
1,2-Dichloroethane	ug/L	50	43.5	87	60-140	
1,2-Dichloropropane	ug/L	50	47.9	96	60-140	
1,3,5-Trimethylbenzene	ug/L	50	50.0	100	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

LABORATORY CONTROL SAMPLE: 3060817

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	51.2	102	60-140	
1,3-Dichloropropane	ug/L	50	50.9	102	60-140	
1,4-Dichlorobenzene	ug/L	50	50.8	102	60-140	
2,2-Dichloropropane	ug/L	50	49.9	100	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.5	99	60-140	
Benzene	ug/L	50	48.0	96	60-140	
Bromobenzene	ug/L	50	48.3	97	60-140	
Bromochloromethane	ug/L	50	48.0	96	60-140	
Bromodichloromethane	ug/L	50	46.8	94	60-140	
Bromoform	ug/L	50	47.8	96	60-140	
Bromomethane	ug/L	50	54.1	108	60-140	
Carbon tetrachloride	ug/L	50	46.8	94	60-140	
Chlorobenzene	ug/L	50	49.4	99	60-140	
Chloroethane	ug/L	50	38.8	78	60-140	
Chloroform	ug/L	50	47.4	95	60-140	
Chloromethane	ug/L	50	41.0	82	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.1	100	60-140	
Dibromochloromethane	ug/L	50	51.3	103	60-140	
Dibromomethane	ug/L	50	50.2	100	60-140	
Dichlorodifluoromethane	ug/L	50	45.9	92	60-140	
Diisopropyl ether	ug/L	50	45.1	90	60-140	
Ethylbenzene	ug/L	50	48.8	98	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.3	97	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	60-140	
m&p-Xylene	ug/L	100	99.9	100	60-140	
Methyl-tert-butyl ether	ug/L	50	47.2	94	60-140	
Methylene Chloride	ug/L	50	45.7	91	60-140	
n-Butylbenzene	ug/L	50	52.7	105	60-140	
n-Propylbenzene	ug/L	50	50.4	101	60-140	
Naphthalene	ug/L	50	54.3	109	60-140	
o-Xylene	ug/L	50	50.0	100	60-140	
sec-Butylbenzene	ug/L	50	50.4	101	60-140	
Styrene	ug/L	50	50.5	101	60-140	
tert-Butylbenzene	ug/L	50	43.2	86	60-140	
Tetrachloroethene	ug/L	50	49.8	100	60-140	
Toluene	ug/L	50	47.8	96	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.8	98	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.7	97	60-140	
Trichlorofluoromethane	ug/L	50	41.7	83	60-140	
Vinyl chloride	ug/L	50	44.0	88	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	400	400	438	442	109	111	60-140	1				
1,1,1-Trichloroethane	ug/L	ND	400	400	438	450	110	113	60-140	3				
1,1,2,2-Tetrachloroethane	ug/L	ND	400	400	402	415	101	104	60-140	3				
1,1,2-Trichloroethane	ug/L	ND	400	400	415	424	104	106	60-140	2				
1,1-Dichloroethane	ug/L	ND	400	400	433	438	108	110	60-140	1				
1,1-Dichloroethene	ug/L	ND	400	400	489	494	122	124	60-140	1				
1,1-Dichloropropene	ug/L	ND	400	400	438	446	110	112	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	400	400	373	427	93	107	60-140	14				
1,2,3-Trichloropropane	ug/L	ND	400	400	402	418	101	105	60-140	4				
1,2,4-Trichlorobenzene	ug/L	ND	400	400	406	449	102	112	60-140	10				
1,2,4-Trimethylbenzene	ug/L	957	400	400	1390	1480	109	130	60-140	6				
1,2-Dibromo-3-chloropropane	ug/L	ND	400	400	411	447	103	112	60-140	8				
1,2-Dibromoethane (EDB)	ug/L	ND	400	400	428	433	107	108	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	400	400	418	436	105	109	60-140	4				
1,2-Dichloroethane	ug/L	ND	400	400	393	392	97	96	60-140	0				
1,2-Dichloropropane	ug/L	ND	400	400	427	452	107	113	60-140	6				
1,3,5-Trimethylbenzene	ug/L	ND	400	400	504	514	126	129	60-140	2				
1,3-Dichlorobenzene	ug/L	ND	400	400	429	439	107	110	60-140	2				
1,3-Dichloropropane	ug/L	ND	400	400	436	437	109	109	60-140	0				
1,4-Dichlorobenzene	ug/L	ND	400	400	424	443	106	111	60-140	4				
2,2-Dichloropropane	ug/L	ND	400	400	408	416	102	104	60-140	2				
2-Chlorotoluene	ug/L	ND	400	400	465	463	116	116	60-140	0				
4-Chlorotoluene	ug/L	ND	400	400	436	442	109	111	60-140	2				
Benzene	ug/L	2900	400	400	3300	3600	100	175	60-140	9	M1			
Bromobenzene	ug/L	ND	400	400	427	435	107	109	60-140	2				
Bromochloromethane	ug/L	ND	400	400	415	415	104	104	60-140	0				
Bromodichloromethane	ug/L	ND	400	400	415	432	104	108	60-140	4				
Bromoform	ug/L	ND	400	400	376	394	94	99	60-140	5				
Bromomethane	ug/L	ND	400	400	384	462	96	115	60-140	18				
Carbon tetrachloride	ug/L	ND	400	400	422	437	105	109	60-140	3				
Chlorobenzene	ug/L	ND	400	400	444	447	111	112	60-140	1				
Chloroethane	ug/L	ND	400	400	401	408	100	102	60-140	2				
Chloroform	ug/L	ND	400	400	428	432	107	108	60-140	1				
Chloromethane	ug/L	ND	400	400	360	382	90	96	60-140	6				
cis-1,2-Dichloroethene	ug/L	ND	400	400	424	431	106	108	60-140	1				
cis-1,3-Dichloropropene	ug/L	ND	400	400	429	435	107	109	60-140	1				
Dibromochloromethane	ug/L	ND	400	400	430	448	108	112	60-140	4				
Dibromomethane	ug/L	ND	400	400	432	452	108	113	60-140	5				
Dichlorodifluoromethane	ug/L	ND	400	400	409	412	102	103	60-140	1				
Diisopropyl ether	ug/L	ND	400	400	407	406	102	102	60-140	0				
Ethylbenzene	ug/L	1140	400	400	1600	1690	115	137	60-140	5				
Hexachloro-1,3-butadiene	ug/L	ND	400	400	398	434	100	108	60-140	9				
Isopropylbenzene (Cumene)	ug/L	41.4	400	400	507	515	116	118	60-140	2				
m&p-Xylene	ug/L	444	800	800	1330	1380	110	117	60-140	4				
Methyl-tert-butyl ether	ug/L	ND	400	400	410	418	103	105	60-140	2				
Methylene Chloride	ug/L	ND	400	400	424	431	106	108	60-140	2				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

Parameter	92502947003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	400	400	443	467	111	117	60-140	5				
n-Propylbenzene	ug/L	123	400	400	571	597	112	118	60-140	4				
Naphthalene	ug/L	392	400	400	740	814	87	105	60-140	10				
o-Xylene	ug/L	85.6	400	400	532	535	112	112	60-140	1				
sec-Butylbenzene	ug/L	ND	400	400	460	473	115	118	60-140	3				
Styrene	ug/L	ND	400	400	436	442	109	110	60-140	1				
tert-Butylbenzene	ug/L	ND	400	400	391	403	98	101	60-140	3				
Tetrachloroethene	ug/L	ND	400	400	455	468	114	117	60-140	3				
Toluene	ug/L	133	400	400	561	579	107	112	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	400	400	442	449	110	112	60-140	2				
trans-1,3-Dichloropropene	ug/L	ND	400	400	410	422	103	105	60-140	3				
Trichloroethene	ug/L	ND	400	400	443	452	111	113	60-140	2				
Trichlorofluoromethane	ug/L	ND	400	400	416	420	104	105	60-140	1				
Vinyl chloride	ug/L	ND	400	400	400	412	100	103	60-140	3				
1,2-Dichloroethane-d4 (S)	%						102	102	70-130					
4-Bromofluorobenzene (S)	%						99	98	70-130					
Toluene-d8 (S)	%						98	98	70-130					

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QUALIFIERS

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2020-LI-2448 Incident

Pace Project No.: 92504300

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92504300001	FB-1	MADEPV	1572862	MADEP VPH	1572862
92504300002	DUP-1	MADEPV	1572862	MADEP VPH	1572862
92504300001	FB-1	EPA 3010A	578431	EPA 6010D	578452
92504300002	DUP-1	EPA 3010A	578431	EPA 6010D	578452
92504300001	FB-1	SM 6200B	578537		
92504300002	DUP-1	SM 6200B	578537		
92504300003	TRIP BLANK	SM 6200B	578537		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

LAB NO#: 92504300

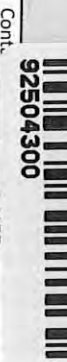
Lot Number or

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: Apex Companies
Address: 2620 LI-2448 Incident

Report To: Andrew Street
Copy To: Andrew Street & apexcos.com
Email To: Andrew Street & apexcos.com
Site Collection Info/Address: NC Huntersville



Lab Project Manager: Y

Customer Project Name/Number: 2620-LI-2448 Incident
State: County/City: Time Zone Collected:
Site/Facility ID #: Compliance Monitoring?
Purchase Order #: DW PWS ID #: DW Location Code:
Quoted #: Immediately Packed on Ice:
Collected By (print):
Collected By (signature):
Sample Disposal:
Rush:
Disposition as appropriate:
Hold:

**Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line:
Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signature Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: Y N NA
Sample pH Acceptable Y N NA
pH Strips: Y N NA
Sulfide Present Y N NA
Lead Acetate Strips: Y N NA

Table with columns: Matrix *, Comp / Grab, Collected (or Composite Start) Date, Composite End Date, Res Cl, # of Ctns

Matrix *
Comp / Grab
Collected (or Composite Start) Date
Composite End Date
Res Cl
of Ctns

LAB USE ONLY:
Lab Sample # / Comments:
82504300
001 003
002

Table with columns: Trip Blank, FB-1, DW-1, Matrix *, Comp / Grab, Collected (or Composite Start) Date, Composite End Date, Res Cl, # of Ctns

Lab Tracking #: 2560543
SHORT HOLDS PRESENT (<72 hours): Y N/A

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 527068
Cooler 1 Temp Upon Receipt: 36 oC
Cooler 1 Temp Corr. Factor: oC
Cooler 1 Corrected Temp: 71 oC
Comments:

Customer Remarks / Special Conditions / Possible Hazards:
Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS
Courier: Pace Courier
Date/Time: 11-5-20 1530

Relinquished by/Company: (Signature)
Date/Time: 11-5-20 1530
Received by/Company: (Signature)

October 26, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501343

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501343

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification #: 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification #: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501343001	MW-16	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501343002	MW-17	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501343003	MW-19	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501343004	MW-21	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501343005	MW-23R	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501343006	MW-31	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501343007	MW-40	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501343008	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-16	Lab ID: 92501343001	Collected: 10/20/20 10:00	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 00:05	10/24/20 00:05		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 00:05	10/24/20 00:05		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 00:05	10/24/20 00:05	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/24/20 00:05	10/24/20 00:05	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.3	%	70.0-130	1	10/24/20 00:05	10/24/20 00:05	615-59-8FID	
2,5-Dibromotoluene (PID)	95.2	%	70.0-130	1	10/24/20 00:05	10/24/20 00:05	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	7.8	ug/L	5.0	1	10/21/20 01:39	10/21/20 18:27	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 00:22	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 00:22	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 00:22	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 00:22	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 00:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 00:22	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 00:22	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 00:22	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 00:22	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 00:22	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 00:22	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 00:22	75-00-3	
Chloroform	2.0	ug/L	0.50	1		10/22/20 00:22	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 00:22	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 00:22	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 00:22	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 00:22	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 00:22	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 00:22	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 00:22	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 00:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 00:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 00:22	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 00:22	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 00:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 00:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 00:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 00:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 00:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 00:22	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 00:22	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 00:22	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-16	Lab ID: 92501343001	Collected: 10/20/20 10:00	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 00:22	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 00:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 00:22	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 00:22	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 00:22	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 00:22	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 00:22	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 00:22	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 00:22	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 00:22	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 00:22	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 00:22	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 00:22	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 00:22	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 00:22	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/20 00:22	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 00:22	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 00:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 00:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 00:22	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 00:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 00:22	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 00:22	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 00:22	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 00:22	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 00:22	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 00:22	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 00:22	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/22/20 00:22	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/22/20 00:22	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/22/20 00:22	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-17	Lab ID: 92501343002	Collected: 10/20/20 11:00	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 00:37	10/24/20 00:37		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 00:37	10/24/20 00:37		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 00:37	10/24/20 00:37	TPHC9C10A	
Total VPH	152	ug/L	100	1	10/24/20 00:37	10/24/20 00:37	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.6	%	70.0-130	1	10/24/20 00:37	10/24/20 00:37	615-59-8FID	
2,5-Dibromotoluene (PID)	98.6	%	70.0-130	1	10/24/20 00:37	10/24/20 00:37	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/21/20 01:39	10/21/20 18:40	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 00:40	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 00:40	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 00:40	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 00:40	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 00:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 00:40	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 00:40	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 00:40	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 00:40	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 00:40	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 00:40	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 00:40	75-00-3	
Chloroform	8.9	ug/L	0.50	1		10/22/20 00:40	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 00:40	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 00:40	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 00:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 00:40	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 00:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 00:40	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 00:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 00:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 00:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 00:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 00:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 00:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 00:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 00:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 00:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 00:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 00:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 00:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 00:40	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-17	Lab ID: 92501343002	Collected: 10/20/20 11:00	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 00:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 00:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 00:40	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 00:40	108-20-3	
Ethylbenzene	0.82	ug/L	0.50	1		10/22/20 00:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 00:40	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 00:40	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 00:40	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 00:40	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 00:40	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 00:40	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 00:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 00:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 00:40	79-34-5	
Tetrachloroethene	1.2	ug/L	0.50	1		10/22/20 00:40	127-18-4	
Toluene	2.1	ug/L	0.50	1		10/22/20 00:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 00:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 00:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 00:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 00:40	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 00:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 00:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 00:40	96-18-4	
1,2,4-Trimethylbenzene	2.0	ug/L	0.50	1		10/22/20 00:40	95-63-6	
1,3,5-Trimethylbenzene	0.71	ug/L	0.50	1		10/22/20 00:40	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 00:40	75-01-4	
m&p-Xylene	3.6	ug/L	1.0	1		10/22/20 00:40	179601-23-1	
o-Xylene	1.8	ug/L	0.50	1		10/22/20 00:40	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/22/20 00:40	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/22/20 00:40	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/22/20 00:40	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-19	Lab ID: 92501343003	Collected: 10/20/20 11:30	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 01:10	10/24/20 01:10		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 01:10	10/24/20 01:10		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 01:10	10/24/20 01:10	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/24/20 01:10	10/24/20 01:10	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.6	%	70.0-130	1	10/24/20 01:10	10/24/20 01:10	615-59-8FID	
2,5-Dibromotoluene (PID)	102	%	70.0-130	1	10/24/20 01:10	10/24/20 01:10	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	71.3	ug/L	5.0	1	10/21/20 01:39	10/21/20 18:43	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 00:58	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 00:58	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 00:58	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 00:58	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 00:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 00:58	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 00:58	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 00:58	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 00:58	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 00:58	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 00:58	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 00:58	75-00-3	
Chloroform	8.9	ug/L	0.50	1		10/22/20 00:58	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 00:58	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 00:58	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 00:58	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 00:58	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 00:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 00:58	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 00:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 00:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 00:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 00:58	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 00:58	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 00:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 00:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 00:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 00:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 00:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 00:58	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 00:58	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 00:58	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-19	Lab ID: 92501343003	Collected: 10/20/20 11:30	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 00:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 00:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 00:58	10061-02-6	
Diisopropyl ether	1.3	ug/L	0.50	1		10/22/20 00:58	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 00:58	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 00:58	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 00:58	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 00:58	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 00:58	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 00:58	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 00:58	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 00:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 00:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 00:58	79-34-5	
Tetrachloroethene	1.1	ug/L	0.50	1		10/22/20 00:58	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/20 00:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 00:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 00:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 00:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 00:58	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 00:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 00:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 00:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 00:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 00:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 00:58	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 00:58	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 00:58	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/22/20 00:58	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/22/20 00:58	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/22/20 00:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-21	Lab ID: 92501343004	Collected: 10/20/20 09:50	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	187	ug/L	100	1	10/24/20 01:44	10/24/20 01:44		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 01:44	10/24/20 01:44		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 01:44	10/24/20 01:44	TPHC9C10A	
Total VPH	251	ug/L	100	1	10/24/20 01:44	10/24/20 01:44	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.4	%	70.0-130	1	10/24/20 01:44	10/24/20 01:44	615-59-8FID	
2,5-Dibromotoluene (PID)	101	%	70.0-130	1	10/24/20 01:44	10/24/20 01:44	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	8.1	ug/L	5.0	1	10/21/20 01:39	10/21/20 18:47	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	38.0	ug/L	0.50	1		10/22/20 01:16	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 01:16	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 01:16	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 01:16	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 01:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 01:16	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 01:16	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 01:16	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 01:16	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 01:16	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 01:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 01:16	75-00-3	
Chloroform	5.8	ug/L	0.50	1		10/22/20 01:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 01:16	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 01:16	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 01:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 01:16	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 01:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 01:16	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 01:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 01:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 01:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 01:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 01:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 01:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 01:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 01:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 01:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 01:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 01:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 01:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 01:16	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501343

Sample: MW-21	Lab ID: 92501343004	Collected: 10/20/20 09:50	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 01:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 01:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 01:16	10061-02-6	
Diisopropyl ether	12.2	ug/L	0.50	1		10/22/20 01:16	108-20-3	
Ethylbenzene	2.2	ug/L	0.50	1		10/22/20 01:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 01:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 01:16	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 01:16	75-09-2	
Methyl-tert-butyl ether	4.8	ug/L	0.50	1		10/22/20 01:16	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 01:16	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 01:16	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 01:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 01:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 01:16	79-34-5	
Tetrachloroethene	0.93	ug/L	0.50	1		10/22/20 01:16	127-18-4	
Toluene	44.9	ug/L	0.50	1		10/22/20 01:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 01:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 01:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 01:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 01:16	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 01:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 01:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 01:16	96-18-4	
1,2,4-Trimethylbenzene	2.3	ug/L	0.50	1		10/22/20 01:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 01:16	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 01:16	75-01-4	
m&p-Xylene	14.2	ug/L	1.0	1		10/22/20 01:16	179601-23-1	
o-Xylene	7.7	ug/L	0.50	1		10/22/20 01:16	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/22/20 01:16	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/22/20 01:16	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/22/20 01:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-23R	Lab ID: 92501343005	Collected: 10/20/20 10:10	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 02:17	10/24/20 02:17		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 02:17	10/24/20 02:17		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 02:17	10/24/20 02:17	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/24/20 02:17	10/24/20 02:17	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.5	%	70.0-130	1	10/24/20 02:17	10/24/20 02:17	615-59-8FID	
2,5-Dibromotoluene (PID)	99.7	%	70.0-130	1	10/24/20 02:17	10/24/20 02:17	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	94.4	ug/L	5.0	1	10/21/20 01:39	10/21/20 18:50	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 01:34	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 01:34	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 01:34	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 01:34	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 01:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 01:34	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 01:34	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 01:34	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 01:34	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 01:34	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 01:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 01:34	75-00-3	
Chloroform	1.7	ug/L	0.50	1		10/22/20 01:34	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 01:34	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 01:34	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 01:34	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 01:34	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 01:34	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 01:34	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 01:34	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 01:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 01:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 01:34	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 01:34	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 01:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 01:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 01:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 01:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 01:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 01:34	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 01:34	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 01:34	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-23R	Lab ID: 92501343005	Collected: 10/20/20 10:10	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 01:34	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 01:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 01:34	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 01:34	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 01:34	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 01:34	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 01:34	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 01:34	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 01:34	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 01:34	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 01:34	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 01:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 01:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 01:34	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 01:34	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/20 01:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 01:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 01:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 01:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 01:34	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 01:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 01:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 01:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 01:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 01:34	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 01:34	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 01:34	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 01:34	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/22/20 01:34	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/22/20 01:34	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/22/20 01:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-31	Lab ID: 92501343006	Collected: 10/20/20 11:05	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 02:56	10/24/20 02:56		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 02:56	10/24/20 02:56		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 02:56	10/24/20 02:56	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/24/20 02:56	10/24/20 02:56	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	83.4	%	70.0-130	1	10/24/20 02:56	10/24/20 02:56	615-59-8FID	
2,5-Dibromotoluene (PID)	92.5	%	70.0-130	1	10/24/20 02:56	10/24/20 02:56	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:00	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 01:52	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 01:52	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 01:52	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 01:52	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 01:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 01:52	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 01:52	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 01:52	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 01:52	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 01:52	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 01:52	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 01:52	75-00-3	
Chloroform	1.4	ug/L	0.50	1		10/22/20 01:52	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 01:52	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 01:52	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 01:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 01:52	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 01:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 01:52	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 01:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 01:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 01:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 01:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 01:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 01:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 01:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 01:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 01:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 01:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 01:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 01:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 01:52	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-31	Lab ID: 92501343006	Collected: 10/20/20 11:05	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 01:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 01:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 01:52	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 01:52	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 01:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 01:52	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 01:52	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 01:52	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 01:52	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 01:52	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 01:52	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 01:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 01:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 01:52	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 01:52	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/20 01:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 01:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 01:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 01:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 01:52	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 01:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 01:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 01:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 01:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 01:52	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 01:52	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 01:52	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 01:52	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/22/20 01:52	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/22/20 01:52	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/22/20 01:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-40	Lab ID: 92501343007	Collected: 10/20/20 10:55	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 03:29	10/24/20 03:29		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 03:29	10/24/20 03:29		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 03:29	10/24/20 03:29	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/24/20 03:29	10/24/20 03:29	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.3	%	70.0-130	1	10/24/20 03:29	10/24/20 03:29	615-59-8FID	
2,5-Dibromotoluene (PID)	98.4	%	70.0-130	1	10/24/20 03:29	10/24/20 03:29	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	9.1	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:03	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 02:10	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 02:10	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 02:10	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 02:10	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 02:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 02:10	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 02:10	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 02:10	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 02:10	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 02:10	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 02:10	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 02:10	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/22/20 02:10	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 02:10	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 02:10	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 02:10	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 02:10	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 02:10	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 02:10	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 02:10	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 02:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 02:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 02:10	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 02:10	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 02:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 02:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 02:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 02:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 02:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 02:10	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 02:10	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 02:10	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: MW-40	Lab ID: 92501343007	Collected: 10/20/20 10:55	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 02:10	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 02:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 02:10	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 02:10	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 02:10	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 02:10	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 02:10	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 02:10	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 02:10	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 02:10	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 02:10	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 02:10	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 02:10	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 02:10	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 02:10	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/20 02:10	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 02:10	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 02:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 02:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 02:10	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 02:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 02:10	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 02:10	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 02:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 02:10	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 02:10	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 02:10	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 02:10	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/22/20 02:10	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/22/20 02:10	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/22/20 02:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: Trip Blank		Lab ID: 92501343008	Collected: 10/20/20 00:00	Received: 10/20/20 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/21/20 23:29	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/21/20 23:29	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/21/20 23:29	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/21/20 23:29	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/21/20 23:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/21/20 23:29	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/21/20 23:29	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/21/20 23:29	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/21/20 23:29	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/21/20 23:29	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/21/20 23:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/21/20 23:29	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/21/20 23:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/21/20 23:29	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/21/20 23:29	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/21/20 23:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/21/20 23:29	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/21/20 23:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/21/20 23:29	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/21/20 23:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/21/20 23:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/21/20 23:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/21/20 23:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/21/20 23:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/21/20 23:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/21/20 23:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/21/20 23:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/21/20 23:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/21/20 23:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/21/20 23:29	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/21/20 23:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/21/20 23:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/21/20 23:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/21/20 23:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/21/20 23:29	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/21/20 23:29	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/21/20 23:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/21/20 23:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/21/20 23:29	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/21/20 23:29	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/21/20 23:29	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/21/20 23:29	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/21/20 23:29	103-65-1	
Styrene	ND	ug/L	0.50	1		10/21/20 23:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/21/20 23:29	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/21/20 23:29	79-34-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

Sample: Trip Blank		Lab ID: 92501343008	Collected: 10/20/20 00:00	Received: 10/20/20 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/21/20 23:29	127-18-4	
Toluene	ND	ug/L	0.50	1		10/21/20 23:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/21/20 23:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/21/20 23:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/21/20 23:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/21/20 23:29	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/21/20 23:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/21/20 23:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/21/20 23:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/21/20 23:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/21/20 23:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/21/20 23:29	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/21/20 23:29	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/21/20 23:29	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/21/20 23:29	17060-07-0	
4-Bromofluorobenzene (S)	98	%	70-130	1		10/21/20 23:29	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/21/20 23:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

QC Batch: 1564672	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501343001, 92501343002, 92501343003, 92501343004, 92501343005, 92501343006, 92501343007

METHOD BLANK: R3585156-2 Matrix: Water

Associated Lab Samples: 92501343001, 92501343002, 92501343003, 92501343004, 92501343005, 92501343006, 92501343007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/23/20 15:53	
Aliphatic (C09-C12)	ug/L	ND	100	10/23/20 15:53	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/23/20 15:53	
Total VPH	ug/L	ND	100	10/23/20 15:53	
2,5-Dibromotoluene (FID)	%	82.7	70.0-130	10/23/20 15:53	
2,5-Dibromotoluene (PID)	%	89.2	70.0-130	10/23/20 15:53	

LABORATORY CONTROL SAMPLE & LCSD: R3585156-1 R3585156-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	944	954	78.7	79.5	70.0-130	1.05	25	
Aliphatic (C09-C12)	ug/L	1400	1350	1380	96.4	98.6	70.0-130	2.20	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	259	210	130	105	70.0-130	20.9	25	
Total VPH	ug/L	2800	2550	2540	91.1	90.7	70.0-130	0.393	25	
2,5-Dibromotoluene (FID)	%				95.6	90.3	70.0-130			
2,5-Dibromotoluene (PID)	%				106	96.5	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501343

QC Batch: 574575 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92501343001, 92501343002, 92501343003, 92501343004, 92501343005, 92501343006, 92501343007

METHOD BLANK: 3041788 Matrix: Water
Associated Lab Samples: 92501343001, 92501343002, 92501343003, 92501343004, 92501343005, 92501343006, 92501343007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/21/20 18:20	

LABORATORY CONTROL SAMPLE: 3041789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	492	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3041790 3041791

Parameter	Units	92501343001		3041790		3041791		% Rec Limits	RPD	Qual	
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				MSD % Rec
Lead	ug/L	7.8	500	500	543	527	107	104	75-125	3	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

QC Batch: 574790

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501343001, 92501343002, 92501343003, 92501343004, 92501343005, 92501343006, 92501343007, 92501343008

METHOD BLANK: 3042818

Matrix: Water

Associated Lab Samples: 92501343001, 92501343002, 92501343003, 92501343004, 92501343005, 92501343006, 92501343007, 92501343008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1-Dichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1-Dichloroethene	ug/L	ND	0.50	10/21/20 23:11	
1,1-Dichloropropene	ug/L	ND	0.50	10/21/20 23:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/21/20 23:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/21/20 23:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/21/20 23:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/21/20 23:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dichloropropane	ug/L	ND	0.50	10/21/20 23:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/21/20 23:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
1,3-Dichloropropane	ug/L	ND	0.50	10/21/20 23:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
2,2-Dichloropropane	ug/L	ND	0.50	10/21/20 23:11	
2-Chlorotoluene	ug/L	ND	0.50	10/21/20 23:11	
4-Chlorotoluene	ug/L	ND	0.50	10/21/20 23:11	
Benzene	ug/L	ND	0.50	10/21/20 23:11	
Bromobenzene	ug/L	ND	0.50	10/21/20 23:11	
Bromochloromethane	ug/L	ND	0.50	10/21/20 23:11	
Bromodichloromethane	ug/L	ND	0.50	10/21/20 23:11	
Bromoform	ug/L	ND	0.50	10/21/20 23:11	
Bromomethane	ug/L	ND	5.0	10/21/20 23:11	
Carbon tetrachloride	ug/L	ND	0.50	10/21/20 23:11	
Chlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
Chloroethane	ug/L	ND	1.0	10/21/20 23:11	
Chloroform	ug/L	ND	0.50	10/21/20 23:11	
Chloromethane	ug/L	ND	1.0	10/21/20 23:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/21/20 23:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/21/20 23:11	
Dibromochloromethane	ug/L	ND	0.50	10/21/20 23:11	
Dibromomethane	ug/L	ND	0.50	10/21/20 23:11	
Dichlorodifluoromethane	ug/L	ND	0.50	10/21/20 23:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

METHOD BLANK: 3042818

Matrix: Water

Associated Lab Samples: 92501343001, 92501343002, 92501343003, 92501343004, 92501343005, 92501343006, 92501343007, 92501343008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	0.50	10/21/20 23:11	
Ethylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/21/20 23:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/21/20 23:11	
m&p-Xylene	ug/L	ND	1.0	10/21/20 23:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/21/20 23:11	
Methylene Chloride	ug/L	ND	2.0	10/21/20 23:11	
n-Butylbenzene	ug/L	ND	0.50	10/21/20 23:11	
n-Propylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Naphthalene	ug/L	ND	2.0	10/21/20 23:11	
o-Xylene	ug/L	ND	0.50	10/21/20 23:11	
sec-Butylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Styrene	ug/L	ND	0.50	10/21/20 23:11	
tert-Butylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Tetrachloroethene	ug/L	ND	0.50	10/21/20 23:11	
Toluene	ug/L	ND	0.50	10/21/20 23:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/21/20 23:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/21/20 23:11	
Trichloroethene	ug/L	ND	0.50	10/21/20 23:11	
Trichlorofluoromethane	ug/L	ND	1.0	10/21/20 23:11	
Vinyl chloride	ug/L	ND	1.0	10/21/20 23:11	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/21/20 23:11	
4-Bromofluorobenzene (S)	%	96	70-130	10/21/20 23:11	
Toluene-d8 (S)	%	100	70-130	10/21/20 23:11	

LABORATORY CONTROL SAMPLE: 3042819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	46.6	93	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	60-140	
1,1,2-Trichloroethane	ug/L	50	49.0	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	49.7	99	60-140	
1,1-Dichloropropene	ug/L	50	47.3	95	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.1	106	60-140	
1,2,3-Trichloropropane	ug/L	50	52.0	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.8	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.5	115	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.3	105	60-140	
1,2-Dichlorobenzene	ug/L	50	50.0	100	60-140	
1,2-Dichloroethane	ug/L	50	43.9	88	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501343

LABORATORY CONTROL SAMPLE: 3042819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	48.7	97	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	
1,3-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,3-Dichloropropane	ug/L	50	51.5	103	60-140	
1,4-Dichlorobenzene	ug/L	50	50.0	100	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	50.4	101	60-140	
4-Chlorotoluene	ug/L	50	49.3	99	60-140	
Benzene	ug/L	50	47.7	95	60-140	
Bromobenzene	ug/L	50	49.0	98	60-140	
Bromochloromethane	ug/L	50	47.6	95	60-140	
Bromodichloromethane	ug/L	50	47.6	95	60-140	
Bromoform	ug/L	50	49.6	99	60-140	
Bromomethane	ug/L	50	53.8	108	60-140	
Carbon tetrachloride	ug/L	50	44.6	89	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	36.7	73	60-140	
Chloroform	ug/L	50	49.2	98	60-140	
Chloromethane	ug/L	50	43.8	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.2	100	60-140	
Dibromochloromethane	ug/L	50	53.1	106	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.0	80	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	47.9	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.8	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.2	98	60-140	
m&p-Xylene	ug/L	100	97.2	97	60-140	
Methyl-tert-butyl ether	ug/L	50	48.8	98	60-140	
Methylene Chloride	ug/L	50	47.0	94	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	48.8	98	60-140	
Naphthalene	ug/L	50	57.5	115	60-140	
o-Xylene	ug/L	50	49.6	99	60-140	
sec-Butylbenzene	ug/L	50	47.9	96	60-140	
Styrene	ug/L	50	50.4	101	60-140	
tert-Butylbenzene	ug/L	50	41.2	82	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	46.9	94	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.8	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.6	99	60-140	
Trichloroethene	ug/L	50	47.5	95	60-140	
Trichlorofluoromethane	ug/L	50	36.9	74	60-140	
Vinyl chloride	ug/L	50	42.0	84	60-140	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

LABORATORY CONTROL SAMPLE: 3042819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3042820 3042821

Parameter	92501343001		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.9	22.1	105	111	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.4	20.7	102	103	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.3	20.7	102	104	60-140	2	
1,1-Dichloroethane	ug/L	ND	20	20	20.6	21.7	103	109	60-140	5	
1,1-Dichloroethene	ug/L	ND	20	20	22.3	22.8	111	114	60-140	2	
1,1-Dichloropropene	ug/L	ND	20	20	21.1	21.6	106	108	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.9	21.3	104	106	60-140	2	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.9	21.6	99	108	60-140	8	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.6	21.9	103	110	60-140	6	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.0	22.1	110	110	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.3	105	107	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.1	20.9	101	104	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	18.1	18.8	90	94	60-140	4	
1,2-Dichloropropane	ug/L	ND	20	20	21.0	21.6	105	108	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.4	22.5	107	112	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	21.3	101	106	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	21.2	22.0	106	110	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	21.7	101	108	60-140	7	
2,2-Dichloropropane	ug/L	ND	20	20	20.3	21.0	101	105	60-140	3	
2-Chlorotoluene	ug/L	ND	20	20	21.0	22.0	105	110	60-140	5	
4-Chlorotoluene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	4	
Benzene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4	
Bromobenzene	ug/L	ND	20	20	20.7	21.5	103	108	60-140	4	
Bromochloromethane	ug/L	ND	20	20	19.9	20.4	100	102	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	19.3	20.6	96	103	60-140	7	
Bromoform	ug/L	ND	20	20	19.0	19.3	95	97	60-140	2	
Bromomethane	ug/L	ND	20	20	26.5	27.1	132	136	60-140	2	
Carbon tetrachloride	ug/L	ND	20	20	20.7	21.7	104	108	60-140	5	
Chlorobenzene	ug/L	ND	20	20	21.1	21.5	105	107	60-140	2	
Chloroethane	ug/L	ND	20	20	19.2	20.4	96	102	60-140	6	
Chloroform	ug/L	2.0	20	20	23.0	24.2	105	111	60-140	5	
Chloromethane	ug/L	ND	20	20	18.5	19.2	93	96	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.7	21.7	103	109	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	21.5	21.7	108	109	60-140	1	
Dibromomethane	ug/L	ND	20	20	20.5	21.3	102	106	60-140	4	
Dichlorodifluoromethane	ug/L	ND	20	20	18.9	19.5	94	98	60-140	4	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501343

Parameter	92501343001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
Diisopropyl ether	ug/L	ND	20	20	19.4	20.1	97	100	60-140	3				
Ethylbenzene	ug/L	ND	20	20	21.1	21.5	106	107	60-140	2				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.0	23.2	110	116	60-140	6				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	22.0	107	110	60-140	3				
m&p-Xylene	ug/L	ND	40	40	42.2	43.3	105	108	60-140	3				
Methyl-tert-butyl ether	ug/L	ND	20	20	19.4	20.2	97	101	60-140	4				
Methylene Chloride	ug/L	ND	20	20	19.7	20.5	99	102	60-140	4				
n-Butylbenzene	ug/L	ND	20	20	22.0	22.9	110	114	60-140	4				
n-Propylbenzene	ug/L	ND	20	20	21.8	22.8	109	114	60-140	5				
Naphthalene	ug/L	ND	20	20	22.7	22.0	113	110	60-140	3				
o-Xylene	ug/L	ND	20	20	20.9	21.3	105	106	60-140	2				
sec-Butylbenzene	ug/L	ND	20	20	21.7	22.9	109	115	60-140	5				
Styrene	ug/L	ND	20	20	20.2	21.0	101	105	60-140	4				
tert-Butylbenzene	ug/L	ND	20	20	18.5	19.5	92	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Toluene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.1	22.3	105	112	60-140	6				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.0	20.5	100	103	60-140	2				
Trichloroethene	ug/L	ND	20	20	21.0	22.0	105	110	60-140	4				
Trichlorofluoromethane	ug/L	ND	20	20	19.3	20.1	96	101	60-140	4				
Vinyl chloride	ug/L	ND	20	20	19.8	19.9	99	99	60-140	0				
1,2-Dichloroethane-d4 (S)	%						103	98	70-130					
4-Bromofluorobenzene (S)	%						99	96	70-130					
Toluene-d8 (S)	%						99	99	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

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QUALIFIERS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501343

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501343

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501343001	MW-16	MADEPV	1564672	MADEP VPH	1564672
92501343002	MW-17	MADEPV	1564672	MADEP VPH	1564672
92501343003	MW-19	MADEPV	1564672	MADEP VPH	1564672
92501343004	MW-21	MADEPV	1564672	MADEP VPH	1564672
92501343005	MW-23R	MADEPV	1564672	MADEP VPH	1564672
92501343006	MW-31	MADEPV	1564672	MADEP VPH	1564672
92501343007	MW-40	MADEPV	1564672	MADEP VPH	1564672
92501343001	MW-16	EPA 3010A	574575	EPA 6010D	574590
92501343002	MW-17	EPA 3010A	574575	EPA 6010D	574590
92501343003	MW-19	EPA 3010A	574575	EPA 6010D	574590
92501343004	MW-21	EPA 3010A	574575	EPA 6010D	574590
92501343005	MW-23R	EPA 3010A	574575	EPA 6010D	574590
92501343006	MW-31	EPA 3010A	574575	EPA 6010D	574590
92501343007	MW-40	EPA 3010A	574575	EPA 6010D	574590
92501343001	MW-16	SM 6200B	574790		
92501343002	MW-17	SM 6200B	574790		
92501343003	MW-19	SM 6200B	574790		
92501343004	MW-21	SM 6200B	574790		
92501343005	MW-23R	SM 6200B	574790		
92501343006	MW-31	SM 6200B	574790		
92501343007	MW-40	SM 6200B	574790		
92501343008	Trip Blank	SM 6200B	574790		

REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

AECOM

Project # **WO# : 92501343**



92501343

Courier: Commercial Fed Ex Pace UPS USPS Other: Client

Custody Seal Present? Yes No Seals intact? Yes No

Date/Initials Person Examining Contents: DW 10/20/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: 92T061
 IR Gun ID:

Type of Ice: Wet Blue None

Cooler Temp (°C): 4.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 4.1

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Chain of Custody Analysis (SCA) Requested?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project # **WO# : 92501343**

PM: NMG

Due Date: 10/27/20

CLIENT: 92-AECOM CHA

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP2U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																7												
2																7												
3																7												
4																7												
5																7												
6																7												
7																7												
8																2												
9																												
10																												
11																												
12																												

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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).

October 26, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501344

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501344

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501344001	MW-11	MADEP VPH	ADM, DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501344002	MW-42	MADEP VPH	ADM, DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501344003	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Sample: MW-11	Lab ID: 92501344001	Collected: 10/20/20 13:15	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	16700	ug/L	2000	20	10/24/20 16:58	10/24/20 16:58		
Aliphatic (C09-C12)	4580	ug/L	100	1	10/24/20 04:02	10/24/20 04:02		
Aromatic (C09-C10),Unadjusted	1370	ug/L	100	1	10/24/20 04:02	10/24/20 04:02	TPHC9C10A	
Total VPH	5950	ug/L	100	1	10/24/20 04:02	10/24/20 04:02	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	99.6	%	70.0-130	1	10/24/20 04:02	10/24/20 04:02	615-59-8FID	
2,5-Dibromotoluene (FID)	93.7	%	70.0-130	20	10/24/20 16:58	10/24/20 16:58	615-59-8FID	
2,5-Dibromotoluene (PID)	105	%	70.0-130	1	10/24/20 04:02	10/24/20 04:02	615-59-8PID	
2,5-Dibromotoluene (PID)	97.5	%	70.0-130	20	10/24/20 16:58	10/24/20 16:58	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	17.8	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:06	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	1740	ug/L	20.0	40		10/23/20 00:31	71-43-2	
Bromobenzene	ND	ug/L	20.0	40		10/23/20 00:31	108-86-1	
Bromochloromethane	ND	ug/L	20.0	40		10/23/20 00:31	74-97-5	
Bromodichloromethane	ND	ug/L	20.0	40		10/23/20 00:31	75-27-4	
Bromoform	ND	ug/L	20.0	40		10/23/20 00:31	75-25-2	
Bromomethane	ND	ug/L	200	40		10/23/20 00:31	74-83-9	
n-Butylbenzene	ND	ug/L	20.0	40		10/23/20 00:31	104-51-8	
sec-Butylbenzene	ND	ug/L	20.0	40		10/23/20 00:31	135-98-8	
tert-Butylbenzene	ND	ug/L	20.0	40		10/23/20 00:31	98-06-6	
Carbon tetrachloride	ND	ug/L	20.0	40		10/23/20 00:31	56-23-5	
Chlorobenzene	ND	ug/L	20.0	40		10/23/20 00:31	108-90-7	
Chloroethane	ND	ug/L	40.0	40		10/23/20 00:31	75-00-3	
Chloroform	ND	ug/L	20.0	40		10/23/20 00:31	67-66-3	
Chloromethane	ND	ug/L	40.0	40		10/23/20 00:31	74-87-3	
2-Chlorotoluene	ND	ug/L	20.0	40		10/23/20 00:31	95-49-8	
4-Chlorotoluene	ND	ug/L	20.0	40		10/23/20 00:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	40.0	40		10/23/20 00:31	96-12-8	
Dibromochloromethane	ND	ug/L	20.0	40		10/23/20 00:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	20.0	40		10/23/20 00:31	106-93-4	
Dibromomethane	ND	ug/L	20.0	40		10/23/20 00:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	20.0	40		10/23/20 00:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	20.0	40		10/23/20 00:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	20.0	40		10/23/20 00:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	20.0	40		10/23/20 00:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	20.0	40		10/23/20 00:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	20.0	40		10/23/20 00:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	20.0	40		10/23/20 00:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	20.0	40		10/23/20 00:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	20.0	40		10/23/20 00:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	20.0	40		10/23/20 00:31	78-87-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Sample: MW-11	Lab ID: 92501344001	Collected: 10/20/20 13:15	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,3-Dichloropropane	ND	ug/L	20.0	40		10/23/20 00:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	20.0	40		10/23/20 00:31	594-20-7	
1,1-Dichloropropene	ND	ug/L	20.0	40		10/23/20 00:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	20.0	40		10/23/20 00:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	20.0	40		10/23/20 00:31	10061-02-6	
Diisopropyl ether	172	ug/L	20.0	40		10/23/20 00:31	108-20-3	
Ethylbenzene	286	ug/L	20.0	40		10/23/20 00:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	80.0	40		10/23/20 00:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	20.0	40		10/23/20 00:31	98-82-8	
Methylene Chloride	99.8	ug/L	80.0	40		10/23/20 00:31	75-09-2	
Methyl-tert-butyl ether	29.5	ug/L	20.0	40		10/23/20 00:31	1634-04-4	
Naphthalene	ND	ug/L	80.0	40		10/23/20 00:31	91-20-3	
n-Propylbenzene	ND	ug/L	20.0	40		10/23/20 00:31	103-65-1	
Styrene	ND	ug/L	20.0	40		10/23/20 00:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	20.0	40		10/23/20 00:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	20.0	40		10/23/20 00:31	79-34-5	
Tetrachloroethene	ND	ug/L	20.0	40		10/23/20 00:31	127-18-4	
Toluene	4370	ug/L	20.0	40		10/23/20 00:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	80.0	40		10/23/20 00:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	80.0	40		10/23/20 00:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	20.0	40		10/23/20 00:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	20.0	40		10/23/20 00:31	79-00-5	
Trichloroethene	ND	ug/L	20.0	40		10/23/20 00:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	40.0	40		10/23/20 00:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	20.0	40		10/23/20 00:31	96-18-4	
1,2,4-Trimethylbenzene	265	ug/L	20.0	40		10/23/20 00:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	20.0	40		10/23/20 00:31	108-67-8	
Vinyl chloride	ND	ug/L	40.0	40		10/23/20 00:31	75-01-4	
m&p-Xylene	1110	ug/L	40.0	40		10/23/20 00:31	179601-23-1	
o-Xylene	645	ug/L	20.0	40		10/23/20 00:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	40		10/23/20 00:31	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	40		10/23/20 00:31	460-00-4	
Toluene-d8 (S)	99	%	70-130	40		10/23/20 00:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Sample: MW-42	Lab ID: 92501344002	Collected: 10/20/20 14:00	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 15:50	10/24/20 15:50		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 04:35	10/24/20 04:35		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 04:35	10/24/20 04:35	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/24/20 04:35	10/24/20 04:35	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.2	%	70.0-130	1	10/24/20 04:35	10/24/20 04:35	615-59-8FID	
2,5-Dibromotoluene (FID)	90.5	%	70.0-130	1	10/24/20 15:50	10/24/20 15:50	615-59-8FID	
2,5-Dibromotoluene (PID)	96.3	%	70.0-130	1	10/24/20 04:35	10/24/20 04:35	615-59-8PID	
2,5-Dibromotoluene (PID)	93.5	%	70.0-130	1	10/24/20 15:50	10/24/20 15:50	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:09	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 23:02	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 23:02	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 23:02	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 23:02	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 23:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 23:02	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 23:02	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 23:02	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 23:02	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 23:02	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 23:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 23:02	75-00-3	
Chloroform	15.5	ug/L	0.50	1		10/22/20 23:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 23:02	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 23:02	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 23:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 23:02	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 23:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 23:02	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 23:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 23:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 23:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 23:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 23:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 23:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 23:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 23:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 23:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 23:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 23:02	78-87-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Sample: MW-42	Lab ID: 92501344002	Collected: 10/20/20 14:00	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 23:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 23:02	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 23:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 23:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 23:02	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 23:02	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 23:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 23:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 23:02	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 23:02	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 23:02	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 23:02	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 23:02	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 23:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 23:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 23:02	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 23:02	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/20 23:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 23:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 23:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 23:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 23:02	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 23:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 23:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 23:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 23:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 23:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 23:02	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 23:02	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 23:02	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/22/20 23:02	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		10/22/20 23:02	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/22/20 23:02	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Sample: Trip Blank		Lab ID: 92501344003	Collected: 10/20/20 00:00	Received: 10/20/20 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/21/20 23:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/21/20 23:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/21/20 23:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/21/20 23:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/21/20 23:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/21/20 23:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/21/20 23:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/21/20 23:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/21/20 23:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/21/20 23:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/21/20 23:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/21/20 23:47	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/21/20 23:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/21/20 23:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/21/20 23:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/21/20 23:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/21/20 23:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/21/20 23:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/21/20 23:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/21/20 23:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/21/20 23:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/21/20 23:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/21/20 23:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/21/20 23:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/21/20 23:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/21/20 23:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/21/20 23:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/21/20 23:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/21/20 23:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/21/20 23:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/21/20 23:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/21/20 23:47	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/21/20 23:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/21/20 23:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/21/20 23:47	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/21/20 23:47	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/21/20 23:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/21/20 23:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/21/20 23:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/21/20 23:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/21/20 23:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/21/20 23:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/21/20 23:47	103-65-1	
Styrene	ND	ug/L	0.50	1		10/21/20 23:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/21/20 23:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/21/20 23:47	79-34-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501344

Sample: Trip Blank		Lab ID: 92501344003	Collected: 10/20/20 00:00	Received: 10/20/20 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/21/20 23:47	127-18-4	
Toluene	ND	ug/L	0.50	1		10/21/20 23:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/21/20 23:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/21/20 23:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/21/20 23:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/21/20 23:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/21/20 23:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/21/20 23:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/21/20 23:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/21/20 23:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/21/20 23:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/21/20 23:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/21/20 23:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/21/20 23:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/21/20 23:47	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/21/20 23:47	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/21/20 23:47	2037-26-5	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501344

QC Batch: 1564672	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501344001, 92501344002

METHOD BLANK: R3585156-2 Matrix: Water
Associated Lab Samples: 92501344001, 92501344002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C12)	ug/L	ND	100	10/23/20 15:53	
Aromatic (C09-C10), Unadjusted	ug/L	ND	100	10/23/20 15:53	
Total VPH	ug/L	ND	100	10/23/20 15:53	
2,5-Dibromotoluene (FID)	%	82.7	70.0-130	10/23/20 15:53	
2,5-Dibromotoluene (PID)	%	89.2	70.0-130	10/23/20 15:53	

Parameter	Units	R3585156-1		R3585156-3		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aliphatic (C09-C12)	ug/L	1400	1350	1380	96.4	98.6	70.0-130	2.20	25
Aromatic (C09-C10), Unadjusted	ug/L	200	259	210	130	105	70.0-130	20.9	25
Total VPH	ug/L	2800	2550	2540	91.1	90.7	70.0-130	0.393	25
2,5-Dibromotoluene (FID)	%				95.6	90.3	70.0-130		
2,5-Dibromotoluene (PID)	%				106	96.5	70.0-130		

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501344

QC Batch: 1564888	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501344001, 92501344002

METHOD BLANK: R3585246-2 Matrix: Water

Associated Lab Samples: 92501344001, 92501344002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/24/20 14:10	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	10/24/20 14:10	
2,5-Dibromotoluene (PID)	%	95.5	70.0-130	10/24/20 14:10	

LABORATORY CONTROL SAMPLE & LCSD: R3585246-1 R3585246-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	973	985	81.1	82.1	70.0-130	1.23	25	
2,5-Dibromotoluene (FID)	%				93.0	99.7	70.0-130			
2,5-Dibromotoluene (PID)	%				103	104	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501344

QC Batch: 574575	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501344001, 92501344002

METHOD BLANK: 3041788 Matrix: Water
Associated Lab Samples: 92501344001, 92501344002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/21/20 18:20	

LABORATORY CONTROL SAMPLE: 3041789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	492	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3041790 3041791

Parameter	Units	92501343001		3041790		3041791		% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Lead	ug/L	7.8	500	500	543	527	107	104	75-125	3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501344

QC Batch: 574790 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501344003

METHOD BLANK: 3042818 Matrix: Water
Associated Lab Samples: 92501344003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1-Dichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1-Dichloroethene	ug/L	ND	0.50	10/21/20 23:11	
1,1-Dichloropropene	ug/L	ND	0.50	10/21/20 23:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/21/20 23:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/21/20 23:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/21/20 23:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/21/20 23:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dichloropropane	ug/L	ND	0.50	10/21/20 23:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/21/20 23:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
1,3-Dichloropropane	ug/L	ND	0.50	10/21/20 23:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
2,2-Dichloropropane	ug/L	ND	0.50	10/21/20 23:11	
2-Chlorotoluene	ug/L	ND	0.50	10/21/20 23:11	
4-Chlorotoluene	ug/L	ND	0.50	10/21/20 23:11	
Benzene	ug/L	ND	0.50	10/21/20 23:11	
Bromobenzene	ug/L	ND	0.50	10/21/20 23:11	
Bromochloromethane	ug/L	ND	0.50	10/21/20 23:11	
Bromodichloromethane	ug/L	ND	0.50	10/21/20 23:11	
Bromoform	ug/L	ND	0.50	10/21/20 23:11	
Bromomethane	ug/L	ND	5.0	10/21/20 23:11	
Carbon tetrachloride	ug/L	ND	0.50	10/21/20 23:11	
Chlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
Chloroethane	ug/L	ND	1.0	10/21/20 23:11	
Chloroform	ug/L	ND	0.50	10/21/20 23:11	
Chloromethane	ug/L	ND	1.0	10/21/20 23:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/21/20 23:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/21/20 23:11	
Dibromochloromethane	ug/L	ND	0.50	10/21/20 23:11	
Dibromomethane	ug/L	ND	0.50	10/21/20 23:11	
Dichlorodifluoromethane	ug/L	ND	0.50	10/21/20 23:11	
Diisopropyl ether	ug/L	ND	0.50	10/21/20 23:11	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

METHOD BLANK: 3042818

Matrix: Water

Associated Lab Samples: 92501344003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/21/20 23:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/21/20 23:11	
m&p-Xylene	ug/L	ND	1.0	10/21/20 23:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/21/20 23:11	
Methylene Chloride	ug/L	ND	2.0	10/21/20 23:11	
n-Butylbenzene	ug/L	ND	0.50	10/21/20 23:11	
n-Propylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Naphthalene	ug/L	ND	2.0	10/21/20 23:11	
o-Xylene	ug/L	ND	0.50	10/21/20 23:11	
sec-Butylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Styrene	ug/L	ND	0.50	10/21/20 23:11	
tert-Butylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Tetrachloroethene	ug/L	ND	0.50	10/21/20 23:11	
Toluene	ug/L	ND	0.50	10/21/20 23:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/21/20 23:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/21/20 23:11	
Trichloroethene	ug/L	ND	0.50	10/21/20 23:11	
Trichlorofluoromethane	ug/L	ND	1.0	10/21/20 23:11	
Vinyl chloride	ug/L	ND	1.0	10/21/20 23:11	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/21/20 23:11	
4-Bromofluorobenzene (S)	%	96	70-130	10/21/20 23:11	
Toluene-d8 (S)	%	100	70-130	10/21/20 23:11	

LABORATORY CONTROL SAMPLE: 3042819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	46.6	93	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	60-140	
1,1,2-Trichloroethane	ug/L	50	49.0	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	49.7	99	60-140	
1,1-Dichloropropene	ug/L	50	47.3	95	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.1	106	60-140	
1,2,3-Trichloropropane	ug/L	50	52.0	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.8	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.5	115	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.3	105	60-140	
1,2-Dichlorobenzene	ug/L	50	50.0	100	60-140	
1,2-Dichloroethane	ug/L	50	43.9	88	60-140	
1,2-Dichloropropane	ug/L	50	48.7	97	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501344

LABORATORY CONTROL SAMPLE: 3042819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,3-Dichloropropane	ug/L	50	51.5	103	60-140	
1,4-Dichlorobenzene	ug/L	50	50.0	100	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	50.4	101	60-140	
4-Chlorotoluene	ug/L	50	49.3	99	60-140	
Benzene	ug/L	50	47.7	95	60-140	
Bromobenzene	ug/L	50	49.0	98	60-140	
Bromochloromethane	ug/L	50	47.6	95	60-140	
Bromodichloromethane	ug/L	50	47.6	95	60-140	
Bromoform	ug/L	50	49.6	99	60-140	
Bromomethane	ug/L	50	53.8	108	60-140	
Carbon tetrachloride	ug/L	50	44.6	89	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	36.7	73	60-140	
Chloroform	ug/L	50	49.2	98	60-140	
Chloromethane	ug/L	50	43.8	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.2	100	60-140	
Dibromochloromethane	ug/L	50	53.1	106	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.0	80	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	47.9	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.8	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.2	98	60-140	
m&p-Xylene	ug/L	100	97.2	97	60-140	
Methyl-tert-butyl ether	ug/L	50	48.8	98	60-140	
Methylene Chloride	ug/L	50	47.0	94	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	48.8	98	60-140	
Naphthalene	ug/L	50	57.5	115	60-140	
o-Xylene	ug/L	50	49.6	99	60-140	
sec-Butylbenzene	ug/L	50	47.9	96	60-140	
Styrene	ug/L	50	50.4	101	60-140	
tert-Butylbenzene	ug/L	50	41.2	82	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	46.9	94	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.8	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.6	99	60-140	
Trichloroethene	ug/L	50	47.5	95	60-140	
Trichlorofluoromethane	ug/L	50	36.9	74	60-140	
Vinyl chloride	ug/L	50	42.0	84	60-140	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Parameter	92501343001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1				
1,1,1-Trichloroethane	ug/L	ND	20	20	20.9	22.1	105	111	60-140	5				
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.4	20.7	102	103	60-140	1				
1,1,2-Trichloroethane	ug/L	ND	20	20	20.3	20.7	102	104	60-140	2				
1,1-Dichloroethane	ug/L	ND	20	20	20.6	21.7	103	109	60-140	5				
1,1-Dichloroethene	ug/L	ND	20	20	22.3	22.8	111	114	60-140	2				
1,1-Dichloropropene	ug/L	ND	20	20	21.1	21.6	106	108	60-140	2				
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.9	21.3	104	106	60-140	2				
1,2,3-Trichloropropane	ug/L	ND	20	20	19.9	21.6	99	108	60-140	8				
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20.6	21.9	103	110	60-140	6				
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.6	21.8	108	109	60-140	1				
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	22.0	22.1	110	110	60-140	0				
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.3	105	107	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	20	20	20.1	20.9	101	104	60-140	4				
1,2-Dichloroethane	ug/L	ND	20	20	18.1	18.8	90	94	60-140	4				
1,2-Dichloropropane	ug/L	ND	20	20	21.0	21.6	105	108	60-140	3				
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.4	22.5	107	112	60-140	5				
1,3-Dichlorobenzene	ug/L	ND	20	20	20.2	21.3	101	106	60-140	5				
1,3-Dichloropropane	ug/L	ND	20	20	21.2	22.0	106	110	60-140	4				
1,4-Dichlorobenzene	ug/L	ND	20	20	20.3	21.7	101	108	60-140	7				
2,2-Dichloropropane	ug/L	ND	20	20	20.3	21.0	101	105	60-140	3				
2-Chlorotoluene	ug/L	ND	20	20	21.0	22.0	105	110	60-140	5				
4-Chlorotoluene	ug/L	ND	20	20	20.9	21.8	104	109	60-140	4				
Benzene	ug/L	ND	20	20	20.8	21.8	104	109	60-140	4				
Bromobenzene	ug/L	ND	20	20	20.7	21.5	103	108	60-140	4				
Bromochloromethane	ug/L	ND	20	20	19.9	20.4	100	102	60-140	2				
Bromodichloromethane	ug/L	ND	20	20	19.3	20.6	96	103	60-140	7				
Bromoform	ug/L	ND	20	20	19.0	19.3	95	97	60-140	2				
Bromomethane	ug/L	ND	20	20	26.5	27.1	132	136	60-140	2				
Carbon tetrachloride	ug/L	ND	20	20	20.7	21.7	104	108	60-140	5				
Chlorobenzene	ug/L	ND	20	20	21.1	21.5	105	107	60-140	2				
Chloroethane	ug/L	ND	20	20	19.2	20.4	96	102	60-140	6				
Chloroform	ug/L	2.0	20	20	23.0	24.2	105	111	60-140	5				
Chloromethane	ug/L	ND	20	20	18.5	19.2	93	96	60-140	4				
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	20.9	101	104	60-140	3				
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.7	21.7	103	109	60-140	5				
Dibromochloromethane	ug/L	ND	20	20	21.5	21.7	108	109	60-140	1				
Dibromomethane	ug/L	ND	20	20	20.5	21.3	102	106	60-140	4				
Dichlorodifluoromethane	ug/L	ND	20	20	18.9	19.5	94	98	60-140	4				
Diisopropyl ether	ug/L	ND	20	20	19.4	20.1	97	100	60-140	3				
Ethylbenzene	ug/L	ND	20	20	21.1	21.5	106	107	60-140	2				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.0	23.2	110	116	60-140	6				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.4	22.0	107	110	60-140	3				
m&p-Xylene	ug/L	ND	40	40	42.2	43.3	105	108	60-140	3				
Methyl-tert-butyl ether	ug/L	ND	20	20	19.4	20.2	97	101	60-140	4				
Methylene Chloride	ug/L	ND	20	20	19.7	20.5	99	102	60-140	4				

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Parameter	92501343001		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec					
n-Butylbenzene	ug/L	ND	20	20	22.0	22.9	110	114	60-140	4			
n-Propylbenzene	ug/L	ND	20	20	21.8	22.8	109	114	60-140	5			
Naphthalene	ug/L	ND	20	20	22.7	22.0	113	110	60-140	3			
o-Xylene	ug/L	ND	20	20	20.9	21.3	105	106	60-140	2			
sec-Butylbenzene	ug/L	ND	20	20	21.7	22.9	109	115	60-140	5			
Styrene	ug/L	ND	20	20	20.2	21.0	101	105	60-140	4			
tert-Butylbenzene	ug/L	ND	20	20	18.5	19.5	92	97	60-140	5			
Tetrachloroethene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3			
Toluene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4			
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.1	22.3	105	112	60-140	6			
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.0	20.5	100	103	60-140	2			
Trichloroethene	ug/L	ND	20	20	21.0	22.0	105	110	60-140	4			
Trichlorofluoromethane	ug/L	ND	20	20	19.3	20.1	96	101	60-140	4			
Vinyl chloride	ug/L	ND	20	20	19.8	19.9	99	99	60-140	0			
1,2-Dichloroethane-d4 (S)	%						103	98	70-130				
4-Bromofluorobenzene (S)	%						99	96	70-130				
Toluene-d8 (S)	%						99	99	70-130				

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501344

QC Batch: 575107 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501344001, 92501344002

METHOD BLANK: 3044512 Matrix: Water

Associated Lab Samples: 92501344001, 92501344002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1-Dichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1-Dichloroethene	ug/L	ND	0.50	10/22/20 22:08	
1,1-Dichloropropene	ug/L	ND	0.50	10/22/20 22:08	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/22/20 22:08	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/22/20 22:08	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/22/20 22:08	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/22/20 22:08	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dichloropropane	ug/L	ND	0.50	10/22/20 22:08	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/22/20 22:08	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
1,3-Dichloropropane	ug/L	ND	0.50	10/22/20 22:08	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
2,2-Dichloropropane	ug/L	ND	0.50	10/22/20 22:08	
2-Chlorotoluene	ug/L	ND	0.50	10/22/20 22:08	
4-Chlorotoluene	ug/L	ND	0.50	10/22/20 22:08	
Benzene	ug/L	ND	0.50	10/22/20 22:08	
Bromobenzene	ug/L	ND	0.50	10/22/20 22:08	
Bromochloromethane	ug/L	ND	0.50	10/22/20 22:08	
Bromodichloromethane	ug/L	ND	0.50	10/22/20 22:08	
Bromoform	ug/L	ND	0.50	10/22/20 22:08	
Bromomethane	ug/L	ND	5.0	10/22/20 22:08	
Carbon tetrachloride	ug/L	ND	0.50	10/22/20 22:08	
Chlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
Chloroethane	ug/L	ND	1.0	10/22/20 22:08	
Chloroform	ug/L	ND	0.50	10/22/20 22:08	
Chloromethane	ug/L	ND	1.0	10/22/20 22:08	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/22/20 22:08	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/22/20 22:08	
Dibromochloromethane	ug/L	ND	0.50	10/22/20 22:08	
Dibromomethane	ug/L	ND	0.50	10/22/20 22:08	
Dichlorodifluoromethane	ug/L	ND	0.50	10/22/20 22:08	
Diisopropyl ether	ug/L	ND	0.50	10/22/20 22:08	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

METHOD BLANK: 3044512

Matrix: Water

Associated Lab Samples: 92501344001, 92501344002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/22/20 22:08	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/22/20 22:08	
m&p-Xylene	ug/L	ND	1.0	10/22/20 22:08	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/22/20 22:08	
Methylene Chloride	ug/L	ND	2.0	10/22/20 22:08	
n-Butylbenzene	ug/L	ND	0.50	10/22/20 22:08	
n-Propylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Naphthalene	ug/L	ND	2.0	10/22/20 22:08	
o-Xylene	ug/L	ND	0.50	10/22/20 22:08	
sec-Butylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Styrene	ug/L	ND	0.50	10/22/20 22:08	
tert-Butylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Tetrachloroethene	ug/L	ND	0.50	10/22/20 22:08	
Toluene	ug/L	ND	0.50	10/22/20 22:08	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/22/20 22:08	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/22/20 22:08	
Trichloroethene	ug/L	ND	0.50	10/22/20 22:08	
Trichlorofluoromethane	ug/L	ND	1.0	10/22/20 22:08	
Vinyl chloride	ug/L	ND	1.0	10/22/20 22:08	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/22/20 22:08	
4-Bromofluorobenzene (S)	%	95	70-130	10/22/20 22:08	
Toluene-d8 (S)	%	100	70-130	10/22/20 22:08	

LABORATORY CONTROL SAMPLE: 3044513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.7	99	60-140	
1,1,1-Trichloroethane	ug/L	50	48.1	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	60-140	
1,1,2-Trichloroethane	ug/L	50	49.1	98	60-140	
1,1-Dichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethene	ug/L	50	51.6	103	60-140	
1,1-Dichloropropene	ug/L	50	47.9	96	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.2	104	60-140	
1,2,3-Trichloropropane	ug/L	50	48.3	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.1	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	60-140	
1,2-Dichlorobenzene	ug/L	50	50.3	101	60-140	
1,2-Dichloroethane	ug/L	50	42.9	86	60-140	
1,2-Dichloropropane	ug/L	50	49.7	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.2	98	60-140	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501344

LABORATORY CONTROL SAMPLE: 3044513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	49.6	99	60-140	
2,2-Dichloropropane	ug/L	50	47.9	96	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.9	100	60-140	
Benzene	ug/L	50	47.6	95	60-140	
Bromobenzene	ug/L	50	48.7	97	60-140	
Bromochloromethane	ug/L	50	47.5	95	60-140	
Bromodichloromethane	ug/L	50	47.5	95	60-140	
Bromoform	ug/L	50	47.9	96	60-140	
Bromomethane	ug/L	50	55.6	111	60-140	
Carbon tetrachloride	ug/L	50	47.0	94	60-140	
Chlorobenzene	ug/L	50	48.9	98	60-140	
Chloroethane	ug/L	50	37.4	75	60-140	
Chloroform	ug/L	50	47.6	95	60-140	
Chloromethane	ug/L	50	43.7	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.6	101	60-140	
Dibromochloromethane	ug/L	50	52.1	104	60-140	
Dibromomethane	ug/L	50	50.1	100	60-140	
Dichlorodifluoromethane	ug/L	50	42.5	85	60-140	
Diisopropyl ether	ug/L	50	46.6	93	60-140	
Ethylbenzene	ug/L	50	47.7	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.2	98	60-140	
m&p-Xylene	ug/L	100	96.9	97	60-140	
Methyl-tert-butyl ether	ug/L	50	48.0	96	60-140	
Methylene Chloride	ug/L	50	49.2	98	60-140	
n-Butylbenzene	ug/L	50	50.8	102	60-140	
n-Propylbenzene	ug/L	50	49.5	99	60-140	
Naphthalene	ug/L	50	55.3	111	60-140	
o-Xylene	ug/L	50	49.2	98	60-140	
sec-Butylbenzene	ug/L	50	49.3	99	60-140	
Styrene	ug/L	50	49.4	99	60-140	
tert-Butylbenzene	ug/L	50	42.3	85	60-140	
Tetrachloroethene	ug/L	50	48.2	96	60-140	
Toluene	ug/L	50	47.5	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.2	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.8	98	60-140	
Trichlorofluoromethane	ug/L	50	40.0	80	60-140	
Vinyl chloride	ug/L	50	43.2	86	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Parameter	92501238003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	524	538	105	108	60-140	3				
1,1,1-Trichloroethane	ug/L	ND	500	500	525	548	105	110	60-140	4				
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	505	526	101	105	60-140	4				
1,1,2-Trichloroethane	ug/L	ND	500	500	504	530	101	106	60-140	5				
1,1-Dichloroethane	ug/L	ND	500	500	520	536	104	107	60-140	3				
1,1-Dichloroethene	ug/L	ND	500	500	586	591	117	118	60-140	1				
1,1-Dichloropropene	ug/L	ND	500	500	530	549	106	110	60-140	3				
1,2,3-Trichlorobenzene	ug/L	ND	500	500	482	525	96	105	60-140	9				
1,2,3-Trichloropropane	ug/L	ND	500	500	510	520	102	104	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	500	500	486	533	97	107	60-140	9				
1,2,4-Trimethylbenzene	ug/L	1380	500	500	1800	1910	85	106	60-140	6				
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	530	560	106	112	60-140	5				
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	531	535	106	107	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	500	500	495	534	99	107	60-140	8				
1,2-Dichloroethane	ug/L	ND	500	500	458	478	92	96	60-140	4				
1,2-Dichloropropane	ug/L	ND	500	500	526	548	105	110	60-140	4				
1,3,5-Trimethylbenzene	ug/L	ND	500	500	840	887	168	177	60-140	5 M1				
1,3-Dichlorobenzene	ug/L	ND	500	500	496	532	99	106	60-140	7				
1,3-Dichloropropane	ug/L	ND	500	500	541	558	108	112	60-140	3				
1,4-Dichlorobenzene	ug/L	ND	500	500	497	527	99	105	60-140	6				
2,2-Dichloropropane	ug/L	ND	500	500	453	451	91	90	60-140	0				
2-Chlorotoluene	ug/L	ND	500	500	563	594	113	119	60-140	5				
4-Chlorotoluene	ug/L	ND	500	500	509	536	102	107	60-140	5				
Benzene	ug/L	194	500	500	713	741	104	109	60-140	4				
Bromobenzene	ug/L	ND	500	500	513	538	103	108	60-140	5				
Bromochloromethane	ug/L	ND	500	500	503	501	101	100	60-140	0				
Bromodichloromethane	ug/L	ND	500	500	494	518	99	104	60-140	5				
Bromoform	ug/L	ND	500	500	470	495	94	99	60-140	5				
Bromomethane	ug/L	ND	500	500	479	636	96	127	60-140	28				
Carbon tetrachloride	ug/L	ND	500	500	518	550	104	110	60-140	6				
Chlorobenzene	ug/L	ND	500	500	521	546	104	109	60-140	5				
Chloroethane	ug/L	ND	500	500	477	498	95	100	60-140	4				
Chloroform	ug/L	ND	500	500	513	546	103	109	60-140	6				
Chloromethane	ug/L	ND	500	500	460	479	92	96	60-140	4				
cis-1,2-Dichloroethene	ug/L	ND	500	500	503	532	101	106	60-140	6				
cis-1,3-Dichloropropene	ug/L	ND	500	500	508	521	102	104	60-140	2				
Dibromochloromethane	ug/L	ND	500	500	515	545	103	109	60-140	6				
Dibromomethane	ug/L	ND	500	500	519	551	104	110	60-140	6				
Dichlorodifluoromethane	ug/L	ND	500	500	459	470	92	94	60-140	2				
Diisopropyl ether	ug/L	ND	500	500	492	508	98	102	60-140	3				
Ethylbenzene	ug/L	1450	500	500	1950	2020	101	115	60-140	4				
Hexachloro-1,3-butadiene	ug/L	ND	500	500	462	511	92	102	60-140	10				
Isopropylbenzene (Cumene)	ug/L	80.4	500	500	609	642	106	112	60-140	5				
m&p-Xylene	ug/L	3010	1000	1000	3970	4110	96	110	60-140	3				
Methyl-tert-butyl ether	ug/L	ND	500	500	503	504	101	101	60-140	0				
Methylene Chloride	ug/L	62.4	500	500	569	565	101	100	60-140	1				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Parameter	Units	3044514		3044515		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92501238003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	500	500	547	580	109	116	60-140	6		
n-Propylbenzene	ug/L	ND	500	500	724	765	145	153	60-140	6	M1	
Naphthalene	ug/L	818	500	500	1330	1440	102	124	60-140	8		
o-Xylene	ug/L	1480	500	500	1990	2080	102	119	60-140	4		
sec-Butylbenzene	ug/L	ND	500	500	533	570	107	114	60-140	7		
Styrene	ug/L	ND	500	500	529	560	106	112	60-140	6		
tert-Butylbenzene	ug/L	ND	500	500	451	485	90	97	60-140	7		
Tetrachloroethene	ug/L	ND	500	500	524	538	105	108	60-140	3		
Toluene	ug/L	3040	500	500	3450	3580	82	108	60-140	4		
trans-1,2-Dichloroethene	ug/L	ND	500	500	523	551	105	110	60-140	5		
trans-1,3-Dichloropropene	ug/L	ND	500	500	491	514	98	103	60-140	5		
Trichloroethene	ug/L	ND	500	500	529	551	106	110	60-140	4		
Trichlorofluoromethane	ug/L	ND	500	500	476	499	95	100	60-140	5		
Vinyl chloride	ug/L	ND	500	500	476	505	95	101	60-140	6		
1,2-Dichloroethane-d4 (S)	%						101	100	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501344

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501344001	MW-11	MADEPV	1564672	MADEP VPH	1564672
92501344001	MW-11	MADEPV	1564888	MADEP VPH	1564888
92501344002	MW-42	MADEPV	1564672	MADEP VPH	1564672
92501344002	MW-42	MADEPV	1564888	MADEP VPH	1564888
92501344001	MW-11	EPA 3010A	574575	EPA 6010D	574590
92501344002	MW-42	EPA 3010A	574575	EPA 6010D	574590
92501344001	MW-11	SM 6200B	575107		
92501344002	MW-42	SM 6200B	575107		
92501344003	Trip Blank	SM 6200B	574790		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name:

AECOM

Project:

WO#: 92501344



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals intact? Yes No

Date/Initials Person Examining Contents: *DW 10/20/20*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: *92T061* Type of Ice: Wet Blue None
 IR Gun ID: _____

Cooler Temp (°C): *3.1* Correction Factor: Add/Subtract (°C) *0.0*

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): *3.1*

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<24 hr)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Rush Turn Around Time Requested?	<i>DV pletho</i> <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <i>WT</i>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

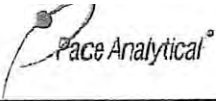
Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

WO# : 92501344

PM: NMG

Due Date: 10/27/20

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92-AECOM CHA

**Bottom half of box is to list number of bottle

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																7													
2																7													
3																2													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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.

October 26, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501345

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski
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(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501345

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification #: 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification #: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501345001	MW-08	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501345002	MW-13	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501345003	MW-14	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501345004	MW-44	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501345005	MW-45	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501345006	MW-46	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501345007	MW-49	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501345008	MW-50	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501345009	MW-60	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501345010	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-08	Lab ID: 92501345001	Collected: 10/20/20 13:20	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/23/20 19:08	10/23/20 19:08		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/23/20 19:08	10/23/20 19:08		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/23/20 19:08	10/23/20 19:08	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/23/20 19:08	10/23/20 19:08	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.2	%	70.0-130	1	10/23/20 19:08	10/23/20 19:08	615-59-8FID	
2,5-Dibromotoluene (PID)	96.9	%	70.0-130	1	10/23/20 19:08	10/23/20 19:08	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	11.2	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:13	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 23:20	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 23:20	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 23:20	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 23:20	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 23:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 23:20	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 23:20	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 23:20	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 23:20	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 23:20	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 23:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 23:20	75-00-3	
Chloroform	3.5	ug/L	0.50	1		10/22/20 23:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 23:20	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 23:20	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 23:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 23:20	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 23:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 23:20	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 23:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 23:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 23:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 23:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 23:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 23:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 23:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 23:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 23:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 23:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 23:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 23:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 23:20	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-08	Lab ID: 92501345001	Collected: 10/20/20 13:20	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 23:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 23:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 23:20	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 23:20	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 23:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 23:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 23:20	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 23:20	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 23:20	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 23:20	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 23:20	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 23:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 23:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 23:20	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 23:20	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/20 23:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 23:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 23:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 23:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 23:20	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 23:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 23:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 23:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 23:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 23:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 23:20	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 23:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 23:20	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/22/20 23:20	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/22/20 23:20	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/22/20 23:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-13	Lab ID: 92501345002	Collected: 10/20/20 15:30	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/23/20 19:41	10/23/20 19:41		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/23/20 19:41	10/23/20 19:41		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/23/20 19:41	10/23/20 19:41	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/23/20 19:41	10/23/20 19:41	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.5	%	70.0-130	1	10/23/20 19:41	10/23/20 19:41	615-59-8FID	
2,5-Dibromotoluene (PID)	97.0	%	70.0-130	1	10/23/20 19:41	10/23/20 19:41	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:16	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 03:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 03:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 03:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 03:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 03:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 03:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 03:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 03:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 03:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 03:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 03:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 03:21	75-00-3	
Chloroform	5.1	ug/L	0.50	1		10/22/20 03:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 03:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 03:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 03:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 03:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 03:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 03:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 03:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 03:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 03:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 03:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 03:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 03:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 03:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 03:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 03:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 03:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 03:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 03:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 03:21	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-13	Lab ID: 92501345002	Collected: 10/20/20 15:30	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 03:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 03:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 03:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 03:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 03:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 03:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 03:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 03:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 03:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 03:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 03:21	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 03:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 03:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 03:21	79-34-5	
Tetrachloroethene	1.2	ug/L	0.50	1		10/22/20 03:21	127-18-4	
Toluene	0.97	ug/L	0.50	1		10/22/20 03:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 03:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 03:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 03:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 03:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 03:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 03:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 03:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 03:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 03:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 03:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 03:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 03:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		10/22/20 03:21	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/22/20 03:21	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/22/20 03:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-14	Lab ID: 92501345003	Collected: 10/20/20 14:10	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/23/20 20:14	10/23/20 20:14		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/23/20 20:14	10/23/20 20:14		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/23/20 20:14	10/23/20 20:14	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/23/20 20:14	10/23/20 20:14	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.6	%	70.0-130	1	10/23/20 20:14	10/23/20 20:14	615-59-8FID	
2,5-Dibromotoluene (PID)	97.6	%	70.0-130	1	10/23/20 20:14	10/23/20 20:14	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:19	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 03:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 03:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 03:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 03:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 03:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 03:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 03:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 03:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 03:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 03:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 03:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 03:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/22/20 03:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 03:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 03:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 03:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 03:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 03:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 03:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 03:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 03:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 03:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 03:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 03:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 03:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 03:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 03:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 03:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 03:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 03:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 03:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 03:39	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-14	Lab ID: 92501345003	Collected: 10/20/20 14:10	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 03:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 03:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 03:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 03:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 03:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 03:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 03:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 03:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 03:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 03:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 03:39	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 03:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 03:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 03:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 03:39	127-18-4	
Toluene	0.55	ug/L	0.50	1		10/22/20 03:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 03:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 03:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 03:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 03:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 03:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 03:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 03:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 03:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 03:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 03:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 03:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 03:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/22/20 03:39	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/22/20 03:39	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/22/20 03:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-44	Lab ID: 92501345004	Collected: 10/20/20 14:45	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/23/20 20:46	10/23/20 20:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/23/20 20:46	10/23/20 20:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/23/20 20:46	10/23/20 20:46	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/23/20 20:46	10/23/20 20:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.4	%	70.0-130	1	10/23/20 20:46	10/23/20 20:46	615-59-8FID	
2,5-Dibromotoluene (PID)	100	%	70.0-130	1	10/23/20 20:46	10/23/20 20:46	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:23	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	0.60	ug/L	0.50	1		10/22/20 03:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 03:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 03:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 03:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 03:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 03:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 03:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 03:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 03:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 03:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 03:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 03:57	75-00-3	
Chloroform	1.2	ug/L	0.50	1		10/22/20 03:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 03:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 03:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 03:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 03:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 03:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 03:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 03:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 03:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 03:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 03:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 03:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 03:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 03:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 03:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 03:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 03:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 03:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 03:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 03:57	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-44	Lab ID: 92501345004	Collected: 10/20/20 14:45	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 03:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 03:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 03:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 03:57	108-20-3	
Ethylbenzene	0.53	ug/L	0.50	1		10/22/20 03:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 03:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 03:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 03:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 03:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 03:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 03:57	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 03:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 03:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 03:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 03:57	127-18-4	
Toluene	3.0	ug/L	0.50	1		10/22/20 03:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 03:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 03:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 03:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 03:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 03:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 03:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 03:57	96-18-4	
1,2,4-Trimethylbenzene	0.77	ug/L	0.50	1		10/22/20 03:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 03:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 03:57	75-01-4	
m&p-Xylene	2.7	ug/L	1.0	1		10/22/20 03:57	179601-23-1	
o-Xylene	1.4	ug/L	0.50	1		10/22/20 03:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/22/20 03:57	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/22/20 03:57	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/22/20 03:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-45	Lab ID: 92501345005	Collected: 10/20/20 14:40	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/23/20 21:20	10/23/20 21:20		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/23/20 21:20	10/23/20 21:20		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/23/20 21:20	10/23/20 21:20	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/23/20 21:20	10/23/20 21:20	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.6	%	70.0-130	1	10/23/20 21:20	10/23/20 21:20	615-59-8FID	
2,5-Dibromotoluene (PID)	96.9	%	70.0-130	1	10/23/20 21:20	10/23/20 21:20	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	39.5	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:26	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 04:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 04:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 04:15	74-97-5	
Bromodichloromethane	0.58	ug/L	0.50	1		10/22/20 04:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 04:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 04:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 04:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 04:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 04:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 04:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 04:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 04:15	75-00-3	
Chloroform	11.7	ug/L	0.50	1		10/22/20 04:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 04:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 04:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 04:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 04:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 04:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 04:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 04:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 04:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 04:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 04:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 04:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 04:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 04:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 04:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 04:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 04:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 04:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 04:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 04:15	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-45	Lab ID: 92501345005	Collected: 10/20/20 14:40	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 04:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 04:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 04:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 04:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 04:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 04:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 04:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 04:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 04:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 04:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 04:15	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 04:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 04:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 04:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 04:15	127-18-4	
Toluene	0.91	ug/L	0.50	1		10/22/20 04:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 04:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 04:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 04:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 04:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 04:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 04:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 04:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 04:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 04:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 04:15	75-01-4	
m&p-Xylene	1.3	ug/L	1.0	1		10/22/20 04:15	179601-23-1	
o-Xylene	0.74	ug/L	0.50	1		10/22/20 04:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		10/22/20 04:15	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		10/22/20 04:15	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/22/20 04:15	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-46	Lab ID: 92501345006	Collected: 10/20/20 13:15	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/23/20 21:53	10/23/20 21:53		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/23/20 21:53	10/23/20 21:53		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/23/20 21:53	10/23/20 21:53	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/23/20 21:53	10/23/20 21:53	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.7	%	70.0-130	1	10/23/20 21:53	10/23/20 21:53	615-59-8FID	
2,5-Dibromotoluene (PID)	97.6	%	70.0-130	1	10/23/20 21:53	10/23/20 21:53	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:29	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 04:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 04:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 04:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 04:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 04:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 04:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 04:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 04:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 04:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 04:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 04:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 04:33	75-00-3	
Chloroform	17.6	ug/L	0.50	1		10/22/20 04:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 04:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 04:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 04:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 04:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 04:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 04:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 04:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 04:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 04:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 04:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 04:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 04:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 04:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 04:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 04:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 04:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 04:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 04:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 04:33	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-46	Lab ID: 92501345006	Collected: 10/20/20 13:15	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 04:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 04:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 04:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 04:33	108-20-3	
Ethylbenzene	0.52	ug/L	0.50	1		10/22/20 04:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 04:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 04:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 04:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 04:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 04:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 04:33	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 04:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 04:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 04:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 04:33	127-18-4	
Toluene	1.2	ug/L	0.50	1		10/22/20 04:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 04:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 04:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 04:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 04:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 04:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 04:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 04:33	96-18-4	
1,2,4-Trimethylbenzene	1.4	ug/L	0.50	1		10/22/20 04:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 04:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 04:33	75-01-4	
m&p-Xylene	3.6	ug/L	1.0	1		10/22/20 04:33	179601-23-1	
o-Xylene	1.3	ug/L	0.50	1		10/22/20 04:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/22/20 04:33	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/22/20 04:33	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/22/20 04:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-49	Lab ID: 92501345007	Collected: 10/20/20 14:00	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/23/20 22:26	10/23/20 22:26		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/23/20 22:26	10/23/20 22:26		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/23/20 22:26	10/23/20 22:26	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/23/20 22:26	10/23/20 22:26	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.5	%	70.0-130	1	10/23/20 22:26	10/23/20 22:26	615-59-8FID	
2,5-Dibromotoluene (PID)	97.3	%	70.0-130	1	10/23/20 22:26	10/23/20 22:26	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	34.4	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:45	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/22/20 04:51	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 04:51	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 04:51	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 04:51	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 04:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 04:51	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 04:51	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 04:51	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 04:51	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 04:51	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 04:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 04:51	75-00-3	
Chloroform	1.6	ug/L	0.50	1		10/22/20 04:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 04:51	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 04:51	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 04:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 04:51	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 04:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 04:51	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 04:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 04:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 04:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 04:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 04:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 04:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 04:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 04:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 04:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 04:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 04:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 04:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 04:51	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-49	Lab ID: 92501345007	Collected: 10/20/20 14:00	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 04:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 04:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 04:51	10061-02-6	
Diisopropyl ether	0.65	ug/L	0.50	1		10/22/20 04:51	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 04:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 04:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 04:51	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 04:51	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 04:51	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 04:51	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 04:51	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 04:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 04:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 04:51	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 04:51	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/20 04:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 04:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 04:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 04:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 04:51	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 04:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 04:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 04:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 04:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 04:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 04:51	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 04:51	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 04:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/22/20 04:51	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/22/20 04:51	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/22/20 04:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-50	Lab ID: 92501345008	Collected: 10/20/20 14:15	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	7750	ug/L	100	1	10/23/20 22:59	10/23/20 22:59		
Aliphatic (C09-C12)	1990	ug/L	100	1	10/23/20 22:59	10/23/20 22:59		
Aromatic (C09-C10),Unadjusted	398	ug/L	100	1	10/23/20 22:59	10/23/20 22:59	TPHC9C10A	
Total VPH	10100	ug/L	100	1	10/23/20 22:59	10/23/20 22:59	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.4	%	70.0-130	1	10/23/20 22:59	10/23/20 22:59	615-59-8FID	
2,5-Dibromotoluene (PID)	99.4	%	70.0-130	1	10/23/20 22:59	10/23/20 22:59	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	19.2	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:49	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	1370	ug/L	6.2	12.5		10/22/20 23:37	71-43-2	
Bromobenzene	ND	ug/L	6.2	12.5		10/22/20 23:37	108-86-1	
Bromochloromethane	ND	ug/L	6.2	12.5		10/22/20 23:37	74-97-5	
Bromodichloromethane	ND	ug/L	6.2	12.5		10/22/20 23:37	75-27-4	
Bromoform	ND	ug/L	6.2	12.5		10/22/20 23:37	75-25-2	
Bromomethane	ND	ug/L	62.5	12.5		10/22/20 23:37	74-83-9	
n-Butylbenzene	ND	ug/L	6.2	12.5		10/22/20 23:37	104-51-8	
sec-Butylbenzene	ND	ug/L	6.2	12.5		10/22/20 23:37	135-98-8	
tert-Butylbenzene	ND	ug/L	6.2	12.5		10/22/20 23:37	98-06-6	
Carbon tetrachloride	ND	ug/L	6.2	12.5		10/22/20 23:37	56-23-5	
Chlorobenzene	ND	ug/L	6.2	12.5		10/22/20 23:37	108-90-7	
Chloroethane	ND	ug/L	12.5	12.5		10/22/20 23:37	75-00-3	
Chloroform	ND	ug/L	6.2	12.5		10/22/20 23:37	67-66-3	
Chloromethane	ND	ug/L	12.5	12.5		10/22/20 23:37	74-87-3	
2-Chlorotoluene	ND	ug/L	6.2	12.5		10/22/20 23:37	95-49-8	
4-Chlorotoluene	ND	ug/L	6.2	12.5		10/22/20 23:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	12.5	12.5		10/22/20 23:37	96-12-8	
Dibromochloromethane	ND	ug/L	6.2	12.5		10/22/20 23:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	6.2	12.5		10/22/20 23:37	106-93-4	
Dibromomethane	ND	ug/L	6.2	12.5		10/22/20 23:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	6.2	12.5		10/22/20 23:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	6.2	12.5		10/22/20 23:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	6.2	12.5		10/22/20 23:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	6.2	12.5		10/22/20 23:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	6.2	12.5		10/22/20 23:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	6.2	12.5		10/22/20 23:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	6.2	12.5		10/22/20 23:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	6.2	12.5		10/22/20 23:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	6.2	12.5		10/22/20 23:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	6.2	12.5		10/22/20 23:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	6.2	12.5		10/22/20 23:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	6.2	12.5		10/22/20 23:37	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-50	Lab ID: 92501345008	Collected: 10/20/20 14:15	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	6.2	12.5		10/22/20 23:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	6.2	12.5		10/22/20 23:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	6.2	12.5		10/22/20 23:37	10061-02-6	
Diisopropyl ether	208	ug/L	6.2	12.5		10/22/20 23:37	108-20-3	
Ethylbenzene	144	ug/L	6.2	12.5		10/22/20 23:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	25.0	12.5		10/22/20 23:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	6.2	12.5		10/22/20 23:37	98-82-8	
Methylene Chloride	35.8	ug/L	25.0	12.5		10/22/20 23:37	75-09-2	
Methyl-tert-butyl ether	138	ug/L	6.2	12.5		10/22/20 23:37	1634-04-4	
Naphthalene	ND	ug/L	25.0	12.5		10/22/20 23:37	91-20-3	
n-Propylbenzene	ND	ug/L	6.2	12.5		10/22/20 23:37	103-65-1	
Styrene	ND	ug/L	6.2	12.5		10/22/20 23:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	6.2	12.5		10/22/20 23:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	6.2	12.5		10/22/20 23:37	79-34-5	
Tetrachloroethene	ND	ug/L	6.2	12.5		10/22/20 23:37	127-18-4	
Toluene	1980	ug/L	6.2	12.5		10/22/20 23:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	25.0	12.5		10/22/20 23:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	25.0	12.5		10/22/20 23:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	6.2	12.5		10/22/20 23:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	6.2	12.5		10/22/20 23:37	79-00-5	
Trichloroethene	ND	ug/L	6.2	12.5		10/22/20 23:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	12.5	12.5		10/22/20 23:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	6.2	12.5		10/22/20 23:37	96-18-4	
1,2,4-Trimethylbenzene	89.2	ug/L	6.2	12.5		10/22/20 23:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	6.2	12.5		10/22/20 23:37	108-67-8	
Vinyl chloride	ND	ug/L	12.5	12.5		10/22/20 23:37	75-01-4	
m&p-Xylene	611	ug/L	12.5	12.5		10/22/20 23:37	179601-23-1	
o-Xylene	336	ug/L	6.2	12.5		10/22/20 23:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	12.5		10/22/20 23:37	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	12.5		10/22/20 23:37	460-00-4	
Toluene-d8 (S)	98	%	70-130	12.5		10/22/20 23:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-60	Lab ID: 92501345009	Collected: 10/20/20 11:30	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/23/20 23:32	10/23/20 23:32		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/23/20 23:32	10/23/20 23:32		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/23/20 23:32	10/23/20 23:32	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/23/20 23:32	10/23/20 23:32	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.1	%	70.0-130	1	10/23/20 23:32	10/23/20 23:32	615-59-8FID	
2,5-Dibromotoluene (PID)	97.4	%	70.0-130	1	10/23/20 23:32	10/23/20 23:32	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	20.4	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:52	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 03:12	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 03:12	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 03:12	74-97-5	
Bromodichloromethane	0.88	ug/L	0.50	1		10/23/20 03:12	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 03:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 03:12	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 03:12	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 03:12	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 03:12	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 03:12	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 03:12	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 03:12	75-00-3	
Chloroform	3.5	ug/L	0.50	1		10/23/20 03:12	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 03:12	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 03:12	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 03:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 03:12	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 03:12	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 03:12	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 03:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 03:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 03:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 03:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 03:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 03:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 03:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 03:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 03:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 03:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 03:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 03:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 03:12	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: MW-60	Lab ID: 92501345009	Collected: 10/20/20 11:30	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 03:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 03:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 03:12	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 03:12	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 03:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 03:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 03:12	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 03:12	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 03:12	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 03:12	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 03:12	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 03:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 03:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 03:12	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 03:12	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 03:12	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 03:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 03:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 03:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 03:12	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 03:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 03:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 03:12	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 03:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 03:12	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 03:12	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 03:12	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 03:12	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/23/20 03:12	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/23/20 03:12	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/23/20 03:12	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: Trip Blank	Lab ID: 92501345010	Collected: 10/20/20 00:00	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/22/20 22:26	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 22:26	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 22:26	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 22:26	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 22:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 22:26	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 22:26	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 22:26	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 22:26	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 22:26	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 22:26	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 22:26	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/22/20 22:26	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 22:26	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 22:26	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 22:26	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 22:26	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 22:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 22:26	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 22:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 22:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 22:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 22:26	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 22:26	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 22:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 22:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 22:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 22:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 22:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 22:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 22:26	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 22:26	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 22:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 22:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 22:26	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 22:26	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 22:26	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 22:26	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 22:26	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 22:26	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 22:26	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 22:26	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 22:26	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 22:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 22:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 22:26	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Sample: Trip Blank		Lab ID: 92501345010	Collected: 10/20/20 00:00	Received: 10/20/20 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 22:26	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/20 22:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 22:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 22:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 22:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 22:26	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 22:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 22:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 22:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 22:26	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 22:26	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 22:26	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 22:26	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 22:26	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/22/20 22:26	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/22/20 22:26	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/22/20 22:26	2037-26-5	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

QC Batch:	1564672	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92501345001, 92501345002, 92501345003, 92501345004, 92501345005, 92501345006, 92501345007, 92501345008, 92501345009

METHOD BLANK: R3585156-2 Matrix: Water

Associated Lab Samples: 92501345001, 92501345002, 92501345003, 92501345004, 92501345005, 92501345006, 92501345007, 92501345008, 92501345009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/23/20 15:53	
Aliphatic (C09-C12)	ug/L	ND	100	10/23/20 15:53	
Aromatic (C09-C10), Unadjusted	ug/L	ND	100	10/23/20 15:53	
Total VPH	ug/L	ND	100	10/23/20 15:53	
2,5-Dibromotoluene (FID)	%	82.7	70.0-130	10/23/20 15:53	
2,5-Dibromotoluene (PID)	%	89.2	70.0-130	10/23/20 15:53	

LABORATORY CONTROL SAMPLE & LCSD: R3585156-1 R3585156-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	944	954	78.7	79.5	70.0-130	1.05	25	
Aliphatic (C09-C12)	ug/L	1400	1350	1380	96.4	98.6	70.0-130	2.20	25	
Aromatic (C09-C10), Unadjusted	ug/L	200	259	210	130	105	70.0-130	20.9	25	
Total VPH	ug/L	2800	2550	2540	91.1	90.7	70.0-130	0.393	25	
2,5-Dibromotoluene (FID)	%				95.6	90.3	70.0-130			
2,5-Dibromotoluene (PID)	%				106	96.5	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

QC Batch:	574575	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92501345001, 92501345002, 92501345003, 92501345004, 92501345005, 92501345006, 92501345007, 92501345008, 92501345009

METHOD BLANK: 3041788 Matrix: Water

Associated Lab Samples: 92501345001, 92501345002, 92501345003, 92501345004, 92501345005, 92501345006, 92501345007, 92501345008, 92501345009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/21/20 18:20	

LABORATORY CONTROL SAMPLE: 3041789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	492	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3041790 3041791

Parameter	92501343001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result									
Lead	ug/L	7.8	500	500	543	527	107	104	75-125	3	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

QC Batch: 574790

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501345002, 92501345003, 92501345004, 92501345005, 92501345006, 92501345007

METHOD BLANK: 3042818

Matrix: Water

Associated Lab Samples: 92501345002, 92501345003, 92501345004, 92501345005, 92501345006, 92501345007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1-Dichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,1-Dichloroethene	ug/L	ND	0.50	10/21/20 23:11	
1,1-Dichloropropene	ug/L	ND	0.50	10/21/20 23:11	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/21/20 23:11	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/21/20 23:11	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/21/20 23:11	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/21/20 23:11	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dichloroethane	ug/L	ND	0.50	10/21/20 23:11	
1,2-Dichloropropane	ug/L	ND	0.50	10/21/20 23:11	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/21/20 23:11	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
1,3-Dichloropropane	ug/L	ND	0.50	10/21/20 23:11	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
2,2-Dichloropropane	ug/L	ND	0.50	10/21/20 23:11	
2-Chlorotoluene	ug/L	ND	0.50	10/21/20 23:11	
4-Chlorotoluene	ug/L	ND	0.50	10/21/20 23:11	
Benzene	ug/L	ND	0.50	10/21/20 23:11	
Bromobenzene	ug/L	ND	0.50	10/21/20 23:11	
Bromochloromethane	ug/L	ND	0.50	10/21/20 23:11	
Bromodichloromethane	ug/L	ND	0.50	10/21/20 23:11	
Bromoform	ug/L	ND	0.50	10/21/20 23:11	
Bromomethane	ug/L	ND	5.0	10/21/20 23:11	
Carbon tetrachloride	ug/L	ND	0.50	10/21/20 23:11	
Chlorobenzene	ug/L	ND	0.50	10/21/20 23:11	
Chloroethane	ug/L	ND	1.0	10/21/20 23:11	
Chloroform	ug/L	ND	0.50	10/21/20 23:11	
Chloromethane	ug/L	ND	1.0	10/21/20 23:11	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/21/20 23:11	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/21/20 23:11	
Dibromochloromethane	ug/L	ND	0.50	10/21/20 23:11	
Dibromomethane	ug/L	ND	0.50	10/21/20 23:11	
Dichlorodifluoromethane	ug/L	ND	0.50	10/21/20 23:11	
Diisopropyl ether	ug/L	ND	0.50	10/21/20 23:11	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501345

METHOD BLANK: 3042818 Matrix: Water
Associated Lab Samples: 92501345002, 92501345003, 92501345004, 92501345005, 92501345006, 92501345007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/21/20 23:11	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/21/20 23:11	
m&p-Xylene	ug/L	ND	1.0	10/21/20 23:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/21/20 23:11	
Methylene Chloride	ug/L	ND	2.0	10/21/20 23:11	
n-Butylbenzene	ug/L	ND	0.50	10/21/20 23:11	
n-Propylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Naphthalene	ug/L	ND	2.0	10/21/20 23:11	
o-Xylene	ug/L	ND	0.50	10/21/20 23:11	
sec-Butylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Styrene	ug/L	ND	0.50	10/21/20 23:11	
tert-Butylbenzene	ug/L	ND	0.50	10/21/20 23:11	
Tetrachloroethene	ug/L	ND	0.50	10/21/20 23:11	
Toluene	ug/L	ND	0.50	10/21/20 23:11	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/21/20 23:11	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/21/20 23:11	
Trichloroethene	ug/L	ND	0.50	10/21/20 23:11	
Trichlorofluoromethane	ug/L	ND	1.0	10/21/20 23:11	
Vinyl chloride	ug/L	ND	1.0	10/21/20 23:11	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/21/20 23:11	
4-Bromofluorobenzene (S)	%	96	70-130	10/21/20 23:11	
Toluene-d8 (S)	%	100	70-130	10/21/20 23:11	

LABORATORY CONTROL SAMPLE: 3042819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	50.2	100	60-140	
1,1,1-Trichloroethane	ug/L	50	46.6	93	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	60-140	
1,1,2-Trichloroethane	ug/L	50	49.0	98	60-140	
1,1-Dichloroethane	ug/L	50	47.7	95	60-140	
1,1-Dichloroethene	ug/L	50	49.7	99	60-140	
1,1-Dichloropropene	ug/L	50	47.3	95	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.1	106	60-140	
1,2,3-Trichloropropane	ug/L	50	52.0	104	60-140	
1,2,4-Trichlorobenzene	ug/L	50	52.8	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.7	97	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.5	115	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.3	105	60-140	
1,2-Dichlorobenzene	ug/L	50	50.0	100	60-140	
1,2-Dichloroethane	ug/L	50	43.9	88	60-140	
1,2-Dichloropropane	ug/L	50	48.7	97	60-140	
1,3,5-Trimethylbenzene	ug/L	50	48.6	97	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501345

LABORATORY CONTROL SAMPLE: 3042819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.2	100	60-140	
1,3-Dichloropropane	ug/L	50	51.5	103	60-140	
1,4-Dichlorobenzene	ug/L	50	50.0	100	60-140	
2,2-Dichloropropane	ug/L	50	46.6	93	60-140	
2-Chlorotoluene	ug/L	50	50.4	101	60-140	
4-Chlorotoluene	ug/L	50	49.3	99	60-140	
Benzene	ug/L	50	47.7	95	60-140	
Bromobenzene	ug/L	50	49.0	98	60-140	
Bromochloromethane	ug/L	50	47.6	95	60-140	
Bromodichloromethane	ug/L	50	47.6	95	60-140	
Bromoform	ug/L	50	49.6	99	60-140	
Bromomethane	ug/L	50	53.8	108	60-140	
Carbon tetrachloride	ug/L	50	44.6	89	60-140	
Chlorobenzene	ug/L	50	49.3	99	60-140	
Chloroethane	ug/L	50	36.7	73	60-140	
Chloroform	ug/L	50	49.2	98	60-140	
Chloromethane	ug/L	50	43.8	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.2	100	60-140	
Dibromochloromethane	ug/L	50	53.1	106	60-140	
Dibromomethane	ug/L	50	51.0	102	60-140	
Dichlorodifluoromethane	ug/L	50	40.0	80	60-140	
Diisopropyl ether	ug/L	50	47.1	94	60-140	
Ethylbenzene	ug/L	50	47.9	96	60-140	
Hexachloro-1,3-butadiene	ug/L	50	47.8	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.2	98	60-140	
m&p-Xylene	ug/L	100	97.2	97	60-140	
Methyl-tert-butyl ether	ug/L	50	48.8	98	60-140	
Methylene Chloride	ug/L	50	47.0	94	60-140	
n-Butylbenzene	ug/L	50	50.0	100	60-140	
n-Propylbenzene	ug/L	50	48.8	98	60-140	
Naphthalene	ug/L	50	57.5	115	60-140	
o-Xylene	ug/L	50	49.6	99	60-140	
sec-Butylbenzene	ug/L	50	47.9	96	60-140	
Styrene	ug/L	50	50.4	101	60-140	
tert-Butylbenzene	ug/L	50	41.2	82	60-140	
Tetrachloroethene	ug/L	50	48.4	97	60-140	
Toluene	ug/L	50	46.9	94	60-140	
trans-1,2-Dichloroethene	ug/L	50	47.8	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.6	99	60-140	
Trichloroethene	ug/L	50	47.5	95	60-140	
Trichlorofluoromethane	ug/L	50	36.9	74	60-140	
Vinyl chloride	ug/L	50	42.0	84	60-140	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3042820 3042821												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92501343001 Result	Spike Conc.	Spike Conc.	MSD Conc.							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20	21.1	21.4	105	107	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	20	20	20	20.9	22.1	105	111	60-140	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	20.4	20.7	102	103	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	20.3	20.7	102	104	60-140	2	
1,1-Dichloroethane	ug/L	ND	20	20	20	20.6	21.7	103	109	60-140	5	
1,1-Dichloroethene	ug/L	ND	20	20	20	22.3	22.8	111	114	60-140	2	
1,1-Dichloropropene	ug/L	ND	20	20	20	21.1	21.6	106	108	60-140	2	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20	20.9	21.3	104	106	60-140	2	
1,2,3-Trichloropropane	ug/L	ND	20	20	20	19.9	21.6	99	108	60-140	8	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	20.6	21.9	103	110	60-140	6	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	21.6	21.8	108	109	60-140	1	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20	22.0	22.1	110	110	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20	21.1	21.3	105	107	60-140	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	20	20.1	20.9	101	104	60-140	4	
1,2-Dichloroethane	ug/L	ND	20	20	20	18.1	18.8	90	94	60-140	4	
1,2-Dichloropropane	ug/L	ND	20	20	20	21.0	21.6	105	108	60-140	3	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20	21.4	22.5	107	112	60-140	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	20	20.2	21.3	101	106	60-140	5	
1,3-Dichloropropane	ug/L	ND	20	20	20	21.2	22.0	106	110	60-140	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	20	20.3	21.7	101	108	60-140	7	
2,2-Dichloropropane	ug/L	ND	20	20	20	20.3	21.0	101	105	60-140	3	
2-Chlorotoluene	ug/L	ND	20	20	20	21.0	22.0	105	110	60-140	5	
4-Chlorotoluene	ug/L	ND	20	20	20	20.9	21.8	104	109	60-140	4	
Benzene	ug/L	ND	20	20	20	20.8	21.8	104	109	60-140	4	
Bromobenzene	ug/L	ND	20	20	20	20.7	21.5	103	108	60-140	4	
Bromochloromethane	ug/L	ND	20	20	20	19.9	20.4	100	102	60-140	2	
Bromodichloromethane	ug/L	ND	20	20	20	19.3	20.6	96	103	60-140	7	
Bromoform	ug/L	ND	20	20	20	19.0	19.3	95	97	60-140	2	
Bromomethane	ug/L	ND	20	20	20	26.5	27.1	132	136	60-140	2	
Carbon tetrachloride	ug/L	ND	20	20	20	20.7	21.7	104	108	60-140	5	
Chlorobenzene	ug/L	ND	20	20	20	21.1	21.5	105	107	60-140	2	
Chloroethane	ug/L	ND	20	20	20	19.2	20.4	96	102	60-140	6	
Chloroform	ug/L	2.0	20	20	20	23.0	24.2	105	111	60-140	5	
Chloromethane	ug/L	ND	20	20	20	18.5	19.2	93	96	60-140	4	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20	20.3	20.9	101	104	60-140	3	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20	20.7	21.7	103	109	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	20	21.5	21.7	108	109	60-140	1	
Dibromomethane	ug/L	ND	20	20	20	20.5	21.3	102	106	60-140	4	
Dichlorodifluoromethane	ug/L	ND	20	20	20	18.9	19.5	94	98	60-140	4	
Diisopropyl ether	ug/L	ND	20	20	20	19.4	20.1	97	100	60-140	3	
Ethylbenzene	ug/L	ND	20	20	20	21.1	21.5	106	107	60-140	2	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20	22.0	23.2	110	116	60-140	6	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	20	21.4	22.0	107	110	60-140	3	
m&p-Xylene	ug/L	ND	40	40	40	42.2	43.3	105	108	60-140	3	
Methyl-tert-butyl ether	ug/L	ND	20	20	20	19.4	20.2	97	101	60-140	4	
Methylene Chloride	ug/L	ND	20	20	20	19.7	20.5	99	102	60-140	4	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Parameter	92501343001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	20	20	22.0	22.9	110	114	60-140	4				
n-Propylbenzene	ug/L	ND	20	20	21.8	22.8	109	114	60-140	5				
Naphthalene	ug/L	ND	20	20	22.7	22.0	113	110	60-140	3				
o-Xylene	ug/L	ND	20	20	20.9	21.3	105	106	60-140	2				
sec-Butylbenzene	ug/L	ND	20	20	21.7	22.9	109	115	60-140	5				
Styrene	ug/L	ND	20	20	20.2	21.0	101	105	60-140	4				
tert-Butylbenzene	ug/L	ND	20	20	18.5	19.5	92	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Toluene	ug/L	ND	20	20	20.6	21.4	103	107	60-140	4				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.1	22.3	105	112	60-140	6				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.0	20.5	100	103	60-140	2				
Trichloroethene	ug/L	ND	20	20	21.0	22.0	105	110	60-140	4				
Trichlorofluoromethane	ug/L	ND	20	20	19.3	20.1	96	101	60-140	4				
Vinyl chloride	ug/L	ND	20	20	19.8	19.9	99	99	60-140	0				
1,2-Dichloroethane-d4 (S)	%						103	98	70-130					
4-Bromofluorobenzene (S)	%						99	96	70-130					
Toluene-d8 (S)	%						99	99	70-130					

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

QC Batch:	575107	Analysis Method:	SM 6200B
QC Batch Method:	SM 6200B	Analysis Description:	6200B MSV
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92501345001, 92501345008, 92501345009, 92501345010

METHOD BLANK: 3044512 Matrix: Water

Associated Lab Samples: 92501345001, 92501345008, 92501345009, 92501345010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1-Dichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1-Dichloroethene	ug/L	ND	0.50	10/22/20 22:08	
1,1-Dichloropropene	ug/L	ND	0.50	10/22/20 22:08	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/22/20 22:08	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/22/20 22:08	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/22/20 22:08	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/22/20 22:08	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dichloropropane	ug/L	ND	0.50	10/22/20 22:08	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/22/20 22:08	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
1,3-Dichloropropane	ug/L	ND	0.50	10/22/20 22:08	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
2,2-Dichloropropane	ug/L	ND	0.50	10/22/20 22:08	
2-Chlorotoluene	ug/L	ND	0.50	10/22/20 22:08	
4-Chlorotoluene	ug/L	ND	0.50	10/22/20 22:08	
Benzene	ug/L	ND	0.50	10/22/20 22:08	
Bromobenzene	ug/L	ND	0.50	10/22/20 22:08	
Bromochloromethane	ug/L	ND	0.50	10/22/20 22:08	
Bromodichloromethane	ug/L	ND	0.50	10/22/20 22:08	
Bromoform	ug/L	ND	0.50	10/22/20 22:08	
Bromomethane	ug/L	ND	5.0	10/22/20 22:08	
Carbon tetrachloride	ug/L	ND	0.50	10/22/20 22:08	
Chlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
Chloroethane	ug/L	ND	1.0	10/22/20 22:08	
Chloroform	ug/L	ND	0.50	10/22/20 22:08	
Chloromethane	ug/L	ND	1.0	10/22/20 22:08	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/22/20 22:08	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/22/20 22:08	
Dibromochloromethane	ug/L	ND	0.50	10/22/20 22:08	
Dibromomethane	ug/L	ND	0.50	10/22/20 22:08	
Dichlorodifluoromethane	ug/L	ND	0.50	10/22/20 22:08	
Diisopropyl ether	ug/L	ND	0.50	10/22/20 22:08	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

METHOD BLANK: 3044512

Matrix: Water

Associated Lab Samples: 92501345001, 92501345008, 92501345009, 92501345010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/22/20 22:08	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/22/20 22:08	
m&p-Xylene	ug/L	ND	1.0	10/22/20 22:08	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/22/20 22:08	
Methylene Chloride	ug/L	ND	2.0	10/22/20 22:08	
n-Butylbenzene	ug/L	ND	0.50	10/22/20 22:08	
n-Propylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Naphthalene	ug/L	ND	2.0	10/22/20 22:08	
o-Xylene	ug/L	ND	0.50	10/22/20 22:08	
sec-Butylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Styrene	ug/L	ND	0.50	10/22/20 22:08	
tert-Butylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Tetrachloroethene	ug/L	ND	0.50	10/22/20 22:08	
Toluene	ug/L	ND	0.50	10/22/20 22:08	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/22/20 22:08	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/22/20 22:08	
Trichloroethene	ug/L	ND	0.50	10/22/20 22:08	
Trichlorofluoromethane	ug/L	ND	1.0	10/22/20 22:08	
Vinyl chloride	ug/L	ND	1.0	10/22/20 22:08	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/22/20 22:08	
4-Bromofluorobenzene (S)	%	95	70-130	10/22/20 22:08	
Toluene-d8 (S)	%	100	70-130	10/22/20 22:08	

LABORATORY CONTROL SAMPLE: 3044513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.7	99	60-140	
1,1,1-Trichloroethane	ug/L	50	48.1	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	60-140	
1,1,2-Trichloroethane	ug/L	50	49.1	98	60-140	
1,1-Dichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethene	ug/L	50	51.6	103	60-140	
1,1-Dichloropropene	ug/L	50	47.9	96	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.2	104	60-140	
1,2,3-Trichloropropane	ug/L	50	48.3	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.1	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	60-140	
1,2-Dichlorobenzene	ug/L	50	50.3	101	60-140	
1,2-Dichloroethane	ug/L	50	42.9	86	60-140	
1,2-Dichloropropane	ug/L	50	49.7	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.2	98	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

LABORATORY CONTROL SAMPLE: 3044513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	49.6	99	60-140	
2,2-Dichloropropane	ug/L	50	47.9	96	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.9	100	60-140	
Benzene	ug/L	50	47.6	95	60-140	
Bromobenzene	ug/L	50	48.7	97	60-140	
Bromochloromethane	ug/L	50	47.5	95	60-140	
Bromodichloromethane	ug/L	50	47.5	95	60-140	
Bromoform	ug/L	50	47.9	96	60-140	
Bromomethane	ug/L	50	55.6	111	60-140	
Carbon tetrachloride	ug/L	50	47.0	94	60-140	
Chlorobenzene	ug/L	50	48.9	98	60-140	
Chloroethane	ug/L	50	37.4	75	60-140	
Chloroform	ug/L	50	47.6	95	60-140	
Chloromethane	ug/L	50	43.7	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.6	101	60-140	
Dibromochloromethane	ug/L	50	52.1	104	60-140	
Dibromomethane	ug/L	50	50.1	100	60-140	
Dichlorodifluoromethane	ug/L	50	42.5	85	60-140	
Diisopropyl ether	ug/L	50	46.6	93	60-140	
Ethylbenzene	ug/L	50	47.7	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.2	98	60-140	
m&p-Xylene	ug/L	100	96.9	97	60-140	
Methyl-tert-butyl ether	ug/L	50	48.0	96	60-140	
Methylene Chloride	ug/L	50	49.2	98	60-140	
n-Butylbenzene	ug/L	50	50.8	102	60-140	
n-Propylbenzene	ug/L	50	49.5	99	60-140	
Naphthalene	ug/L	50	55.3	111	60-140	
o-Xylene	ug/L	50	49.2	98	60-140	
sec-Butylbenzene	ug/L	50	49.3	99	60-140	
Styrene	ug/L	50	49.4	99	60-140	
tert-Butylbenzene	ug/L	50	42.3	85	60-140	
Tetrachloroethene	ug/L	50	48.2	96	60-140	
Toluene	ug/L	50	47.5	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.2	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.8	98	60-140	
Trichlorofluoromethane	ug/L	50	40.0	80	60-140	
Vinyl chloride	ug/L	50	43.2	86	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Parameter	92501238003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	524	538	105	108	60-140	3				
1,1,1-Trichloroethane	ug/L	ND	500	500	525	548	105	110	60-140	4				
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	505	526	101	105	60-140	4				
1,1,2-Trichloroethane	ug/L	ND	500	500	504	530	101	106	60-140	5				
1,1-Dichloroethane	ug/L	ND	500	500	520	536	104	107	60-140	3				
1,1-Dichloroethene	ug/L	ND	500	500	586	591	117	118	60-140	1				
1,1-Dichloropropene	ug/L	ND	500	500	530	549	106	110	60-140	3				
1,2,3-Trichlorobenzene	ug/L	ND	500	500	482	525	96	105	60-140	9				
1,2,3-Trichloropropane	ug/L	ND	500	500	510	520	102	104	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	500	500	486	533	97	107	60-140	9				
1,2,4-Trimethylbenzene	ug/L	1380	500	500	1800	1910	85	106	60-140	6				
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	530	560	106	112	60-140	5				
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	531	535	106	107	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	500	500	495	534	99	107	60-140	8				
1,2-Dichloroethane	ug/L	ND	500	500	458	478	92	96	60-140	4				
1,2-Dichloropropane	ug/L	ND	500	500	526	548	105	110	60-140	4				
1,3,5-Trimethylbenzene	ug/L	ND	500	500	840	887	168	177	60-140	5 M1				
1,3-Dichlorobenzene	ug/L	ND	500	500	496	532	99	106	60-140	7				
1,3-Dichloropropane	ug/L	ND	500	500	541	558	108	112	60-140	3				
1,4-Dichlorobenzene	ug/L	ND	500	500	497	527	99	105	60-140	6				
2,2-Dichloropropane	ug/L	ND	500	500	453	451	91	90	60-140	0				
2-Chlorotoluene	ug/L	ND	500	500	563	594	113	119	60-140	5				
4-Chlorotoluene	ug/L	ND	500	500	509	536	102	107	60-140	5				
Benzene	ug/L	194	500	500	713	741	104	109	60-140	4				
Bromobenzene	ug/L	ND	500	500	513	538	103	108	60-140	5				
Bromochloromethane	ug/L	ND	500	500	503	501	101	100	60-140	0				
Bromodichloromethane	ug/L	ND	500	500	494	518	99	104	60-140	5				
Bromoform	ug/L	ND	500	500	470	495	94	99	60-140	5				
Bromomethane	ug/L	ND	500	500	479	636	96	127	60-140	28				
Carbon tetrachloride	ug/L	ND	500	500	518	550	104	110	60-140	6				
Chlorobenzene	ug/L	ND	500	500	521	546	104	109	60-140	5				
Chloroethane	ug/L	ND	500	500	477	498	95	100	60-140	4				
Chloroform	ug/L	ND	500	500	513	546	103	109	60-140	6				
Chloromethane	ug/L	ND	500	500	460	479	92	96	60-140	4				
cis-1,2-Dichloroethene	ug/L	ND	500	500	503	532	101	106	60-140	6				
cis-1,3-Dichloropropene	ug/L	ND	500	500	508	521	102	104	60-140	2				
Dibromochloromethane	ug/L	ND	500	500	515	545	103	109	60-140	6				
Dibromomethane	ug/L	ND	500	500	519	551	104	110	60-140	6				
Dichlorodifluoromethane	ug/L	ND	500	500	459	470	92	94	60-140	2				
Diisopropyl ether	ug/L	ND	500	500	492	508	98	102	60-140	3				
Ethylbenzene	ug/L	1450	500	500	1950	2020	101	115	60-140	4				
Hexachloro-1,3-butadiene	ug/L	ND	500	500	462	511	92	102	60-140	10				
Isopropylbenzene (Cumene)	ug/L	80.4	500	500	609	642	106	112	60-140	5				
m&p-Xylene	ug/L	3010	1000	1000	3970	4110	96	110	60-140	3				
Methyl-tert-butyl ether	ug/L	ND	500	500	503	504	101	101	60-140	0				
Methylene Chloride	ug/L	62.4	500	500	569	565	101	100	60-140	1				

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Parameter	Units	3044514		3044515		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92501238003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	500	500	547	580	109	116	60-140	6		
n-Propylbenzene	ug/L	ND	500	500	724	765	145	153	60-140	6	M1	
Naphthalene	ug/L	818	500	500	1330	1440	102	124	60-140	8		
o-Xylene	ug/L	1480	500	500	1990	2080	102	119	60-140	4		
sec-Butylbenzene	ug/L	ND	500	500	533	570	107	114	60-140	7		
Styrene	ug/L	ND	500	500	529	560	106	112	60-140	6		
tert-Butylbenzene	ug/L	ND	500	500	451	485	90	97	60-140	7		
Tetrachloroethene	ug/L	ND	500	500	524	538	105	108	60-140	3		
Toluene	ug/L	3040	500	500	3450	3580	82	108	60-140	4		
trans-1,2-Dichloroethene	ug/L	ND	500	500	523	551	105	110	60-140	5		
trans-1,3-Dichloropropene	ug/L	ND	500	500	491	514	98	103	60-140	5		
Trichloroethene	ug/L	ND	500	500	529	551	106	110	60-140	4		
Trichlorofluoromethane	ug/L	ND	500	500	476	499	95	100	60-140	5		
Vinyl chloride	ug/L	ND	500	500	476	505	95	101	60-140	6		
1,2-Dichloroethane-d4 (S)	%						101	100	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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QUALIFIERS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501345

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501345001	MW-08	MADEPV	1564672	MADEP VPH	1564672
92501345002	MW-13	MADEPV	1564672	MADEP VPH	1564672
92501345003	MW-14	MADEPV	1564672	MADEP VPH	1564672
92501345004	MW-44	MADEPV	1564672	MADEP VPH	1564672
92501345005	MW-45	MADEPV	1564672	MADEP VPH	1564672
92501345006	MW-46	MADEPV	1564672	MADEP VPH	1564672
92501345007	MW-49	MADEPV	1564672	MADEP VPH	1564672
92501345008	MW-50	MADEPV	1564672	MADEP VPH	1564672
92501345009	MW-60	MADEPV	1564672	MADEP VPH	1564672
92501345001	MW-08	EPA 3010A	574575	EPA 6010D	574590
92501345002	MW-13	EPA 3010A	574575	EPA 6010D	574590
92501345003	MW-14	EPA 3010A	574575	EPA 6010D	574590
92501345004	MW-44	EPA 3010A	574575	EPA 6010D	574590
92501345005	MW-45	EPA 3010A	574575	EPA 6010D	574590
92501345006	MW-46	EPA 3010A	574575	EPA 6010D	574590
92501345007	MW-49	EPA 3010A	574575	EPA 6010D	574590
92501345008	MW-50	EPA 3010A	574575	EPA 6010D	574590
92501345009	MW-60	EPA 3010A	574575	EPA 6010D	574590
92501345001	MW-08	SM 6200B	575107		
92501345002	MW-13	SM 6200B	574790		
92501345003	MW-14	SM 6200B	574790		
92501345004	MW-44	SM 6200B	574790		
92501345005	MW-45	SM 6200B	574790		
92501345006	MW-46	SM 6200B	574790		
92501345007	MW-49	SM 6200B	574790		
92501345008	MW-50	SM 6200B	575107		
92501345009	MW-60	SM 6200B	575107		
92501345010	Trip Blank	SM 6200B	575107		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition
Upon Receipt

Client Name:

AECOM

Project #:

WO# : 92501345



92501345

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: DW 10/20/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

Yes No N/A

Thermometer:

IR Gun ID: 92T061

Type of Ice: Wet Blue None

Cooler Temp (°C): 4.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 4.1

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)?

Yes No

Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Hold Time Analysis (COC)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<u>DW 10/20/20</u> <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

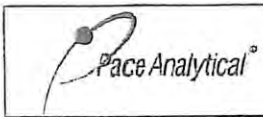
Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project **WO# : 92501345**

PM: NMG Due Date: 10/27/20
 CLIENT: 92-AECOM CHA

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																7												
2																7												
3																7												
4																7												
5																7												
6																7												
7																7												
8																7												
9																7												
10																2												
11																												
12																												

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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).



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: AECOM Report To: Andrew Wreschnig
 Address: 6000 Fairview Road Copy To:
 Suite 200, Charlotte, NC 28226
 Email: Purchase Order #:
 Phone: (704)522-0330 Fax: Project Name: Colonial Pipeline Emergency Response
 Requested Due Date: Project #:

Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: nicole.gastrowski@pacealabs.com
 Pace Profile #: 12518

Regulatory Agency:
 State / Location: NC

Page : 1 Of 1

ITEM #	SAMPLE ID	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
						START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				
1	MW-08	Dinking Water	DM	WT	G	10/20	13:20	8											001
2	MW-13	Waste Water	WW				15:30												002
3	MW-14	Product	P				14:10												003
4	MW-44	Solvent	S				14:45												004
5	MW-45	Oil	OL				14:40												005
6	MW-46	Wipe	WP				13:15												006
7	MW-49	Other	AR				14:00												007
8	MW-50	Tissue	TS				14:15												008
9	MW-60						11:30												009
10	Trip Blank																		010
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Vandy R. Fort / AECOM	10/20/20	1600	MJ Spencer / HR	10/20/20	1600	4.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: EMILY LOVE
 SIGNATURE of SAMPLER: *Emily R. Fort* DATE Signed: 10/20/2020

October 26, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501355

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501355

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501355001	MW-28	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501355002	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

Sample: MW-28	Lab ID: 92501355001	Collected: 10/20/20 09:30	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/23/20 18:35	10/23/20 18:35		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/23/20 18:35	10/23/20 18:35		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/23/20 18:35	10/23/20 18:35	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/23/20 18:35	10/23/20 18:35	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.0	%	70.0-130	1	10/23/20 18:35	10/23/20 18:35	615-59-8FID	
2,5-Dibromotoluene (PID)	95.2	%	70.0-130	1	10/23/20 18:35	10/23/20 18:35	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	27.6	ug/L	5.0	1	10/21/20 01:39	10/21/20 19:55	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 03:30	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 03:30	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 03:30	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 03:30	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 03:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 03:30	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 03:30	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 03:30	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 03:30	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 03:30	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 03:30	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 03:30	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 03:30	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 03:30	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 03:30	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 03:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 03:30	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 03:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 03:30	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 03:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 03:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 03:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 03:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 03:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 03:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 03:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 03:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 03:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 03:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 03:30	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 03:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 03:30	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

Sample: MW-28	Lab ID: 92501355001	Collected: 10/20/20 09:30	Received: 10/20/20 16:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 03:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 03:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 03:30	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 03:30	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 03:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 03:30	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 03:30	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 03:30	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 03:30	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 03:30	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 03:30	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 03:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 03:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 03:30	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 03:30	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 03:30	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 03:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 03:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 03:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 03:30	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 03:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 03:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 03:30	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 03:30	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 03:30	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 03:30	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 03:30	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 03:30	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/23/20 03:30	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/23/20 03:30	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 03:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

Sample: Trip Blank		Lab ID: 92501355002	Collected: 10/20/20 00:00	Received: 10/20/20 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/22/20 22:44	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/22/20 22:44	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/22/20 22:44	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/22/20 22:44	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/22/20 22:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/22/20 22:44	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/22/20 22:44	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/22/20 22:44	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/22/20 22:44	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/22/20 22:44	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/22/20 22:44	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/22/20 22:44	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/22/20 22:44	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/22/20 22:44	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 22:44	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/22/20 22:44	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/22/20 22:44	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/22/20 22:44	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/22/20 22:44	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/22/20 22:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 22:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 22:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/22/20 22:44	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/22/20 22:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/22/20 22:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/22/20 22:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/22/20 22:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 22:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/22/20 22:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 22:44	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/22/20 22:44	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/22/20 22:44	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/22/20 22:44	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 22:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/22/20 22:44	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/22/20 22:44	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/22/20 22:44	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/22/20 22:44	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/22/20 22:44	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/22/20 22:44	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/22/20 22:44	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/22/20 22:44	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/22/20 22:44	103-65-1	
Styrene	ND	ug/L	0.50	1		10/22/20 22:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 22:44	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/22/20 22:44	79-34-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

Sample: Trip Blank		Lab ID: 92501355002	Collected: 10/20/20 00:00	Received: 10/20/20 16:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/22/20 22:44	127-18-4	
Toluene	ND	ug/L	0.50	1		10/22/20 22:44	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 22:44	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/22/20 22:44	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/22/20 22:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/22/20 22:44	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/22/20 22:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/22/20 22:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/22/20 22:44	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 22:44	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/22/20 22:44	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/22/20 22:44	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/22/20 22:44	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/22/20 22:44	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/22/20 22:44	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/22/20 22:44	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/22/20 22:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

QC Batch: 1564672

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501355001

METHOD BLANK: R3585156-2

Matrix: Water

Associated Lab Samples: 92501355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/23/20 15:53	
Aliphatic (C09-C12)	ug/L	ND	100	10/23/20 15:53	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/23/20 15:53	
Total VPH	ug/L	ND	100	10/23/20 15:53	
2,5-Dibromotoluene (FID)	%	82.7	70.0-130	10/23/20 15:53	
2,5-Dibromotoluene (PID)	%	89.2	70.0-130	10/23/20 15:53	

LABORATORY CONTROL SAMPLE & LCSD: R3585156-1 R3585156-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	944	954	78.7	79.5	70.0-130	1.05	25	
Aliphatic (C09-C12)	ug/L	1400	1350	1380	96.4	98.6	70.0-130	2.20	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	259	210	130	105	70.0-130	20.9	25	
Total VPH	ug/L	2800	2550	2540	91.1	90.7	70.0-130	0.393	25	
2,5-Dibromotoluene (FID)	%				95.6	90.3	70.0-130			
2,5-Dibromotoluene (PID)	%				106	96.5	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501355

QC Batch: 574575	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501355001

METHOD BLANK: 3041788 Matrix: Water
Associated Lab Samples: 92501355001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/21/20 18:20	

LABORATORY CONTROL SAMPLE: 3041789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	492	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3041790 3041791

Parameter	Units	92501343001		3041790		3041791		% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Lead	ug/L	7.8	500	543	527	107	104	75-125	3	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501355

QC Batch: 575107 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501355001, 92501355002

METHOD BLANK: 3044512 Matrix: Water

Associated Lab Samples: 92501355001, 92501355002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1-Dichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,1-Dichloroethene	ug/L	ND	0.50	10/22/20 22:08	
1,1-Dichloropropene	ug/L	ND	0.50	10/22/20 22:08	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/22/20 22:08	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/22/20 22:08	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/22/20 22:08	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/22/20 22:08	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dichloroethane	ug/L	ND	0.50	10/22/20 22:08	
1,2-Dichloropropane	ug/L	ND	0.50	10/22/20 22:08	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/22/20 22:08	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
1,3-Dichloropropane	ug/L	ND	0.50	10/22/20 22:08	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
2,2-Dichloropropane	ug/L	ND	0.50	10/22/20 22:08	
2-Chlorotoluene	ug/L	ND	0.50	10/22/20 22:08	
4-Chlorotoluene	ug/L	ND	0.50	10/22/20 22:08	
Benzene	ug/L	ND	0.50	10/22/20 22:08	
Bromobenzene	ug/L	ND	0.50	10/22/20 22:08	
Bromochloromethane	ug/L	ND	0.50	10/22/20 22:08	
Bromodichloromethane	ug/L	ND	0.50	10/22/20 22:08	
Bromoform	ug/L	ND	0.50	10/22/20 22:08	
Bromomethane	ug/L	ND	5.0	10/22/20 22:08	
Carbon tetrachloride	ug/L	ND	0.50	10/22/20 22:08	
Chlorobenzene	ug/L	ND	0.50	10/22/20 22:08	
Chloroethane	ug/L	ND	1.0	10/22/20 22:08	
Chloroform	ug/L	ND	0.50	10/22/20 22:08	
Chloromethane	ug/L	ND	1.0	10/22/20 22:08	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/22/20 22:08	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/22/20 22:08	
Dibromochloromethane	ug/L	ND	0.50	10/22/20 22:08	
Dibromomethane	ug/L	ND	0.50	10/22/20 22:08	
Dichlorodifluoromethane	ug/L	ND	0.50	10/22/20 22:08	
Diisopropyl ether	ug/L	ND	0.50	10/22/20 22:08	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

METHOD BLANK: 3044512

Matrix: Water

Associated Lab Samples: 92501355001, 92501355002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/22/20 22:08	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/22/20 22:08	
m&p-Xylene	ug/L	ND	1.0	10/22/20 22:08	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/22/20 22:08	
Methylene Chloride	ug/L	ND	2.0	10/22/20 22:08	
n-Butylbenzene	ug/L	ND	0.50	10/22/20 22:08	
n-Propylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Naphthalene	ug/L	ND	2.0	10/22/20 22:08	
o-Xylene	ug/L	ND	0.50	10/22/20 22:08	
sec-Butylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Styrene	ug/L	ND	0.50	10/22/20 22:08	
tert-Butylbenzene	ug/L	ND	0.50	10/22/20 22:08	
Tetrachloroethene	ug/L	ND	0.50	10/22/20 22:08	
Toluene	ug/L	ND	0.50	10/22/20 22:08	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/22/20 22:08	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/22/20 22:08	
Trichloroethene	ug/L	ND	0.50	10/22/20 22:08	
Trichlorofluoromethane	ug/L	ND	1.0	10/22/20 22:08	
Vinyl chloride	ug/L	ND	1.0	10/22/20 22:08	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/22/20 22:08	
4-Bromofluorobenzene (S)	%	95	70-130	10/22/20 22:08	
Toluene-d8 (S)	%	100	70-130	10/22/20 22:08	

LABORATORY CONTROL SAMPLE: 3044513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	49.7	99	60-140	
1,1,1-Trichloroethane	ug/L	50	48.1	96	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	48.9	98	60-140	
1,1,2-Trichloroethane	ug/L	50	49.1	98	60-140	
1,1-Dichloroethane	ug/L	50	47.9	96	60-140	
1,1-Dichloroethene	ug/L	50	51.6	103	60-140	
1,1-Dichloropropene	ug/L	50	47.9	96	60-140	
1,2,3-Trichlorobenzene	ug/L	50	52.2	104	60-140	
1,2,3-Trichloropropane	ug/L	50	48.3	97	60-140	
1,2,4-Trichlorobenzene	ug/L	50	53.1	106	60-140	
1,2,4-Trimethylbenzene	ug/L	50	48.1	96	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.5	111	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	60-140	
1,2-Dichlorobenzene	ug/L	50	50.3	101	60-140	
1,2-Dichloroethane	ug/L	50	42.9	86	60-140	
1,2-Dichloropropane	ug/L	50	49.7	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	49.2	98	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)
Pace Project No.: 92501355

LABORATORY CONTROL SAMPLE: 3044513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	50.1	100	60-140	
1,3-Dichloropropane	ug/L	50	51.2	102	60-140	
1,4-Dichlorobenzene	ug/L	50	49.6	99	60-140	
2,2-Dichloropropane	ug/L	50	47.9	96	60-140	
2-Chlorotoluene	ug/L	50	50.1	100	60-140	
4-Chlorotoluene	ug/L	50	49.9	100	60-140	
Benzene	ug/L	50	47.6	95	60-140	
Bromobenzene	ug/L	50	48.7	97	60-140	
Bromochloromethane	ug/L	50	47.5	95	60-140	
Bromodichloromethane	ug/L	50	47.5	95	60-140	
Bromoform	ug/L	50	47.9	96	60-140	
Bromomethane	ug/L	50	55.6	111	60-140	
Carbon tetrachloride	ug/L	50	47.0	94	60-140	
Chlorobenzene	ug/L	50	48.9	98	60-140	
Chloroethane	ug/L	50	37.4	75	60-140	
Chloroform	ug/L	50	47.6	95	60-140	
Chloromethane	ug/L	50	43.7	87	60-140	
cis-1,2-Dichloroethene	ug/L	50	47.0	94	60-140	
cis-1,3-Dichloropropene	ug/L	50	50.6	101	60-140	
Dibromochloromethane	ug/L	50	52.1	104	60-140	
Dibromomethane	ug/L	50	50.1	100	60-140	
Dichlorodifluoromethane	ug/L	50	42.5	85	60-140	
Diisopropyl ether	ug/L	50	46.6	93	60-140	
Ethylbenzene	ug/L	50	47.7	95	60-140	
Hexachloro-1,3-butadiene	ug/L	50	48.2	96	60-140	
Isopropylbenzene (Cumene)	ug/L	50	49.2	98	60-140	
m&p-Xylene	ug/L	100	96.9	97	60-140	
Methyl-tert-butyl ether	ug/L	50	48.0	96	60-140	
Methylene Chloride	ug/L	50	49.2	98	60-140	
n-Butylbenzene	ug/L	50	50.8	102	60-140	
n-Propylbenzene	ug/L	50	49.5	99	60-140	
Naphthalene	ug/L	50	55.3	111	60-140	
o-Xylene	ug/L	50	49.2	98	60-140	
sec-Butylbenzene	ug/L	50	49.3	99	60-140	
Styrene	ug/L	50	49.4	99	60-140	
tert-Butylbenzene	ug/L	50	42.3	85	60-140	
Tetrachloroethene	ug/L	50	48.2	96	60-140	
Toluene	ug/L	50	47.5	95	60-140	
trans-1,2-Dichloroethene	ug/L	50	48.2	96	60-140	
trans-1,3-Dichloropropene	ug/L	50	49.5	99	60-140	
Trichloroethene	ug/L	50	48.8	98	60-140	
Trichlorofluoromethane	ug/L	50	40.0	80	60-140	
Vinyl chloride	ug/L	50	43.2	86	60-140	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

Parameter	92501238003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	524	538	105	108	60-140	3				
1,1,1-Trichloroethane	ug/L	ND	500	500	525	548	105	110	60-140	4				
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	505	526	101	105	60-140	4				
1,1,2-Trichloroethane	ug/L	ND	500	500	504	530	101	106	60-140	5				
1,1-Dichloroethane	ug/L	ND	500	500	520	536	104	107	60-140	3				
1,1-Dichloroethene	ug/L	ND	500	500	586	591	117	118	60-140	1				
1,1-Dichloropropene	ug/L	ND	500	500	530	549	106	110	60-140	3				
1,2,3-Trichlorobenzene	ug/L	ND	500	500	482	525	96	105	60-140	9				
1,2,3-Trichloropropane	ug/L	ND	500	500	510	520	102	104	60-140	2				
1,2,4-Trichlorobenzene	ug/L	ND	500	500	486	533	97	107	60-140	9				
1,2,4-Trimethylbenzene	ug/L	1380	500	500	1800	1910	85	106	60-140	6				
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	530	560	106	112	60-140	5				
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	531	535	106	107	60-140	1				
1,2-Dichlorobenzene	ug/L	ND	500	500	495	534	99	107	60-140	8				
1,2-Dichloroethane	ug/L	ND	500	500	458	478	92	96	60-140	4				
1,2-Dichloropropane	ug/L	ND	500	500	526	548	105	110	60-140	4				
1,3,5-Trimethylbenzene	ug/L	ND	500	500	840	887	168	177	60-140	5 M1				
1,3-Dichlorobenzene	ug/L	ND	500	500	496	532	99	106	60-140	7				
1,3-Dichloropropane	ug/L	ND	500	500	541	558	108	112	60-140	3				
1,4-Dichlorobenzene	ug/L	ND	500	500	497	527	99	105	60-140	6				
2,2-Dichloropropane	ug/L	ND	500	500	453	451	91	90	60-140	0				
2-Chlorotoluene	ug/L	ND	500	500	563	594	113	119	60-140	5				
4-Chlorotoluene	ug/L	ND	500	500	509	536	102	107	60-140	5				
Benzene	ug/L	194	500	500	713	741	104	109	60-140	4				
Bromobenzene	ug/L	ND	500	500	513	538	103	108	60-140	5				
Bromochloromethane	ug/L	ND	500	500	503	501	101	100	60-140	0				
Bromodichloromethane	ug/L	ND	500	500	494	518	99	104	60-140	5				
Bromoform	ug/L	ND	500	500	470	495	94	99	60-140	5				
Bromomethane	ug/L	ND	500	500	479	636	96	127	60-140	28				
Carbon tetrachloride	ug/L	ND	500	500	518	550	104	110	60-140	6				
Chlorobenzene	ug/L	ND	500	500	521	546	104	109	60-140	5				
Chloroethane	ug/L	ND	500	500	477	498	95	100	60-140	4				
Chloroform	ug/L	ND	500	500	513	546	103	109	60-140	6				
Chloromethane	ug/L	ND	500	500	460	479	92	96	60-140	4				
cis-1,2-Dichloroethene	ug/L	ND	500	500	503	532	101	106	60-140	6				
cis-1,3-Dichloropropene	ug/L	ND	500	500	508	521	102	104	60-140	2				
Dibromochloromethane	ug/L	ND	500	500	515	545	103	109	60-140	6				
Dibromomethane	ug/L	ND	500	500	519	551	104	110	60-140	6				
Dichlorodifluoromethane	ug/L	ND	500	500	459	470	92	94	60-140	2				
Diisopropyl ether	ug/L	ND	500	500	492	508	98	102	60-140	3				
Ethylbenzene	ug/L	1450	500	500	1950	2020	101	115	60-140	4				
Hexachloro-1,3-butadiene	ug/L	ND	500	500	462	511	92	102	60-140	10				
Isopropylbenzene (Cumene)	ug/L	80.4	500	500	609	642	106	112	60-140	5				
m&p-Xylene	ug/L	3010	1000	1000	3970	4110	96	110	60-140	3				
Methyl-tert-butyl ether	ug/L	ND	500	500	503	504	101	101	60-140	0				
Methylene Chloride	ug/L	62.4	500	500	569	565	101	100	60-140	1				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

Parameter	Units	3044514		3044515		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92501238003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
n-Butylbenzene	ug/L	ND	500	500	547	580	109	116	60-140	6		
n-Propylbenzene	ug/L	ND	500	500	724	765	145	153	60-140	6	M1	
Naphthalene	ug/L	818	500	500	1330	1440	102	124	60-140	8		
o-Xylene	ug/L	1480	500	500	1990	2080	102	119	60-140	4		
sec-Butylbenzene	ug/L	ND	500	500	533	570	107	114	60-140	7		
Styrene	ug/L	ND	500	500	529	560	106	112	60-140	6		
tert-Butylbenzene	ug/L	ND	500	500	451	485	90	97	60-140	7		
Tetrachloroethene	ug/L	ND	500	500	524	538	105	108	60-140	3		
Toluene	ug/L	3040	500	500	3450	3580	82	108	60-140	4		
trans-1,2-Dichloroethene	ug/L	ND	500	500	523	551	105	110	60-140	5		
trans-1,3-Dichloropropene	ug/L	ND	500	500	491	514	98	103	60-140	5		
Trichloroethene	ug/L	ND	500	500	529	551	106	110	60-140	4		
Trichlorofluoromethane	ug/L	ND	500	500	476	499	95	100	60-140	5		
Vinyl chloride	ug/L	ND	500	500	476	505	95	101	60-140	6		
1,2-Dichloroethane-d4 (S)	%						101	100	70-130			
4-Bromofluorobenzene (S)	%						99	98	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline ER (10/20)

Pace Project No.: 92501355

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501355001	MW-28	MADEPV	1564672	MADEP VPH	1564672
92501355001	MW-28	EPA 3010A	574575	EPA 6010D	574590
92501355001	MW-28	SM 6200B	575107		
92501355002	Trip Blank	SM 6200B	575107		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2013
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition
Upon Receipt

Client Name:

AECOM

Project #

WO# : 92501355



92501355

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: DW 10/20/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?
 Yes No N/A

Thermometer: 92T061
NIR Gun ID: _____

Type of Ice: Wet Blue None

Cooler Temp (°C): 3.1 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.1

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		1.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		2.
Short Hold Time Analysis (1-2 hrs)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		3.
Rush Turn Around Time Requested?	<u>DW 10/20/20</u> <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		4.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		5.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		6.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		7.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		8.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		10.
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		11.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

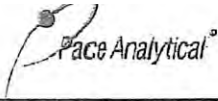
Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project

WO# : 92501355

PM: NMG

Due Date: 10/27/20

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92-AECOM CHA

**Bottom half of box is to list number of bottle

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-503s kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																7													
2																2													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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).



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Section B

Section C

Required Client Information:
 Company: AEOM
 Address: 6000 Fairview Road
 Suite 200, Charlotte, NC 28226
 Phone: (704)522-0330 Fax
 Email:
 Requested Due Date:
Required Project Information:
 Report To: Andrew Wreschning
 Copy To:
 Purchase Order #:
 Project Name: Colonial Pipeline Emergency Response
 Project #:
Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: nicole.gastrowski@pacelabs.com,
 Pace Profile #: 12518
Regulatory Agency
 State / Location
 NC

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9/, -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Semi/Solid Oil Wipe Air Other Tissue	CODE DW WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Preservatives		Analyses Test 6200 VPH 6010 Lead Trip BLANK	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	TEMP in C	
						START DATE TIME	END DATE TIME					Y/N	Y/N					
1	MM-28			MG	G			10/20	0930		8			XX				
2	TIP BLANK																	
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

ADDITIONAL COMMENTS:
 RELINQUISHED BY / AFFILIATION: Emily D. Fore / AEOM
 DATE: 10/20/20
 TIME: 1600
 ACCEPTED BY / AFFILIATION: M. De la Cruz
 DATE: 10/20/20
 TIME: 1600
 SAMPLE CONDITIONS: Y N Y
SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Emily Love
 SIGNATURE of SAMPLER: *Emily Love*
 DATE Signed: 10/20/2020

October 27, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501615

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501615

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #: 100789

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501615001	MW-51	MADEP VPH	ADM, DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501615002	DUP-1-20201021	MADEP VPH	JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501615003	Trip Blank	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

Sample: MW-51	Lab ID: 92501615001	Collected: 10/21/20 09:30	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 16:25	10/24/20 16:25		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 05:08	10/24/20 05:08		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 05:08	10/24/20 05:08	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/24/20 05:08	10/24/20 05:08	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	96.6	%	70.0-130	1	10/24/20 05:08	10/24/20 05:08	615-59-8FID	
2,5-Dibromotoluene (FID)	96.6	%	70.0-130	1	10/24/20 16:25	10/24/20 16:25	615-59-8FID	
2,5-Dibromotoluene (PID)	103	%	70.0-130	1	10/24/20 05:08	10/24/20 05:08	615-59-8PID	
2,5-Dibromotoluene (PID)	101	%	70.0-130	1	10/24/20 16:25	10/24/20 16:25	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	5.1	ug/L	5.0	1	10/24/20 02:35	10/26/20 13:57	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	0.52	ug/L	0.50	1		10/23/20 19:35	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 19:35	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 19:35	74-97-5	
Bromodichloromethane	0.95	ug/L	0.50	1		10/23/20 19:35	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 19:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 19:35	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 19:35	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 19:35	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 19:35	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 19:35	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 19:35	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 19:35	75-00-3	
Chloroform	13.4	ug/L	0.50	1		10/23/20 19:35	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 19:35	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 19:35	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 19:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 19:35	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 19:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 19:35	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 19:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 19:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 19:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 19:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 19:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 19:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 19:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 19:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 19:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 19:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 19:35	78-87-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

Sample: MW-51	Lab ID: 92501615001	Collected: 10/21/20 09:30	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 19:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 19:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 19:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 19:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 19:35	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 19:35	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 19:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 19:35	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 19:35	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 19:35	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 19:35	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 19:35	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 19:35	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 19:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 19:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 19:35	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 19:35	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 19:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 19:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 19:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 19:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 19:35	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 19:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 19:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 19:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 19:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 19:35	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 19:35	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 19:35	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 19:35	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/23/20 19:35	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/23/20 19:35	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 19:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

Sample: DUP-1-20201021	Lab ID: 92501615002	Collected: 10/21/20 00:00	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/26/20 14:32	10/26/20 14:32		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/26/20 14:32	10/26/20 14:32		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/26/20 14:32	10/26/20 14:32	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/26/20 14:32	10/26/20 14:32	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.8	%	70.0-130	1	10/26/20 14:32	10/26/20 14:32	615-59-8FID	
2,5-Dibromotoluene (PID)	85.1	%	70.0-130	1	10/26/20 14:32	10/26/20 14:32	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:10	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	0.50	ug/L	0.50	1		10/23/20 19:53	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 19:53	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 19:53	74-97-5	
Bromodichloromethane	0.92	ug/L	0.50	1		10/23/20 19:53	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 19:53	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 19:53	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 19:53	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 19:53	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 19:53	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 19:53	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 19:53	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 19:53	75-00-3	
Chloroform	13.0	ug/L	0.50	1		10/23/20 19:53	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 19:53	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 19:53	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 19:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 19:53	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 19:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 19:53	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 19:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 19:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 19:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 19:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 19:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 19:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 19:53	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 19:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 19:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 19:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 19:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 19:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 19:53	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

Sample: DUP-1-20201021	Lab ID: 92501615002	Collected: 10/21/20 00:00	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 19:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 19:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 19:53	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 19:53	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 19:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 19:53	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 19:53	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 19:53	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 19:53	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 19:53	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 19:53	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 19:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 19:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 19:53	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 19:53	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 19:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 19:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 19:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 19:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 19:53	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 19:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 19:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 19:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 19:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 19:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 19:53	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 19:53	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 19:53	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		10/23/20 19:53	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/23/20 19:53	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/23/20 19:53	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

Sample: Trip Blank		Lab ID: 92501615003	Collected: 10/21/20 00:00	Received: 10/21/20 17:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/23/20 15:25	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 15:25	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 15:25	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 15:25	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 15:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 15:25	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 15:25	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 15:25	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 15:25	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 15:25	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 15:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 15:25	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 15:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 15:25	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 15:25	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 15:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 15:25	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 15:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 15:25	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 15:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 15:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 15:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 15:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 15:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 15:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 15:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 15:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 15:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 15:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 15:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 15:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 15:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 15:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 15:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 15:25	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 15:25	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 15:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 15:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 15:25	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 15:25	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 15:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 15:25	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 15:25	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 15:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 15:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 15:25	79-34-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

Sample: Trip Blank		Lab ID: 92501615003	Collected: 10/21/20 00:00	Received: 10/21/20 17:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 15:25	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 15:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 15:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 15:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 15:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 15:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 15:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 15:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 15:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 15:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 15:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 15:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 15:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 15:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/23/20 15:25	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/23/20 15:25	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/23/20 15:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

QC Batch: 1564672	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501615001

METHOD BLANK: R3585156-2 Matrix: Water

Associated Lab Samples: 92501615001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C09-C12)	ug/L	ND	100	10/23/20 15:53	
Aromatic (C09-C10), Unadjusted	ug/L	ND	100	10/23/20 15:53	
Total VPH	ug/L	ND	100	10/23/20 15:53	
2,5-Dibromotoluene (FID)	%	82.7	70.0-130	10/23/20 15:53	
2,5-Dibromotoluene (PID)	%	89.2	70.0-130	10/23/20 15:53	

LABORATORY CONTROL SAMPLE & LCSD: R3585156-1 R3585156-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C09-C12)	ug/L	1400	1350	1380	96.4	98.6	70.0-130	2.20	25	
Aromatic (C09-C10), Unadjusted	ug/L	200	259	210	130	105	70.0-130	20.9	25	
Total VPH	ug/L	2800	2550	2540	91.1	90.7	70.0-130	0.393	25	
2,5-Dibromotoluene (FID)	%				95.6	90.3	70.0-130			
2,5-Dibromotoluene (PID)	%				106	96.5	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

QC Batch: 1564888	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501615001

METHOD BLANK: R3585246-2 Matrix: Water

Associated Lab Samples: 92501615001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/24/20 14:10	
2,5-Dibromotoluene (FID)	%	90.1	70.0-130	10/24/20 14:10	
2,5-Dibromotoluene (PID)	%	95.5	70.0-130	10/24/20 14:10	

LABORATORY CONTROL SAMPLE & LCSD: R3585246-1 R3585246-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	973	985	81.1	82.1	70.0-130	1.23	25	
2,5-Dibromotoluene (FID)	%				93.0	99.7	70.0-130			
2,5-Dibromotoluene (PID)	%				103	104	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

QC Batch: 1565284	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501615002

METHOD BLANK: R3585993-3 Matrix: Water

Associated Lab Samples: 92501615002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/26/20 13:48	
Aliphatic (C09-C12)	ug/L	ND	100	10/26/20 13:48	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/26/20 13:48	
Total VPH	ug/L	ND	100	10/26/20 13:48	
2,5-Dibromotoluene (FID)	%	87.3	70.0-130	10/26/20 13:48	
2,5-Dibromotoluene (PID)	%	81.8	70.0-130	10/26/20 13:48	

LABORATORY CONTROL SAMPLE & LCSD: R3585993-1 R3585993-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1270	1130	106	94.2	70.0-130	11.7	25	
Aliphatic (C09-C12)	ug/L	1400	1530	1360	109	97.1	70.0-130	11.8	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	206	183	103	91.5	70.0-130	11.8	25	
Total VPH	ug/L	2800	3010	2670	108	95.4	70.0-130	12.0	25	
2,5-Dibromotoluene (FID)	%				87.2	86.6	70.0-130			
2,5-Dibromotoluene (PID)	%				84.7	84.1	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

QC Batch: 575518	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501615001, 92501615002

METHOD BLANK: 3046797 Matrix: Water

Associated Lab Samples: 92501615001, 92501615002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/26/20 13:50	

LABORATORY CONTROL SAMPLE: 3046798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	468	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3046799 3046800

Parameter	Units	92501615001		3046800		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	5.1	500	500	500	503	99	100	75-125	1

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

QC Batch: 575350

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501615001, 92501615002, 92501615003

METHOD BLANK: 3045558

Matrix: Water

Associated Lab Samples: 92501615001, 92501615002, 92501615003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 11:14	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 11:14	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 11:14	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 11:14	
Benzene	ug/L	ND	0.50	10/23/20 11:14	
Bromobenzene	ug/L	ND	0.50	10/23/20 11:14	
Bromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 11:14	
Bromoform	ug/L	ND	0.50	10/23/20 11:14	
Bromomethane	ug/L	ND	5.0	10/23/20 11:14	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 11:14	
Chlorobenzene	ug/L	ND	0.50	10/23/20 11:14	
Chloroethane	ug/L	ND	1.0	10/23/20 11:14	
Chloroform	ug/L	ND	0.50	10/23/20 11:14	
Chloromethane	ug/L	ND	1.0	10/23/20 11:14	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 11:14	
Dibromomethane	ug/L	ND	0.50	10/23/20 11:14	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 11:14	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 11:14	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

METHOD BLANK: 3045558

Matrix: Water

Associated Lab Samples: 92501615001, 92501615002, 92501615003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 11:14	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 11:14	
m&p-Xylene	ug/L	ND	1.0	10/23/20 11:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 11:14	
Methylene Chloride	ug/L	ND	2.0	10/23/20 11:14	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Naphthalene	ug/L	ND	2.0	10/23/20 11:14	
o-Xylene	ug/L	ND	0.50	10/23/20 11:14	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Styrene	ug/L	ND	0.50	10/23/20 11:14	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 11:14	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 11:14	
Toluene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 11:14	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 11:14	
Trichloroethene	ug/L	ND	0.50	10/23/20 11:14	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 11:14	
Vinyl chloride	ug/L	ND	1.0	10/23/20 11:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/23/20 11:14	
4-Bromofluorobenzene (S)	%	95	70-130	10/23/20 11:14	
Toluene-d8 (S)	%	101	70-130	10/23/20 11:14	

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	51.6	103	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	53.5	107	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	50.6	101	60-140	
1,1-Dichloroethene	ug/L	50	53.4	107	60-140	
1,1-Dichloropropene	ug/L	50	51.1	102	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.9	116	60-140	
1,2,3-Trichloropropane	ug/L	50	53.2	106	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.8	118	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.8	106	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	60.9	122	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	60-140	
1,2-Dichlorobenzene	ug/L	50	54.4	109	60-140	
1,2-Dichloroethane	ug/L	50	45.3	91	60-140	
1,2-Dichloropropane	ug/L	50	51.8	104	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.4	107	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501615

LABORATORY CONTROL SAMPLE: 3045559

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	54.6	109	60-140	
1,3-Dichloropropane	ug/L	50	54.8	110	60-140	
1,4-Dichlorobenzene	ug/L	50	53.8	108	60-140	
2,2-Dichloropropane	ug/L	50	51.6	103	60-140	
2-Chlorotoluene	ug/L	50	53.9	108	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	52.6	105	60-140	
Bromochloromethane	ug/L	50	50.0	100	60-140	
Bromodichloromethane	ug/L	50	50.2	100	60-140	
Bromoform	ug/L	50	52.8	106	60-140	
Bromomethane	ug/L	50	64.7	129	60-140	
Carbon tetrachloride	ug/L	50	50.2	100	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	48.9	98	60-140	
Chloromethane	ug/L	50	45.9	92	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	60-140	
Dibromochloromethane	ug/L	50	56.0	112	60-140	
Dibromomethane	ug/L	50	52.6	105	60-140	
Dichlorodifluoromethane	ug/L	50	48.4	97	60-140	
Diisopropyl ether	ug/L	50	48.9	98	60-140	
Ethylbenzene	ug/L	50	51.7	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	55.0	110	60-140	
Isopropylbenzene (Cumene)	ug/L	50	53.9	108	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.6	101	60-140	
Methylene Chloride	ug/L	50	49.7	99	60-140	
n-Butylbenzene	ug/L	50	57.1	114	60-140	
n-Propylbenzene	ug/L	50	54.0	108	60-140	
Naphthalene	ug/L	50	60.6	121	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	53.7	107	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.3	93	60-140	
Tetrachloroethene	ug/L	50	51.8	104	60-140	
Toluene	ug/L	50	50.1	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	51.0	102	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	51.5	103	60-140	
Trichlorofluoromethane	ug/L	50	42.6	85	60-140	
Vinyl chloride	ug/L	50	46.4	93	60-140	
1,2-Dichloroethane-d4 (S)	%			107	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

Parameter	92500481001		MS	MSD	3045560		3045561		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0			
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.9	109	109	60-140	1			
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.8	20.7	104	103	60-140	0			
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	60-140	2			
1,1-Dichloroethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	123	60-140	1			
1,1-Dichloropropene	ug/L	ND	20	20	21.6	22.0	108	110	60-140	2			
1,2,3-Trichlorobenzene	ug/L	ND	20	20	26.4	23.1	132	115	60-140	13			
1,2,3-Trichloropropane	ug/L	ND	20	20	21.2	19.9	106	99	60-140	7			
1,2,4-Trichlorobenzene	ug/L	ND	20	20	26.2	23.7	131	119	60-140	10			
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.6	21.6	113	108	60-140	4			
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.4	23.6	122	118	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2			
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	21.3	113	107	60-140	6			
1,2-Dichloroethane	ug/L	ND	20	20	19.1	18.9	96	94	60-140	1			
1,2-Dichloropropane	ug/L	ND	20	20	21.3	21.7	106	108	60-140	2			
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.2	22.0	116	110	60-140	5			
1,3-Dichlorobenzene	ug/L	ND	20	20	22.5	21.4	113	107	60-140	5			
1,3-Dichloropropane	ug/L	ND	20	20	21.1	21.4	105	107	60-140	1			
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	21.3	113	107	60-140	5			
2,2-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1			
2-Chlorotoluene	ug/L	ND	20	20	22.9	21.9	115	110	60-140	4			
4-Chlorotoluene	ug/L	ND	20	20	21.9	21.0	109	105	60-140	4			
Benzene	ug/L	0.0031 mg/L	20	20	23.8	24.6	103	107	60-140	3			
Bromobenzene	ug/L	ND	20	20	22.1	21.0	110	105	60-140	5			
Bromochloromethane	ug/L	ND	20	20	20.4	20.4	102	102	60-140	0			
Bromodichloromethane	ug/L	ND	20	20	20.7	20.8	103	104	60-140	1			
Bromoform	ug/L	ND	20	20	20.3	20.1	101	100	60-140	1			
Bromomethane	ug/L	ND	20	20	26.4	27.0	132	135	60-140	2			
Carbon tetrachloride	ug/L	ND	20	20	21.8	22.1	109	111	60-140	2			
Chlorobenzene	ug/L	ND	20	20	21.5	21.4	108	107	60-140	0			
Chloroethane	ug/L	ND	20	20	19.7	19.4	99	97	60-140	2			
Chloroform	ug/L	ND	20	20	21.1	21.1	106	105	60-140	0			
Chloromethane	ug/L	ND	20	20	20.5	20.1	103	100	60-140	2			
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.7	105	104	60-140	1			
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.2	21.8	106	109	60-140	3			
Dibromochloromethane	ug/L	ND	20	20	22.0	22.4	110	112	60-140	2			
Dibromomethane	ug/L	ND	20	20	21.6	21.7	108	108	60-140	0			
Dichlorodifluoromethane	ug/L	ND	20	20	19.9	19.7	100	98	60-140	1			
Diisopropyl ether	ug/L	0.0058 mg/L	20	20	26.5	26.5	104	103	60-140	0			
Ethylbenzene	ug/L	0.00058 mg/L	20	20	21.8	21.8	106	106	60-140	0			
Hexachloro-1,3-butadiene	ug/L	ND	20	20	27.4	24.7	137	124	60-140	10			
Isopropylbenzene (Cumene)	ug/L	0.0045 mg/L	20	20	27.0	26.7	113	111	60-140	1			

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

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501615

Parameter	92500481001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
m&p-Xylene	ug/L	0.0023 mg/L	40	40	45.2	45.5	107	108	60-140	1				
Methyl-tert-butyl ether	ug/L	0.0023 mg/L	20	20	22.2	22.7	99	102	60-140	2				
Methylene Chloride	ug/L	ND	20	20	20.8	20.7	104	103	60-140	1				
n-Butylbenzene	ug/L	ND	20	20	32.7	31.2	164	156	60-140	5 M1				
n-Propylbenzene	ug/L	0.013 mg/L	20	20	35.9	34.6	115	108	60-140	4				
Naphthalene	ug/L	0.0058 mg/L	20	20	30.3	28.5	123	114	60-140	6				
o-Xylene	ug/L	ND	20	20	21.9	21.9	107	107	60-140	0				
sec-Butylbenzene	ug/L	0.0042 mg/L	20	20	28.1	27.0	119	114	60-140	4				
Styrene	ug/L	ND	20	20	21.4	21.3	107	107	60-140	0				
tert-Butylbenzene	ug/L	ND	20	20	20.3	19.4	102	97	60-140	5				
Tetrachloroethene	ug/L	ND	20	20	21.8	21.7	109	108	60-140	0				
Toluene	ug/L	0.00058 mg/L	20	20	21.0	21.6	102	105	60-140	3				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.0	111	110	60-140	1				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.8	21.4	104	107	60-140	3				
Trichloroethene	ug/L	ND	20	20	21.5	21.4	107	107	60-140	0				
Trichlorofluoromethane	ug/L	ND	20	20	20.7	20.3	103	102	60-140	2				
Vinyl chloride	ug/L	ND	20	20	20.0	20.4	100	102	60-140	2				
1,2-Dichloroethane-d4 (S)	%						104	104	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						97	99	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501615

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501615001	MW-51	MADEPV	1564672	MADEP VPH	1564672
92501615001	MW-51	MADEPV	1564888	MADEP VPH	1564888
92501615002	DUP-1-20201021	MADEPV	1565284	MADEP VPH	1565284
92501615001	MW-51	EPA 3010A	575518	EPA 6010D	575529
92501615002	DUP-1-20201021	EPA 3010A	575518	EPA 6010D	575529
92501615001	MW-51	SM 6200B	575350		
92501615002	DUP-1-20201021	SM 6200B	575350		
92501615003	Trip Blank	SM 6200B	575350		

REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition
Upon Receipt

Client Name:
AELCOM

Project #: **WO# : 92501615**



Courier: Commercial Fed Ex Pace UPS USPS Client Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 10/22/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 92T061 Type of Ice: Wet Blue None

Cooler Temp (°C): 3.3 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.3

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>WV</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: NMG

Date: 10/22/20

Project Manager SRF Review: NMG

Date: 10/22/20



Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project #

WO# : 92501615

PM: NMG

Due Date: 10/28/20

CLIENT : 92-RECOM CHA

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 Kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1																7														
2																7														
3																2														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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).

October 27, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501616

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on October 21, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501616

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501616

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501616001	MW-1	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616002	MW-2	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616003	MW-4	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616004	MW-5	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616005	MW-6	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616006	MW-9	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616007	MW-12	MADEP VPH	DWR, JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616008	MW-15	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616009	MW-30	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616010	MW-35	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616011	MW-36	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616012	MW-37	MADEP VPH	DWR	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501616013	MW-59	MADEP VPH	DWR, JAH	6	PAN

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501616014	FB-01-20201021	EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
		MADEP VPH	DWR, JAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
92501616015	TRIP BLANK	SM 6200B	SAS	63	PASI-C
		SM 6200B	SAS	63	PASI-C
92501616016	TRIP BLANK	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-1	Lab ID: 92501616001	Collected: 10/21/20 15:10	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 18:04	10/24/20 18:04		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 18:04	10/24/20 18:04		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 18:04	10/24/20 18:04	TPHC9C10A L0	
Total VPH	ND	ug/L	100	1	10/24/20 18:04	10/24/20 18:04	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.3	%	70.0-130	1	10/24/20 18:04	10/24/20 18:04	615-59-8FID	
2,5-Dibromotoluene (PID)	103	%	70.0-130	1	10/24/20 18:04	10/24/20 18:04	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	50.8	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:13	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/24/20 00:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 00:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 00:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 00:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 00:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 00:21	74-83-9	M1
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 00:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 00:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 00:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 00:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 00:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 00:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 00:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 00:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 00:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 00:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 00:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 00:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 00:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 00:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:21	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-1	Lab ID: 92501616001	Collected: 10/21/20 15:10	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:21	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 00:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 00:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 00:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 00:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 00:21	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 00:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 00:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 00:21	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 00:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 00:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 00:21	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 00:21	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 00:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 00:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 00:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 00:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 00:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 00:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 00:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 00:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 00:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 00:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 00:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 00:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 00:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/24/20 00:21	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/24/20 00:21	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/24/20 00:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-2	Lab ID: 92501616002	Collected: 10/21/20 10:40	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 18:37	10/24/20 18:37		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 18:37	10/24/20 18:37		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 18:37	10/24/20 18:37	TPHC9C10A L0	
Total VPH	ND	ug/L	100	1	10/24/20 18:37	10/24/20 18:37	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.2	%	70.0-130	1	10/24/20 18:37	10/24/20 18:37	615-59-8FID	
2,5-Dibromotoluene (PID)	96.1	%	70.0-130	1	10/24/20 18:37	10/24/20 18:37	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	19.2	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:30	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/24/20 00:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 00:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 00:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 00:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 00:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 00:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 00:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 00:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 00:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 00:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 00:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 00:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 00:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 00:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 00:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 00:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 00:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 00:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 00:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 00:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:39	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-2	Lab ID: 92501616002	Collected: 10/21/20 10:40	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 00:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 00:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 00:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 00:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 00:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 00:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 00:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 00:39	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 00:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 00:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 00:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 00:39	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 00:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 00:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 00:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 00:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 00:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 00:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 00:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 00:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 00:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 00:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 00:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 00:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 00:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/24/20 00:39	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/24/20 00:39	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/24/20 00:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-4	Lab ID: 92501616003	Collected: 10/21/20 09:35	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 19:10	10/24/20 19:10		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 19:10	10/24/20 19:10		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 19:10	10/24/20 19:10	TPHC9C10A L0	
Total VPH	ND	ug/L	100	1	10/24/20 19:10	10/24/20 19:10	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.5	%	70.0-130	1	10/24/20 19:10	10/24/20 19:10	615-59-8FID	
2,5-Dibromotoluene (PID)	101	%	70.0-130	1	10/24/20 19:10	10/24/20 19:10	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	19.4	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:33	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/24/20 00:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 00:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 00:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 00:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 00:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 00:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 00:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 00:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 00:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 00:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 00:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 00:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 00:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 00:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 00:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 00:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 00:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 00:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 00:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 00:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:57	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-4	Lab ID: 92501616003	Collected: 10/21/20 09:35	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 00:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 00:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 00:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 00:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 00:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 00:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 00:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 00:57	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 00:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 00:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 00:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 00:57	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 00:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 00:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 00:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 00:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 00:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 00:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 00:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 00:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 00:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 00:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 00:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 00:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 00:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/24/20 00:57	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/24/20 00:57	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/24/20 00:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-5 **Lab ID: 92501616004** Collected: 10/21/20 14:40 Received: 10/21/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 19:44	10/24/20 19:44		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 19:44	10/24/20 19:44		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 19:44	10/24/20 19:44	TPHC9C10A	L0
Total VPH	ND	ug/L	100	1	10/24/20 19:44	10/24/20 19:44	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.1	%	70.0-130	1	10/24/20 19:44	10/24/20 19:44	615-59-8FID	
2,5-Dibromotoluene (PID)	103	%	70.0-130	1	10/24/20 19:44	10/24/20 19:44	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	19.6	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:36	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		10/24/20 01:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 01:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 01:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 01:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 01:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 01:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 01:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 01:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 01:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 01:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 01:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 01:15	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 01:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 01:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 01:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 01:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 01:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 01:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 01:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 01:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 01:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 01:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 01:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 01:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 01:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 01:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 01:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 01:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 01:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 01:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 01:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 01:15	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-5	Lab ID: 92501616004	Collected: 10/21/20 14:40	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 01:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 01:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 01:15	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 01:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 01:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 01:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 01:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 01:15	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 01:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 01:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 01:15	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 01:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 01:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 01:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 01:15	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 01:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 01:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 01:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 01:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 01:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 01:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 01:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 01:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 01:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 01:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 01:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 01:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 01:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/24/20 01:15	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/24/20 01:15	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/24/20 01:15	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-6	Lab ID: 92501616005	Collected: 10/21/20 11:48	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 20:17	10/24/20 20:17		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 20:17	10/24/20 20:17		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 20:17	10/24/20 20:17	TPHC9C10A L0	
Total VPH	ND	ug/L	100	1	10/24/20 20:17	10/24/20 20:17	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.4	%	70.0-130	1	10/24/20 20:17	10/24/20 20:17	615-59-8FID	
2,5-Dibromotoluene (PID)	99.4	%	70.0-130	1	10/24/20 20:17	10/24/20 20:17	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	33.8	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:39	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/24/20 01:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 01:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 01:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 01:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 01:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 01:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 01:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 01:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 01:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 01:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 01:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 01:33	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 01:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 01:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 01:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 01:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 01:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 01:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 01:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 01:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 01:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 01:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 01:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 01:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 01:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 01:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 01:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 01:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 01:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 01:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 01:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 01:33	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-6	Lab ID: 92501616005	Collected: 10/21/20 11:48	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 01:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 01:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 01:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 01:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 01:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 01:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 01:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 01:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 01:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 01:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 01:33	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 01:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 01:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 01:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 01:33	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 01:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 01:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 01:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 01:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 01:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 01:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 01:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 01:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 01:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 01:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 01:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 01:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 01:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/24/20 01:33	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/24/20 01:33	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/24/20 01:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-9 **Lab ID: 92501616006** Collected: 10/21/20 15:00 Received: 10/21/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 20:50	10/24/20 20:50		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 20:50	10/24/20 20:50		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 20:50	10/24/20 20:50	TPHC9C10A	L0
Total VPH	ND	ug/L	100	1	10/24/20 20:50	10/24/20 20:50	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.0	%	70.0-130	1	10/24/20 20:50	10/24/20 20:50	615-59-8FID	
2,5-Dibromotoluene (PID)	98.0	%	70.0-130	1	10/24/20 20:50	10/24/20 20:50	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:43	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		10/24/20 01:51	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 01:51	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 01:51	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 01:51	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 01:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 01:51	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 01:51	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 01:51	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 01:51	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 01:51	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 01:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 01:51	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 01:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 01:51	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 01:51	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 01:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 01:51	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 01:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 01:51	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 01:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 01:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 01:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 01:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 01:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 01:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 01:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 01:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 01:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 01:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 01:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 01:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 01:51	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-9	Lab ID: 92501616006	Collected: 10/21/20 15:00	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 01:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 01:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 01:51	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 01:51	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 01:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 01:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 01:51	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 01:51	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 01:51	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 01:51	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 01:51	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 01:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 01:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 01:51	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 01:51	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 01:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 01:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 01:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 01:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 01:51	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 01:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 01:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 01:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 01:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 01:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 01:51	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 01:51	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 01:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/24/20 01:51	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/24/20 01:51	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/24/20 01:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-12	Lab ID: 92501616007	Collected: 10/21/20 10:50	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 21:23	10/24/20 21:23		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 21:23	10/24/20 21:23		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/25/20 13:55	10/25/20 13:55	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/24/20 21:23	10/24/20 21:23	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.0	%	70.0-130	1	10/24/20 21:23	10/24/20 21:23	615-59-8FID	
2,5-Dibromotoluene (FID)	89.4	%	70.0-130	1	10/25/20 13:55	10/25/20 13:55	615-59-8FID	
2,5-Dibromotoluene (PID)	99.7	%	70.0-130	1	10/24/20 21:23	10/24/20 21:23	615-59-8PID	
2,5-Dibromotoluene (PID)	83.2	%	70.0-130	1	10/25/20 13:55	10/25/20 13:55	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:46	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/24/20 02:09	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 02:09	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 02:09	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 02:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 02:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 02:09	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 02:09	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 02:09	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 02:09	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 02:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 02:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 02:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 02:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 02:09	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 02:09	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 02:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 02:09	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 02:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 02:09	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 02:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 02:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 02:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 02:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 02:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 02:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 02:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 02:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 02:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 02:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 02:09	78-87-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-12	Lab ID: 92501616007	Collected: 10/21/20 10:50	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 02:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 02:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 02:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 02:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 02:09	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 02:09	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 02:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 02:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 02:09	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 02:09	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 02:09	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 02:09	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 02:09	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 02:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 02:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 02:09	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 02:09	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 02:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 02:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 02:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 02:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 02:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 02:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 02:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 02:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 02:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 02:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 02:09	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 02:09	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 02:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/24/20 02:09	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/24/20 02:09	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/24/20 02:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-15 **Lab ID: 92501616008** Collected: 10/21/20 12:00 Received: 10/21/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 21:56	10/24/20 21:56		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 21:56	10/24/20 21:56		
Aromatic (C09-C10), Unadjusted	ND	ug/L	100	1	10/24/20 21:56	10/24/20 21:56	TPHC9C10A L0	
Total VPH	ND	ug/L	100	1	10/24/20 21:56	10/24/20 21:56	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.8	%	70.0-130	1	10/24/20 21:56	10/24/20 21:56	615-59-8FID	
2,5-Dibromotoluene (PID)	98.4	%	70.0-130	1	10/24/20 21:56	10/24/20 21:56	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	10.4	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:49	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		10/24/20 02:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 02:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 02:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 02:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 02:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 02:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 02:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 02:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 02:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 02:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 02:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 02:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 02:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 02:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 02:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 02:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 02:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 02:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 02:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 02:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 02:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 02:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 02:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 02:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 02:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 02:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 02:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 02:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 02:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 02:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 02:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 02:27	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-15	Lab ID: 92501616008	Collected: 10/21/20 12:00	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 02:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 02:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 02:27	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 02:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 02:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 02:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 02:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 02:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 02:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 02:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 02:27	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 02:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 02:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 02:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 02:27	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 02:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 02:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 02:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 02:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 02:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 02:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 02:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 02:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 02:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 02:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 02:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 02:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 02:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/24/20 02:27	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		10/24/20 02:27	460-00-4	
Toluene-d8 (S)	102	%	70-130	1		10/24/20 02:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-30	Lab ID: 92501616009	Collected: 10/21/20 15:33	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 22:29	10/24/20 22:29		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 22:29	10/24/20 22:29		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 22:29	10/24/20 22:29	TPHC9C10A L0	
Total VPH	ND	ug/L	100	1	10/24/20 22:29	10/24/20 22:29	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	94.0	%	70.0-130	1	10/24/20 22:29	10/24/20 22:29	615-59-8FID	
2,5-Dibromotoluene (PID)	98.5	%	70.0-130	1	10/24/20 22:29	10/24/20 22:29	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:52	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/24/20 02:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 02:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 02:45	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 02:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 02:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 02:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 02:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 02:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 02:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 02:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 02:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 02:45	75-00-3	
Chloroform	0.58	ug/L	0.50	1		10/24/20 02:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 02:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 02:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 02:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 02:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 02:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 02:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 02:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 02:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 02:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 02:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 02:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 02:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 02:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 02:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 02:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 02:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 02:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 02:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 02:45	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-30	Lab ID: 92501616009	Collected: 10/21/20 15:33	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 02:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 02:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 02:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 02:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 02:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 02:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 02:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 02:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 02:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 02:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 02:45	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 02:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 02:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 02:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 02:45	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 02:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 02:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 02:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 02:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 02:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 02:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 02:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 02:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 02:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 02:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 02:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 02:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 02:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/24/20 02:45	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/24/20 02:45	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/24/20 02:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-35	Lab ID: 92501616010	Collected: 10/21/20 10:55	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 23:03	10/24/20 23:03		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 23:03	10/24/20 23:03		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 23:03	10/24/20 23:03	TPHC9C10A L0	
Total VPH	ND	ug/L	100	1	10/24/20 23:03	10/24/20 23:03	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.4	%	70.0-130	1	10/24/20 23:03	10/24/20 23:03	615-59-8FID	
2,5-Dibromotoluene (PID)	100	%	70.0-130	1	10/24/20 23:03	10/24/20 23:03	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	9.1	ug/L	5.0	1	10/24/20 02:35	10/26/20 14:56	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/24/20 03:02	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 03:02	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 03:02	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 03:02	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 03:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 03:02	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:02	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:02	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:02	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 03:02	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 03:02	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 03:02	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 03:02	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 03:02	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 03:02	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 03:02	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 03:02	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 03:02	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 03:02	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 03:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:02	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 03:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 03:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 03:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:02	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:02	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:02	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-35	Lab ID: 92501616010	Collected: 10/21/20 10:55	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:02	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:02	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 03:02	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 03:02	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 03:02	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 03:02	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 03:02	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 03:02	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 03:02	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 03:02	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 03:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 03:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 03:02	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 03:02	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 03:02	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 03:02	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 03:02	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 03:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 03:02	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 03:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 03:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 03:02	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 03:02	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 03:02	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 03:02	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 03:02	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 03:02	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/24/20 03:02	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/24/20 03:02	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/24/20 03:02	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-36	Lab ID: 92501616011	Collected: 10/21/20 11:55	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/24/20 23:36	10/24/20 23:36		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/24/20 23:36	10/24/20 23:36		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/24/20 23:36	10/24/20 23:36	TPHC9C10A L0	
Total VPH	ND	ug/L	100	1	10/24/20 23:36	10/24/20 23:36	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.1	%	70.0-130	1	10/24/20 23:36	10/24/20 23:36	615-59-8FID	
2,5-Dibromotoluene (PID)	98.8	%	70.0-130	1	10/24/20 23:36	10/24/20 23:36	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/24/20 02:35	10/26/20 15:18	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/24/20 03:20	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 03:20	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 03:20	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 03:20	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 03:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 03:20	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:20	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:20	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:20	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 03:20	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 03:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 03:20	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 03:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 03:20	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 03:20	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 03:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 03:20	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 03:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 03:20	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 03:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 03:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 03:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 03:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:20	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-36	Lab ID: 92501616011	Collected: 10/21/20 11:55	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:20	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 03:20	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 03:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 03:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 03:20	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 03:20	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 03:20	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 03:20	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 03:20	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 03:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 03:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 03:20	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 03:20	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 03:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 03:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 03:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 03:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 03:20	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 03:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 03:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 03:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 03:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 03:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 03:20	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 03:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 03:20	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/24/20 03:20	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/24/20 03:20	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/24/20 03:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-37 **Lab ID: 92501616012** Collected: 10/21/20 13:55 Received: 10/21/20 17:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	10/25/20 00:09	10/25/20 00:09		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/25/20 00:09	10/25/20 00:09		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/25/20 00:09	10/25/20 00:09	TPHC9C10A	L0
Total VPH	ND	ug/L	100	1	10/25/20 00:09	10/25/20 00:09	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.8	%	70.0-130	1	10/25/20 00:09	10/25/20 00:09	615-59-8FID	
2,5-Dibromotoluene (PID)	100	%	70.0-130	1	10/25/20 00:09	10/25/20 00:09	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	10/24/20 02:35	10/26/20 15:22	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		10/24/20 03:38	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 03:38	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 03:38	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 03:38	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 03:38	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 03:38	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:38	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:38	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:38	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 03:38	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 03:38	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 03:38	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 03:38	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 03:38	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 03:38	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 03:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 03:38	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 03:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 03:38	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 03:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 03:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 03:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 03:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:38	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-37	Lab ID: 92501616012	Collected: 10/21/20 13:55	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:38	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 03:38	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 03:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 03:38	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 03:38	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 03:38	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 03:38	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 03:38	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 03:38	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 03:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 03:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 03:38	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 03:38	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 03:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 03:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 03:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 03:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 03:38	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 03:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 03:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 03:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 03:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 03:38	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 03:38	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 03:38	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 03:38	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/24/20 03:38	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/24/20 03:38	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/24/20 03:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-59	Lab ID: 92501616013	Collected: 10/21/20 15:15	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/25/20 00:42	10/25/20 00:42		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/25/20 00:42	10/25/20 00:42		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/25/20 14:28	10/25/20 14:28	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/25/20 00:42	10/25/20 00:42	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.6	%	70.0-130	1	10/25/20 00:42	10/25/20 00:42	615-59-8FID	
2,5-Dibromotoluene (FID)	89.4	%	70.0-130	1	10/25/20 14:28	10/25/20 14:28	615-59-8FID	
2,5-Dibromotoluene (PID)	100	%	70.0-130	1	10/25/20 00:42	10/25/20 00:42	615-59-8PID	
2,5-Dibromotoluene (PID)	83.4	%	70.0-130	1	10/25/20 14:28	10/25/20 14:28	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/24/20 02:35	10/26/20 15:25	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/24/20 03:56	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 03:56	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 03:56	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 03:56	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 03:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 03:56	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:56	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:56	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 03:56	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 03:56	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 03:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 03:56	75-00-3	
Chloroform	2.5	ug/L	0.50	1		10/24/20 03:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 03:56	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 03:56	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 03:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 03:56	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 03:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 03:56	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 03:56	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 03:56	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 03:56	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 03:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 03:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 03:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:56	78-87-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: MW-59	Lab ID: 92501616013	Collected: 10/21/20 15:15	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:56	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 03:56	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:56	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 03:56	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 03:56	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 03:56	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 03:56	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 03:56	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 03:56	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 03:56	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 03:56	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 03:56	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 03:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 03:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 03:56	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 03:56	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 03:56	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 03:56	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 03:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 03:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 03:56	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 03:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 03:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 03:56	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 03:56	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 03:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 03:56	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 03:56	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 03:56	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		10/24/20 03:56	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/24/20 03:56	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/24/20 03:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: FB-01-20201021	Lab ID: 92501616014	Collected: 10/21/20 16:00	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/25/20 01:15	10/25/20 01:15		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/25/20 01:15	10/25/20 01:15		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/25/20 15:01	10/25/20 15:01	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/25/20 01:15	10/25/20 01:15	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.9	%	70.0-130	1	10/25/20 01:15	10/25/20 01:15	615-59-8FID	
2,5-Dibromotoluene (FID)	88.0	%	70.0-130	1	10/25/20 15:01	10/25/20 15:01	615-59-8FID	
2,5-Dibromotoluene (PID)	94.6	%	70.0-130	1	10/25/20 01:15	10/25/20 01:15	615-59-8PID	
2,5-Dibromotoluene (PID)	82.0	%	70.0-130	1	10/25/20 15:01	10/25/20 15:01	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/24/20 02:35	10/26/20 15:32	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/23/20 23:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 23:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 23:28	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 23:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 23:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 23:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 23:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 23:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 23:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 23:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 23:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 23:28	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 23:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 23:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 23:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 23:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 23:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 23:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 23:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 23:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 23:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 23:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 23:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 23:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 23:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 23:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 23:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 23:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 23:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 23:28	78-87-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: FB-01-20201021	Lab ID: 92501616014	Collected: 10/21/20 16:00	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 23:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 23:28	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 23:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 23:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 23:28	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 23:28	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 23:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 23:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 23:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 23:28	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 23:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 23:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 23:28	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 23:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 23:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 23:28	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 23:28	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 23:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 23:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 23:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 23:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 23:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 23:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 23:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 23:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 23:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 23:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 23:28	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 23:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 23:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/23/20 23:28	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/23/20 23:28	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/23/20 23:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: TRIP BLANK	Lab ID: 92501616015	Collected: 10/21/20 00:00	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/23/20 23:46	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/23/20 23:46	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/23/20 23:46	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/23/20 23:46	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/23/20 23:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/23/20 23:46	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/23/20 23:46	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/23/20 23:46	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/23/20 23:46	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/23/20 23:46	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/23/20 23:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/23/20 23:46	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/23/20 23:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/23/20 23:46	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 23:46	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/23/20 23:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/23/20 23:46	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/23/20 23:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/23/20 23:46	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/23/20 23:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 23:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 23:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/23/20 23:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/23/20 23:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/23/20 23:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/23/20 23:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/23/20 23:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 23:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/23/20 23:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 23:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/23/20 23:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/23/20 23:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/23/20 23:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 23:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/23/20 23:46	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/23/20 23:46	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/23/20 23:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/23/20 23:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/23/20 23:46	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/23/20 23:46	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/23/20 23:46	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/23/20 23:46	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/23/20 23:46	103-65-1	
Styrene	ND	ug/L	0.50	1		10/23/20 23:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 23:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/23/20 23:46	79-34-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: TRIP BLANK	Lab ID: 92501616015	Collected: 10/21/20 00:00	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/23/20 23:46	127-18-4	
Toluene	ND	ug/L	0.50	1		10/23/20 23:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 23:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/23/20 23:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/23/20 23:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/23/20 23:46	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/23/20 23:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/23/20 23:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/23/20 23:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 23:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/23/20 23:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/23/20 23:46	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/23/20 23:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/23/20 23:46	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/23/20 23:46	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/23/20 23:46	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/23/20 23:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: TRIP BLANK	Lab ID: 92501616016	Collected: 10/21/20 00:00	Received: 10/21/20 17:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/24/20 00:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/24/20 00:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/24/20 00:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/24/20 00:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/24/20 00:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/24/20 00:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/24/20 00:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/24/20 00:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/24/20 00:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/24/20 00:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/24/20 00:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/24/20 00:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 00:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/24/20 00:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/24/20 00:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/24/20 00:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/24/20 00:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/24/20 00:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/24/20 00:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/24/20 00:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/24/20 00:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/24/20 00:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/24/20 00:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/24/20 00:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/24/20 00:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/24/20 00:03	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/24/20 00:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/24/20 00:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/24/20 00:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/24/20 00:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/24/20 00:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/24/20 00:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/24/20 00:03	103-65-1	
Styrene	ND	ug/L	0.50	1		10/24/20 00:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 00:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/24/20 00:03	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Sample: TRIP BLANK		Lab ID: 92501616016		Collected: 10/21/20 00:00	Received: 10/21/20 17:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/24/20 00:03	127-18-4	
Toluene	ND	ug/L	0.50	1		10/24/20 00:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 00:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/24/20 00:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/24/20 00:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/24/20 00:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/24/20 00:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/24/20 00:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/24/20 00:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 00:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/24/20 00:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/24/20 00:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/24/20 00:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/24/20 00:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/24/20 00:03	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/24/20 00:03	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/24/20 00:03	2037-26-5	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501616

QC Batch:	1564882	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92501616001, 92501616002, 92501616003, 92501616004, 92501616005, 92501616006, 92501616007, 92501616008, 92501616009, 92501616010, 92501616011, 92501616012, 92501616013, 92501616014

METHOD BLANK: R3585245-2 Matrix: Water
Associated Lab Samples: 92501616001, 92501616002, 92501616003, 92501616004, 92501616005, 92501616006, 92501616007, 92501616008, 92501616009, 92501616010, 92501616011, 92501616012, 92501616013, 92501616014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/24/20 15:17	
Aliphatic (C09-C12)	ug/L	ND	100	10/24/20 15:17	
Aromatic (C09-C10), Unadjusted	ug/L	ND	100	10/24/20 15:17	
Total VPH	ug/L	ND	100	10/24/20 15:17	
2,5-Dibromotoluene (FID)	%	84.2	70.0-130	10/24/20 15:17	
2,5-Dibromotoluene (PID)	%	92.3	70.0-130	10/24/20 15:17	

Parameter	Units	R3585245-1		R3585245-3		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
Aliphatic (C05-C08)	ug/L	1200	973	985	81.1	82.1	70.0-130	1.23	25
Aliphatic (C09-C12)	ug/L	1400	1550	1500	111	107	70.0-130	3.28	25
Aromatic (C09-C10), Unadjusted	ug/L	200	240	261	120	131	70.0-130	8.38	25 L0
Total VPH	ug/L	2800	2760	2750	98.6	98.2	70.0-130	0.363	25
2,5-Dibromotoluene (FID)	%				93.0	99.7	70.0-130		
2,5-Dibromotoluene (PID)	%				103	104	70.0-130		

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501616

QC Batch: 1565176 Analysis Method: MADEP VPH
QC Batch Method: MADEPV Analysis Description: MADEPV
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92501616007, 92501616013, 92501616014

METHOD BLANK: R3585488-3 Matrix: Water
Associated Lab Samples: 92501616007, 92501616013, 92501616014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10), Unadjusted	ug/L	ND	100	10/25/20 13:22	
2,5-Dibromotoluene (FID)	%	84.8	70.0-130	10/25/20 13:22	
2,5-Dibromotoluene (PID)	%	78.6	70.0-130	10/25/20 13:22	

Parameter	Units	R3585488-1		R3585488-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
Aromatic (C09-C10), Unadjusted	ug/L	200	164	163	82.0	81.5	70.0-130	0.612	25
2,5-Dibromotoluene (FID)	%				84.1	86.7	70.0-130		
2,5-Dibromotoluene (PID)	%				79.8	84.0	70.0-130		

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501616

QC Batch:	575518	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92501616001, 92501616002, 92501616003, 92501616004, 92501616005, 92501616006, 92501616007, 92501616008, 92501616009, 92501616010, 92501616011, 92501616012, 92501616013, 92501616014

METHOD BLANK: 3046797 Matrix: Water

Associated Lab Samples: 92501616001, 92501616002, 92501616003, 92501616004, 92501616005, 92501616006, 92501616007, 92501616008, 92501616009, 92501616010, 92501616011, 92501616012, 92501616013, 92501616014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/26/20 13:50	

LABORATORY CONTROL SAMPLE: 3046798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	468	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3046799 3046800

Parameter	92501615001 Units	92501615001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Lead	ug/L	5.1	500	500	500	503	99	100	75-125	1	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

QC Batch: 575447

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501616001, 92501616002, 92501616003, 92501616004, 92501616005, 92501616006, 92501616007, 92501616008, 92501616009, 92501616010, 92501616011, 92501616012, 92501616013, 92501616014, 92501616015, 92501616016

METHOD BLANK: 3046215

Matrix: Water

Associated Lab Samples: 92501616001, 92501616002, 92501616003, 92501616004, 92501616005, 92501616006, 92501616007, 92501616008, 92501616009, 92501616010, 92501616011, 92501616012, 92501616013, 92501616014, 92501616015, 92501616016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 23:10	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/23/20 23:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/23/20 23:10	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/23/20 23:10	
1,1-Dichloroethane	ug/L	ND	0.50	10/23/20 23:10	
1,1-Dichloroethene	ug/L	ND	0.50	10/23/20 23:10	
1,1-Dichloropropene	ug/L	ND	0.50	10/23/20 23:10	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/23/20 23:10	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/23/20 23:10	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/23/20 23:10	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/23/20 23:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/23/20 23:10	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/23/20 23:10	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/23/20 23:10	
1,2-Dichloroethane	ug/L	ND	0.50	10/23/20 23:10	
1,2-Dichloropropane	ug/L	ND	0.50	10/23/20 23:10	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/23/20 23:10	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/23/20 23:10	
1,3-Dichloropropane	ug/L	ND	0.50	10/23/20 23:10	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/23/20 23:10	
2,2-Dichloropropane	ug/L	ND	0.50	10/23/20 23:10	
2-Chlorotoluene	ug/L	ND	0.50	10/23/20 23:10	
4-Chlorotoluene	ug/L	ND	0.50	10/23/20 23:10	
Benzene	ug/L	ND	0.50	10/23/20 23:10	
Bromobenzene	ug/L	ND	0.50	10/23/20 23:10	
Bromochloromethane	ug/L	ND	0.50	10/23/20 23:10	
Bromodichloromethane	ug/L	ND	0.50	10/23/20 23:10	
Bromoform	ug/L	ND	0.50	10/23/20 23:10	
Bromomethane	ug/L	ND	5.0	10/23/20 23:10	
Carbon tetrachloride	ug/L	ND	0.50	10/23/20 23:10	
Chlorobenzene	ug/L	ND	0.50	10/23/20 23:10	
Chloroethane	ug/L	ND	1.0	10/23/20 23:10	
Chloroform	ug/L	ND	0.50	10/23/20 23:10	
Chloromethane	ug/L	ND	1.0	10/23/20 23:10	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 23:10	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 23:10	
Dibromochloromethane	ug/L	ND	0.50	10/23/20 23:10	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

METHOD BLANK: 3046215

Matrix: Water

Associated Lab Samples: 92501616001, 92501616002, 92501616003, 92501616004, 92501616005, 92501616006, 92501616007, 92501616008, 92501616009, 92501616010, 92501616011, 92501616012, 92501616013, 92501616014, 92501616015, 92501616016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	0.50	10/23/20 23:10	
Dichlorodifluoromethane	ug/L	ND	0.50	10/23/20 23:10	
Diisopropyl ether	ug/L	ND	0.50	10/23/20 23:10	
Ethylbenzene	ug/L	ND	0.50	10/23/20 23:10	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/23/20 23:10	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/23/20 23:10	
m&p-Xylene	ug/L	ND	1.0	10/23/20 23:10	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/23/20 23:10	
Methylene Chloride	ug/L	ND	2.0	10/23/20 23:10	
n-Butylbenzene	ug/L	ND	0.50	10/23/20 23:10	
n-Propylbenzene	ug/L	ND	0.50	10/23/20 23:10	
Naphthalene	ug/L	ND	2.0	10/23/20 23:10	
o-Xylene	ug/L	ND	0.50	10/23/20 23:10	
sec-Butylbenzene	ug/L	ND	0.50	10/23/20 23:10	
Styrene	ug/L	ND	0.50	10/23/20 23:10	
tert-Butylbenzene	ug/L	ND	0.50	10/23/20 23:10	
Tetrachloroethene	ug/L	ND	0.50	10/23/20 23:10	
Toluene	ug/L	ND	0.50	10/23/20 23:10	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/23/20 23:10	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/23/20 23:10	
Trichloroethene	ug/L	ND	0.50	10/23/20 23:10	
Trichlorofluoromethane	ug/L	ND	1.0	10/23/20 23:10	
Vinyl chloride	ug/L	ND	1.0	10/23/20 23:10	
1,2-Dichloroethane-d4 (S)	%	98	70-130	10/23/20 23:10	
4-Bromofluorobenzene (S)	%	97	70-130	10/23/20 23:10	
Toluene-d8 (S)	%	100	70-130	10/23/20 23:10	

LABORATORY CONTROL SAMPLE: 3046216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.5	103	60-140	
1,1,1-Trichloroethane	ug/L	50	49.6	99	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.5	99	60-140	
1,1,2-Trichloroethane	ug/L	50	49.1	98	60-140	
1,1-Dichloroethane	ug/L	50	48.8	98	60-140	
1,1-Dichloroethene	ug/L	50	51.4	103	60-140	
1,1-Dichloropropene	ug/L	50	49.3	99	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.7	107	60-140	
1,2,3-Trichloropropane	ug/L	50	50.7	101	60-140	
1,2,4-Trichlorobenzene	ug/L	50	55.0	110	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.0	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	56.5	113	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501616

LABORATORY CONTROL SAMPLE: 3046216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	51.1	102	60-140	
1,2-Dichlorobenzene	ug/L	50	52.3	105	60-140	
1,2-Dichloroethane	ug/L	50	43.9	88	60-140	
1,2-Dichloropropane	ug/L	50	49.6	99	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.9	104	60-140	
1,3-Dichlorobenzene	ug/L	50	52.2	104	60-140	
1,3-Dichloropropane	ug/L	50	52.3	105	60-140	
1,4-Dichlorobenzene	ug/L	50	52.1	104	60-140	
2,2-Dichloropropane	ug/L	50	49.8	100	60-140	
2-Chlorotoluene	ug/L	50	53.3	107	60-140	
4-Chlorotoluene	ug/L	50	52.1	104	60-140	
Benzene	ug/L	50	49.9	100	60-140	
Bromobenzene	ug/L	50	50.2	100	60-140	
Bromochloromethane	ug/L	50	48.3	97	60-140	
Bromodichloromethane	ug/L	50	48.8	98	60-140	
Bromoform	ug/L	50	48.2	96	60-140	
Bromomethane	ug/L	50	59.8	120	60-140	
Carbon tetrachloride	ug/L	50	49.0	98	60-140	
Chlorobenzene	ug/L	50	51.0	102	60-140	
Chloroethane	ug/L	50	39.1	78	60-140	
Chloroform	ug/L	50	48.5	97	60-140	
Chloromethane	ug/L	50	42.7	85	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.2	96	60-140	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	60-140	
Dibromochloromethane	ug/L	50	52.3	105	60-140	
Dibromomethane	ug/L	50	50.1	100	60-140	
Dichlorodifluoromethane	ug/L	50	45.1	90	60-140	
Diisopropyl ether	ug/L	50	48.0	96	60-140	
Ethylbenzene	ug/L	50	49.8	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	51.1	102	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.8	104	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	48.5	97	60-140	
Methylene Chloride	ug/L	50	47.5	95	60-140	
n-Butylbenzene	ug/L	50	54.3	109	60-140	
n-Propylbenzene	ug/L	50	52.6	105	60-140	
Naphthalene	ug/L	50	56.5	113	60-140	
o-Xylene	ug/L	50	50.6	101	60-140	
sec-Butylbenzene	ug/L	50	52.4	105	60-140	
Styrene	ug/L	50	51.4	103	60-140	
tert-Butylbenzene	ug/L	50	44.8	90	60-140	
Tetrachloroethene	ug/L	50	51.5	103	60-140	
Toluene	ug/L	50	48.8	98	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.6	99	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.0	100	60-140	
Trichloroethene	ug/L	50	50.2	100	60-140	
Trichlorofluoromethane	ug/L	50	41.7	83	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

LABORATORY CONTROL SAMPLE: 3046216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	50	44.7	89	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3047148 3047149

Parameter	92501616001		MS	MSD	3047148		3047149		% Rec	% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	23.0	23.4	115	117	60-140	2		
1,1,1-Trichloroethane	ug/L	ND	20	20	24.5	24.2	123	121	60-140	1		
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.9	22.0	110	110	60-140	0		
1,1,2-Trichloroethane	ug/L	ND	20	20	22.4	21.9	112	110	60-140	2		
1,1-Dichloroethane	ug/L	ND	20	20	23.6	23.5	118	118	60-140	0		
1,1-Dichloroethene	ug/L	ND	20	20	27.4	26.4	137	132	60-140	4		
1,1-Dichloropropene	ug/L	ND	20	20	24.3	23.8	122	119	60-140	2		
1,2,3-Trichlorobenzene	ug/L	ND	20	20	23.2	23.3	116	116	60-140	0		
1,2,3-Trichloropropane	ug/L	ND	20	20	21.9	21.9	109	110	60-140	0		
1,2,4-Trichlorobenzene	ug/L	ND	20	20	23.8	23.4	119	117	60-140	1		
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.2	22.9	111	115	60-140	3		
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	24.1	24.4	120	122	60-140	2		
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	23.0	22.9	115	115	60-140	0		
1,2-Dichlorobenzene	ug/L	ND	20	20	22.4	22.4	112	112	60-140	0		
1,2-Dichloroethane	ug/L	ND	20	20	20.9	20.5	104	103	60-140	2		
1,2-Dichloropropane	ug/L	ND	20	20	23.0	22.6	115	113	60-140	2		
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.5	23.3	117	116	60-140	1		
1,3-Dichlorobenzene	ug/L	ND	20	20	22.6	22.4	113	112	60-140	1		
1,3-Dichloropropane	ug/L	ND	20	20	23.2	23.0	116	115	60-140	1		
1,4-Dichlorobenzene	ug/L	ND	20	20	22.5	22.4	112	112	60-140	0		
2,2-Dichloropropane	ug/L	ND	20	20	25.0	24.5	125	123	60-140	2		
2-Chlorotoluene	ug/L	ND	20	20	23.3	23.5	117	117	60-140	1		
4-Chlorotoluene	ug/L	ND	20	20	22.5	22.3	113	111	60-140	1		
Benzene	ug/L	ND	20	20	23.0	22.7	115	113	60-140	1		
Bromobenzene	ug/L	ND	20	20	23.1	22.9	115	114	60-140	1		
Bromochloromethane	ug/L	ND	20	20	22.8	22.5	114	112	60-140	1		
Bromodichloromethane	ug/L	ND	20	20	22.3	22.4	111	112	60-140	1		
Bromoform	ug/L	ND	20	20	21.5	21.2	108	106	60-140	2		
Bromomethane	ug/L	ND	20	20	29.2	29.8	146	149	60-140	2	M1	
Carbon tetrachloride	ug/L	ND	20	20	23.3	23.2	117	116	60-140	0		
Chlorobenzene	ug/L	ND	20	20	23.1	23.0	115	115	60-140	0		
Chloroethane	ug/L	ND	20	20	21.6	20.9	108	105	60-140	3		
Chloroform	ug/L	ND	20	20	23.7	23.5	119	118	60-140	1		
Chloromethane	ug/L	ND	20	20	22.6	21.4	113	107	60-140	5		
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.3	22.9	117	114	60-140	2		
cis-1,3-Dichloropropene	ug/L	ND	20	20	23.7	23.4	118	117	60-140	1		

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

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

Parameter	92501616001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Dibromochloromethane	ug/L	ND	20	20	23.8	23.7	119	119	60-140	0				
Dibromomethane	ug/L	ND	20	20	23.3	23.4	116	117	60-140	0				
Dichlorodifluoromethane	ug/L	ND	20	20	21.7	21.4	109	107	60-140	2				
Diisopropyl ether	ug/L	ND	20	20	22.8	22.4	114	112	60-140	2				
Ethylbenzene	ug/L	ND	20	20	22.8	22.5	114	113	60-140	1				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	25.0	23.9	125	119	60-140	4				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	23.4	23.4	117	117	60-140	0				
m&p-Xylene	ug/L	ND	40	40	46.2	45.6	115	114	60-140	1				
Methyl-tert-butyl ether	ug/L	ND	20	20	22.9	22.4	114	112	60-140	2				
Methylene Chloride	ug/L	ND	20	20	22.7	22.3	113	112	60-140	2				
n-Butylbenzene	ug/L	ND	20	20	24.5	24.2	122	121	60-140	1				
n-Propylbenzene	ug/L	ND	20	20	24.4	23.6	122	118	60-140	3				
Naphthalene	ug/L	ND	20	20	23.5	23.1	117	115	60-140	2				
o-Xylene	ug/L	ND	20	20	22.8	22.8	114	114	60-140	0				
sec-Butylbenzene	ug/L	ND	20	20	23.8	23.8	119	119	60-140	0				
Styrene	ug/L	ND	20	20	22.6	22.2	113	111	60-140	2				
tert-Butylbenzene	ug/L	ND	20	20	20.5	20.5	102	102	60-140	0				
Tetrachloroethene	ug/L	ND	20	20	23.3	23.4	117	117	60-140	0				
Toluene	ug/L	ND	20	20	22.8	22.5	114	113	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	20	20	25.1	24.1	126	121	60-140	4				
trans-1,3-Dichloropropene	ug/L	ND	20	20	22.6	22.5	113	113	60-140	0				
Trichloroethene	ug/L	ND	20	20	23.2	23.4	116	117	60-140	1				
Trichlorofluoromethane	ug/L	ND	20	20	22.4	22.0	112	110	60-140	2				
Vinyl chloride	ug/L	ND	20	20	22.5	21.1	113	106	60-140	6				
1,2-Dichloroethane-d4 (S)	%						108	105	70-130					
4-Bromofluorobenzene (S)	%						98	99	70-130					
Toluene-d8 (S)	%						99	99	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

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QUALIFIERS

Project: Colonial Pipeline ER (10/21)

Pace Project No.: 92501616

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501616

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501616001	MW-1	MADEPV	1564882	MADEP VPH	1564882
92501616002	MW-2	MADEPV	1564882	MADEP VPH	1564882
92501616003	MW-4	MADEPV	1564882	MADEP VPH	1564882
92501616004	MW-5	MADEPV	1564882	MADEP VPH	1564882
92501616005	MW-6	MADEPV	1564882	MADEP VPH	1564882
92501616006	MW-9	MADEPV	1564882	MADEP VPH	1564882
92501616007	MW-12	MADEPV	1564882	MADEP VPH	1564882
92501616007	MW-12	MADEPV	1565176	MADEP VPH	1565176
92501616008	MW-15	MADEPV	1564882	MADEP VPH	1564882
92501616009	MW-30	MADEPV	1564882	MADEP VPH	1564882
92501616010	MW-35	MADEPV	1564882	MADEP VPH	1564882
92501616011	MW-36	MADEPV	1564882	MADEP VPH	1564882
92501616012	MW-37	MADEPV	1564882	MADEP VPH	1564882
92501616013	MW-59	MADEPV	1564882	MADEP VPH	1564882
92501616013	MW-59	MADEPV	1565176	MADEP VPH	1565176
92501616014	FB-01-20201021	MADEPV	1564882	MADEP VPH	1564882
92501616014	FB-01-20201021	MADEPV	1565176	MADEP VPH	1565176
92501616001	MW-1	EPA 3010A	575518	EPA 6010D	575529
92501616002	MW-2	EPA 3010A	575518	EPA 6010D	575529
92501616003	MW-4	EPA 3010A	575518	EPA 6010D	575529
92501616004	MW-5	EPA 3010A	575518	EPA 6010D	575529
92501616005	MW-6	EPA 3010A	575518	EPA 6010D	575529
92501616006	MW-9	EPA 3010A	575518	EPA 6010D	575529
92501616007	MW-12	EPA 3010A	575518	EPA 6010D	575529
92501616008	MW-15	EPA 3010A	575518	EPA 6010D	575529
92501616009	MW-30	EPA 3010A	575518	EPA 6010D	575529
92501616010	MW-35	EPA 3010A	575518	EPA 6010D	575529
92501616011	MW-36	EPA 3010A	575518	EPA 6010D	575529
92501616012	MW-37	EPA 3010A	575518	EPA 6010D	575529
92501616013	MW-59	EPA 3010A	575518	EPA 6010D	575529
92501616014	FB-01-20201021	EPA 3010A	575518	EPA 6010D	575529
92501616001	MW-1	SM 6200B	575447		
92501616002	MW-2	SM 6200B	575447		
92501616003	MW-4	SM 6200B	575447		
92501616004	MW-5	SM 6200B	575447		
92501616005	MW-6	SM 6200B	575447		
92501616006	MW-9	SM 6200B	575447		
92501616007	MW-12	SM 6200B	575447		
92501616008	MW-15	SM 6200B	575447		
92501616009	MW-30	SM 6200B	575447		
92501616010	MW-35	SM 6200B	575447		
92501616011	MW-36	SM 6200B	575447		
92501616012	MW-37	SM 6200B	575447		
92501616013	MW-59	SM 6200B	575447		
92501616014	FB-01-20201021	SM 6200B	575447		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline ER (10/21)
Pace Project No.: 92501616

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501616015	TRIP BLANK	SM 6200B	575447		
92501616016	TRIP BLANK	SM 6200B	575447		

REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition
Upon Receipt

Client Name: AECOM

Project #: **WO# : 92501616**



92501616

Courier: Fed.Ex UPS USPS Client
 Commercial Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 10/22/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?
 Yes No N/A

Thermometer: 92T061 Type of Ice: Wet Blue None
 IR Gun ID: _____

Cooler Temp (°C): 3.3 / 1.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 3.3 / 1.9

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: _____			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: NMG

Date: 10/22/20

Project Manager SRF Review: NMG

Date: 10/22/20

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # **WO# : 92501616**

PM: NMG

Due Date: 10/28/20

CLIENT : 92-RECOM CHA

P /

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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).



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
 Exceptions: VOA, Collform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project # **W0# : 92501616**

PM: NMG Due Date: 10/28/20
 CLIENT: 92-AECOM CHA

**Bottom half of box is to list number of bottle

p2

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/	
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/	
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	7	/	/	/	/	/	/	/	/	/	/	/	/	
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9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time presentation adjusted	Amount of Preservative added	Lot #

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.

November 02, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline ER (10/22)
Pace Project No.: 92501860

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on October 22, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Colonial Pipeline ER (10/22)
Pace Project No.: 92501860

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122

Alabama Certification #: 40660

Alaska Certification 17-026

Arizona Certification #: AZ0612

Arkansas Certification #: 88-0469

California Certification #: 2932

Canada Certification #: 1461.01

Colorado Certification #: TN00003

Connecticut Certification #: PH-0197

DOD Certification: #1461.01

EPA# TN00003

Florida Certification #: E87487

Georgia DW Certification #: 923

Georgia Certification: NELAP

Idaho Certification #: TN00003

Illinois Certification #: 200008

Indiana Certification #: C-TN-01

Iowa Certification #: 364

Kansas Certification #: E-10277

Kentucky UST Certification #: 16

Kentucky Certification #: 90010

Louisiana Certification #: AI30792

Louisiana DW Certification #: LA180010

Maine Certification #: TN0002

Maryland Certification #: 324

Massachusetts Certification #: M-TN003

Michigan Certification #: 9958

Minnesota Certification #: 047-999-395

Mississippi Certification #: TN00003

Missouri Certification #: 340

Montana Certification #: CERT0086

Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34

New Hampshire Certification #: 2975

New Jersey Certification #: TN002

New Mexico DW Certification

New York Certification #: 11742

North Carolina Aquatic Toxicity Certification #: 41

North Carolina Drinking Water Certification #: 21704

North Carolina Environmental Certificate #: 375

North Dakota Certification #: R-140

Ohio VAP Certification #: CL0069

Oklahoma Certification #: 9915

Oregon Certification #: TN200002

Pennsylvania Certification #: 68-02979

Rhode Island Certification #: LAO00356

South Carolina Certification #: 84004

South Dakota Certification

Tennessee DW/Chem/Micro Certification #: 2006

Texas Certification #: T 104704245-17-14

Texas Mold Certification #: LAB0152

USDA Soil Permit #: P330-15-00234

Utah Certification #: TN00003

Vermont Dept. of Health: ID# VT-2006

Virginia Certification #: VT2006

Virginia Certification #: 460132

Washington Certification #: C847

West Virginia Certification #: 233

Wisconsin Certification #: 998093910

Wyoming UST Certification #: via A2LA 2926.01

A2LA-ISO 17025 Certification #: 1461.01

A2LA-ISO 17025 Certification #: 1461.02

AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/22)
Pace Project No.: 92501860

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501860001	MW-3	MADEP VPH	ACG, ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860002	MW-22	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860003	MW-27	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860004	MW-29	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860005	MW-32	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860006	MW-33	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860007	MW-34	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860008	MW-48	MADEP VPH	ACG	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860009	MW-53	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860010	MW-54	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860011	MW-56	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860012	MW-57	MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501860013	MW-58	MADEP VPH	ADM	6	PAN

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501860014	DUP-2-20201022	EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
		MADEP VPH	ADM	6	PAN
92501860015	FB-2-20201022	EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
		MADEP VPH	ADM	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-3	Lab ID: 92501860001	Collected: 10/22/20 14:00	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/30/20 03:33	10/30/20 03:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/30/20 03:33	10/30/20 03:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/30/20 15:20	10/30/20 15:20	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/30/20 03:33	10/30/20 03:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.7	%	70.0-130	1	10/30/20 03:33	10/30/20 03:33	615-59-8FID	
2,5-Dibromotoluene (FID)	90.7	%	70.0-130	1	10/30/20 15:20	10/30/20 15:20	615-59-8FID	
2,5-Dibromotoluene (PID)	91.1	%	70.0-130	1	10/30/20 03:33	10/30/20 03:33	615-59-8PID	
2,5-Dibromotoluene (PID)	97.5	%	70.0-130	1	10/30/20 15:20	10/30/20 15:20	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	9.9	ug/L	5.0	1	10/24/20 02:35	10/26/20 15:48	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/26/20 20:29	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/26/20 20:29	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/26/20 20:29	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/26/20 20:29	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/26/20 20:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/26/20 20:29	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/26/20 20:29	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/26/20 20:29	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/26/20 20:29	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/26/20 20:29	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/26/20 20:29	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/26/20 20:29	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/26/20 20:29	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/26/20 20:29	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/26/20 20:29	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/26/20 20:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/26/20 20:29	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/26/20 20:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/26/20 20:29	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/26/20 20:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/26/20 20:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/26/20 20:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/26/20 20:29	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/26/20 20:29	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/26/20 20:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/26/20 20:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/26/20 20:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/26/20 20:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/26/20 20:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/26/20 20:29	78-87-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-3	Lab ID: 92501860001	Collected: 10/22/20 14:00	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,3-Dichloropropane	ND	ug/L	0.50	1		10/26/20 20:29	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/26/20 20:29	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/26/20 20:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/26/20 20:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/26/20 20:29	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/26/20 20:29	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/26/20 20:29	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/26/20 20:29	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/26/20 20:29	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/26/20 20:29	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/26/20 20:29	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/26/20 20:29	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/26/20 20:29	103-65-1	
Styrene	ND	ug/L	0.50	1		10/26/20 20:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/26/20 20:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/26/20 20:29	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/26/20 20:29	127-18-4	
Toluene	ND	ug/L	0.50	1		10/26/20 20:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/26/20 20:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/26/20 20:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/26/20 20:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/26/20 20:29	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/26/20 20:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/26/20 20:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/26/20 20:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/26/20 20:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/26/20 20:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/26/20 20:29	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/26/20 20:29	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/26/20 20:29	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/26/20 20:29	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/26/20 20:29	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/26/20 20:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-22	Lab ID: 92501860002	Collected: 10/22/20 13:40	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/30/20 04:07	10/30/20 04:07		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/30/20 04:07	10/30/20 04:07		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/30/20 04:07	10/30/20 04:07	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/30/20 04:07	10/30/20 04:07	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.6	%	70.0-130	1	10/30/20 04:07	10/30/20 04:07	615-59-8FID	
2,5-Dibromotoluene (PID)	90.9	%	70.0-130	1	10/30/20 04:07	10/30/20 04:07	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/24/20 02:35	10/26/20 15:51	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/26/20 20:47	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/26/20 20:47	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/26/20 20:47	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/26/20 20:47	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/26/20 20:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/26/20 20:47	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/26/20 20:47	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/26/20 20:47	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/26/20 20:47	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/26/20 20:47	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/26/20 20:47	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/26/20 20:47	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/26/20 20:47	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/26/20 20:47	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/26/20 20:47	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/26/20 20:47	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/26/20 20:47	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/26/20 20:47	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/26/20 20:47	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/26/20 20:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/26/20 20:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/26/20 20:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/26/20 20:47	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/26/20 20:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/26/20 20:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/26/20 20:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/26/20 20:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/26/20 20:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/26/20 20:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/26/20 20:47	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/26/20 20:47	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/26/20 20:47	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-22	Lab ID: 92501860002	Collected: 10/22/20 13:40	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/26/20 20:47	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/26/20 20:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/26/20 20:47	10061-02-6	
Diisopropyl ether	1.6	ug/L	0.50	1		10/26/20 20:47	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/26/20 20:47	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/26/20 20:47	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/26/20 20:47	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/26/20 20:47	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/26/20 20:47	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/26/20 20:47	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/26/20 20:47	103-65-1	
Styrene	ND	ug/L	0.50	1		10/26/20 20:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/26/20 20:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/26/20 20:47	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/26/20 20:47	127-18-4	
Toluene	0.50	ug/L	0.50	1		10/26/20 20:47	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/26/20 20:47	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/26/20 20:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/26/20 20:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/26/20 20:47	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/26/20 20:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/26/20 20:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/26/20 20:47	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/26/20 20:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/26/20 20:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/26/20 20:47	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/26/20 20:47	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/26/20 20:47	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/26/20 20:47	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		10/26/20 20:47	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/26/20 20:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-27 **Lab ID: 92501860003** Collected: 10/22/20 15:20 Received: 10/22/20 17:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	10/30/20 04:40	10/30/20 04:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/30/20 04:40	10/30/20 04:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/30/20 04:40	10/30/20 04:40	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/30/20 04:40	10/30/20 04:40	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.5	%	70.0-130	1	10/30/20 04:40	10/30/20 04:40	615-59-8FID	
2,5-Dibromotoluene (PID)	94.9	%	70.0-130	1	10/30/20 04:40	10/30/20 04:40	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	18.4	ug/L	5.0	1	10/24/20 02:35	10/26/20 15:54	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		10/27/20 03:20	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 03:20	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 03:20	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 03:20	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 03:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 03:20	74-83-9	M1
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 03:20	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 03:20	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 03:20	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 03:20	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 03:20	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 03:20	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/27/20 03:20	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 03:20	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 03:20	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 03:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 03:20	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 03:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 03:20	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 03:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 03:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 03:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 03:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 03:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 03:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 03:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 03:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 03:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 03:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 03:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 03:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 03:20	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-27	Lab ID: 92501860003	Collected: 10/22/20 15:20	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 03:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 03:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 03:20	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 03:20	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 03:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 03:20	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 03:20	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 03:20	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 03:20	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 03:20	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 03:20	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 03:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 03:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 03:20	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 03:20	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 03:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 03:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 03:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 03:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 03:20	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 03:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 03:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 03:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 03:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 03:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 03:20	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 03:20	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 03:20	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/27/20 03:20	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/27/20 03:20	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/27/20 03:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-29	Lab ID: 92501860004	Collected: 10/22/20 14:45	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/30/20 05:13	10/30/20 05:13		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/30/20 05:13	10/30/20 05:13		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/30/20 05:13	10/30/20 05:13	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/30/20 05:13	10/30/20 05:13	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	89.3	%	70.0-130	1	10/30/20 05:13	10/30/20 05:13	615-59-8FID	
2,5-Dibromotoluene (PID)	94.4	%	70.0-130	1	10/30/20 05:13	10/30/20 05:13	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/24/20 02:35	10/26/20 15:58	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/27/20 03:37	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 03:37	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 03:37	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 03:37	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 03:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 03:37	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 03:37	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 03:37	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 03:37	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 03:37	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 03:37	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 03:37	75-00-3	
Chloroform	0.77	ug/L	0.50	1		10/27/20 03:37	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 03:37	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 03:37	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 03:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 03:37	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 03:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 03:37	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 03:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 03:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 03:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 03:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 03:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 03:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 03:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 03:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 03:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 03:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 03:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 03:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 03:37	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-29	Lab ID: 92501860004	Collected: 10/22/20 14:45	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 03:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 03:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 03:37	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 03:37	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 03:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 03:37	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 03:37	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 03:37	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 03:37	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 03:37	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 03:37	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 03:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 03:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 03:37	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 03:37	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 03:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 03:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 03:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 03:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 03:37	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 03:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 03:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 03:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 03:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 03:37	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 03:37	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 03:37	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 03:37	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/27/20 03:37	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/27/20 03:37	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/27/20 03:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-32	Lab ID: 92501860005	Collected: 10/22/20 08:55	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/30/20 05:46	10/30/20 05:46		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/30/20 05:46	10/30/20 05:46		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/30/20 05:46	10/30/20 05:46	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/30/20 05:46	10/30/20 05:46	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.7	%	70.0-130	1	10/30/20 05:46	10/30/20 05:46	615-59-8FID	
2,5-Dibromotoluene (PID)	93.3	%	70.0-130	1	10/30/20 05:46	10/30/20 05:46	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/28/20 23:41	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/27/20 03:55	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 03:55	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 03:55	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 03:55	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 03:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 03:55	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 03:55	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 03:55	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 03:55	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 03:55	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 03:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 03:55	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/27/20 03:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 03:55	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 03:55	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 03:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 03:55	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 03:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 03:55	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 03:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 03:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 03:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 03:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 03:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 03:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 03:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 03:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 03:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 03:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 03:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 03:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 03:55	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-32	Lab ID: 92501860005	Collected: 10/22/20 08:55	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 03:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 03:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 03:55	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 03:55	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 03:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 03:55	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 03:55	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 03:55	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 03:55	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 03:55	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 03:55	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 03:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 03:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 03:55	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 03:55	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 03:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 03:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 03:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 03:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 03:55	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 03:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 03:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 03:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 03:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 03:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 03:55	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 03:55	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 03:55	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/27/20 03:55	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/27/20 03:55	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/27/20 03:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-33	Lab ID: 92501860006	Collected: 10/22/20 09:45	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/30/20 06:20	10/30/20 06:20		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/30/20 06:20	10/30/20 06:20		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/30/20 06:20	10/30/20 06:20	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/30/20 06:20	10/30/20 06:20	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.4	%	70.0-130	1	10/30/20 06:20	10/30/20 06:20	615-59-8FID	
2,5-Dibromotoluene (PID)	94.3	%	70.0-130	1	10/30/20 06:20	10/30/20 06:20	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	16.6	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:06	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/27/20 04:13	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 04:13	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 04:13	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 04:13	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 04:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 04:13	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 04:13	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 04:13	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 04:13	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 04:13	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 04:13	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 04:13	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/27/20 04:13	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 04:13	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 04:13	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 04:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 04:13	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 04:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 04:13	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 04:13	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 04:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 04:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 04:13	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 04:13	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 04:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 04:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 04:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 04:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 04:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 04:13	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 04:13	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 04:13	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-33	Lab ID: 92501860006	Collected: 10/22/20 09:45	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 04:13	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 04:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 04:13	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 04:13	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 04:13	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 04:13	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 04:13	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 04:13	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 04:13	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 04:13	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 04:13	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 04:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 04:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 04:13	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 04:13	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 04:13	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 04:13	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 04:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 04:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 04:13	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 04:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 04:13	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 04:13	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 04:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 04:13	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 04:13	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 04:13	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 04:13	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		10/27/20 04:13	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/27/20 04:13	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/27/20 04:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-34	Lab ID: 92501860007	Collected: 10/22/20 10:15	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/30/20 06:53	10/30/20 06:53		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/30/20 06:53	10/30/20 06:53		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/30/20 06:53	10/30/20 06:53	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/30/20 06:53	10/30/20 06:53	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	88.5	%	70.0-130	1	10/30/20 06:53	10/30/20 06:53	615-59-8FID	
2,5-Dibromotoluene (PID)	94.7	%	70.0-130	1	10/30/20 06:53	10/30/20 06:53	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	5.7	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:09	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/27/20 04:31	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 04:31	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 04:31	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 04:31	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 04:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 04:31	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 04:31	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 04:31	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 04:31	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 04:31	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 04:31	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 04:31	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/27/20 04:31	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 04:31	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 04:31	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 04:31	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 04:31	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 04:31	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 04:31	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 04:31	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 04:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 04:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 04:31	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 04:31	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 04:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 04:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 04:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 04:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 04:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 04:31	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 04:31	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 04:31	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-34	Lab ID: 92501860007	Collected: 10/22/20 10:15	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 04:31	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 04:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 04:31	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 04:31	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 04:31	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 04:31	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 04:31	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 04:31	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 04:31	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 04:31	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 04:31	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 04:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 04:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 04:31	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 04:31	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 04:31	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 04:31	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 04:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 04:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 04:31	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 04:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 04:31	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 04:31	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 04:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 04:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 04:31	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 04:31	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 04:31	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/27/20 04:31	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/27/20 04:31	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/27/20 04:31	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-48	Lab ID: 92501860008	Collected: 10/22/20 11:40	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	1270	ug/L	100	1	10/30/20 07:26	10/30/20 07:26		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/30/20 07:26	10/30/20 07:26		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/30/20 07:26	10/30/20 07:26	TPHC9C10A	
Total VPH	1300	ug/L	100	1	10/30/20 07:26	10/30/20 07:26	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.8	%	70.0-130	1	10/30/20 07:26	10/30/20 07:26	615-59-8FID	
2,5-Dibromotoluene (PID)	96.6	%	70.0-130	1	10/30/20 07:26	10/30/20 07:26	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	19.8	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:13	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	40.4	ug/L	0.50	1		10/27/20 04:49	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 04:49	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 04:49	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 04:49	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 04:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 04:49	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 04:49	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 04:49	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 04:49	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 04:49	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 04:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 04:49	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/27/20 04:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 04:49	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 04:49	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 04:49	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 04:49	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 04:49	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 04:49	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 04:49	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 04:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 04:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 04:49	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 04:49	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 04:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 04:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 04:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 04:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 04:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 04:49	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 04:49	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 04:49	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-48	Lab ID: 92501860008	Collected: 10/22/20 11:40	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 04:49	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 04:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 04:49	10061-02-6	
Diisopropyl ether	19.0	ug/L	0.50	1		10/27/20 04:49	108-20-3	
Ethylbenzene	4.1	ug/L	0.50	1		10/27/20 04:49	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 04:49	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 04:49	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 04:49	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 04:49	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 04:49	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 04:49	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 04:49	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 04:49	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 04:49	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 04:49	127-18-4	
Toluene	63.3	ug/L	0.50	1		10/27/20 04:49	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 04:49	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 04:49	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 04:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 04:49	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 04:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 04:49	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 04:49	96-18-4	
1,2,4-Trimethylbenzene	1.7	ug/L	0.50	1		10/27/20 04:49	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 04:49	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 04:49	75-01-4	
m&p-Xylene	12.0	ug/L	1.0	1		10/27/20 04:49	179601-23-1	
o-Xylene	7.9	ug/L	0.50	1		10/27/20 04:49	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/27/20 04:49	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/27/20 04:49	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/27/20 04:49	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-53	Lab ID: 92501860009	Collected: 10/22/20 11:30	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/31/20 04:06	10/31/20 04:06		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/31/20 04:06	10/31/20 04:06		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/31/20 04:06	10/31/20 04:06	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/31/20 04:06	10/31/20 04:06	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	95.6	%	70.0-130	1	10/31/20 04:06	10/31/20 04:06	615-59-8FID	
2,5-Dibromotoluene (PID)	102	%	70.0-130	1	10/31/20 04:06	10/31/20 04:06	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:16	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/27/20 05:07	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 05:07	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 05:07	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 05:07	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 05:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 05:07	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 05:07	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 05:07	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 05:07	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 05:07	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 05:07	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 05:07	75-00-3	
Chloroform	6.4	ug/L	0.50	1		10/27/20 05:07	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 05:07	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 05:07	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 05:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 05:07	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 05:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 05:07	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 05:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 05:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 05:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 05:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 05:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 05:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 05:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 05:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 05:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 05:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 05:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 05:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 05:07	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-53	Lab ID: 92501860009	Collected: 10/22/20 11:30	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 05:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 05:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 05:07	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 05:07	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 05:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 05:07	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 05:07	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 05:07	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 05:07	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 05:07	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 05:07	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 05:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 05:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 05:07	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 05:07	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 05:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 05:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 05:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 05:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 05:07	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 05:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 05:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 05:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 05:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 05:07	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 05:07	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 05:07	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 05:07	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/27/20 05:07	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/27/20 05:07	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/27/20 05:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-54	Lab ID: 92501860010	Collected: 10/22/20 15:30	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/31/20 04:39	10/31/20 04:39		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/31/20 04:39	10/31/20 04:39		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/31/20 04:39	10/31/20 04:39	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/31/20 04:39	10/31/20 04:39	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.6	%	70.0-130	1	10/31/20 04:39	10/31/20 04:39	615-59-8FID	
2,5-Dibromotoluene (PID)	97.2	%	70.0-130	1	10/31/20 04:39	10/31/20 04:39	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:19	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/27/20 05:25	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 05:25	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 05:25	74-97-5	
Bromodichloromethane	0.65	ug/L	0.50	1		10/27/20 05:25	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 05:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 05:25	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 05:25	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 05:25	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 05:25	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 05:25	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 05:25	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 05:25	75-00-3	
Chloroform	9.4	ug/L	0.50	1		10/27/20 05:25	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 05:25	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 05:25	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 05:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 05:25	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 05:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 05:25	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 05:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 05:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 05:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 05:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 05:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 05:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 05:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 05:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 05:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 05:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 05:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 05:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 05:25	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-54	Lab ID: 92501860010	Collected: 10/22/20 15:30	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 05:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 05:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 05:25	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 05:25	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 05:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 05:25	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 05:25	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 05:25	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 05:25	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 05:25	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 05:25	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 05:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 05:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 05:25	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 05:25	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 05:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 05:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 05:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 05:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 05:25	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 05:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 05:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 05:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 05:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 05:25	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 05:25	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 05:25	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 05:25	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/27/20 05:25	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/27/20 05:25	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/27/20 05:25	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-56	Lab ID: 92501860011	Collected: 10/22/20 15:25	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/31/20 05:12	10/31/20 05:12		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/31/20 05:12	10/31/20 05:12		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/31/20 05:12	10/31/20 05:12	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/31/20 05:12	10/31/20 05:12	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	93.6	%	70.0-130	1	10/31/20 05:12	10/31/20 05:12	615-59-8FID	
2,5-Dibromotoluene (PID)	102	%	70.0-130	1	10/31/20 05:12	10/31/20 05:12	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:22	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/27/20 05:43	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 05:43	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 05:43	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 05:43	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 05:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 05:43	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 05:43	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 05:43	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 05:43	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 05:43	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 05:43	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 05:43	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/27/20 05:43	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 05:43	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 05:43	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 05:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 05:43	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 05:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 05:43	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 05:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 05:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 05:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 05:43	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 05:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 05:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 05:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 05:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 05:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 05:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 05:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 05:43	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 05:43	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-56	Lab ID: 92501860011	Collected: 10/22/20 15:25	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 05:43	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 05:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 05:43	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 05:43	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 05:43	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 05:43	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 05:43	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 05:43	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 05:43	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 05:43	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 05:43	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 05:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 05:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 05:43	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 05:43	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 05:43	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 05:43	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 05:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 05:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 05:43	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 05:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 05:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 05:43	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 05:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 05:43	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 05:43	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 05:43	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 05:43	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/27/20 05:43	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/27/20 05:43	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/27/20 05:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-57	Lab ID: 92501860012	Collected: 10/22/20 13:50	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/31/20 05:45	10/31/20 05:45		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/31/20 05:45	10/31/20 05:45		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/31/20 05:45	10/31/20 05:45	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/31/20 05:45	10/31/20 05:45	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.3	%	70.0-130	1	10/31/20 05:45	10/31/20 05:45	615-59-8FID	
2,5-Dibromotoluene (PID)	98.9	%	70.0-130	1	10/31/20 05:45	10/31/20 05:45	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:25	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/27/20 06:01	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 06:01	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 06:01	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 06:01	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 06:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 06:01	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 06:01	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 06:01	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 06:01	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 06:01	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 06:01	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 06:01	75-00-3	
Chloroform	3.0	ug/L	0.50	1		10/27/20 06:01	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 06:01	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 06:01	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 06:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 06:01	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 06:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 06:01	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 06:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 06:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 06:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 06:01	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 06:01	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 06:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 06:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 06:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 06:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 06:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 06:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 06:01	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 06:01	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-57	Lab ID: 92501860012	Collected: 10/22/20 13:50	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 06:01	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 06:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 06:01	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 06:01	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 06:01	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 06:01	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 06:01	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 06:01	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 06:01	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 06:01	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 06:01	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 06:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 06:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 06:01	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 06:01	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 06:01	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 06:01	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 06:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 06:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 06:01	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 06:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 06:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 06:01	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 06:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 06:01	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 06:01	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 06:01	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 06:01	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		10/27/20 06:01	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/27/20 06:01	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/27/20 06:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-58	Lab ID: 92501860013	Collected: 10/22/20 10:25	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/31/20 06:18	10/31/20 06:18		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/31/20 06:18	10/31/20 06:18		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/31/20 06:18	10/31/20 06:18	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/31/20 06:18	10/31/20 06:18	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	92.0	%	70.0-130	1	10/31/20 06:18	10/31/20 06:18	615-59-8FID	
2,5-Dibromotoluene (PID)	98.8	%	70.0-130	1	10/31/20 06:18	10/31/20 06:18	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:28	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/27/20 06:18	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 06:18	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 06:18	74-97-5	
Bromodichloromethane	1.8	ug/L	0.50	1		10/27/20 06:18	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 06:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 06:18	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 06:18	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 06:18	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 06:18	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 06:18	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 06:18	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 06:18	75-00-3	
Chloroform	9.5	ug/L	0.50	1		10/27/20 06:18	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 06:18	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 06:18	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 06:18	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 06:18	96-12-8	
Dibromochloromethane	0.50	ug/L	0.50	1		10/27/20 06:18	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 06:18	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 06:18	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 06:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 06:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 06:18	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 06:18	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 06:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 06:18	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 06:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 06:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 06:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 06:18	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 06:18	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 06:18	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: MW-58	Lab ID: 92501860013	Collected: 10/22/20 10:25	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 06:18	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 06:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 06:18	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 06:18	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 06:18	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 06:18	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 06:18	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 06:18	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 06:18	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 06:18	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 06:18	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 06:18	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 06:18	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 06:18	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 06:18	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 06:18	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 06:18	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 06:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 06:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 06:18	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 06:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 06:18	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 06:18	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 06:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 06:18	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 06:18	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 06:18	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 06:18	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/27/20 06:18	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/27/20 06:18	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/27/20 06:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: DUP-2-20201022 **Lab ID: 92501860014** Collected: 10/22/20 00:00 Received: 10/22/20 17:02 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	1030	ug/L	100	1	10/31/20 06:51	10/31/20 06:51		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/31/20 06:51	10/31/20 06:51		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/31/20 06:51	10/31/20 06:51	TPHC9C10A	
Total VPH	1060	ug/L	100	1	10/31/20 06:51	10/31/20 06:51	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	90.4	%	70.0-130	1	10/31/20 06:51	10/31/20 06:51	615-59-8FID	
2,5-Dibromotoluene (PID)	99.1	%	70.0-130	1	10/31/20 06:51	10/31/20 06:51	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	27.4	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:38	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	37.1	ug/L	0.50	1		10/27/20 06:36	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 06:36	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 06:36	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 06:36	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 06:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 06:36	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 06:36	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 06:36	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 06:36	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 06:36	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 06:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 06:36	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/27/20 06:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 06:36	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 06:36	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 06:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 06:36	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 06:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 06:36	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 06:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 06:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 06:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 06:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 06:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 06:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 06:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 06:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 06:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 06:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 06:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 06:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 06:36	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: DUP-2-20201022	Lab ID: 92501860014	Collected: 10/22/20 00:00	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 06:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 06:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 06:36	10061-02-6	
Diisopropyl ether	17.2	ug/L	0.50	1		10/27/20 06:36	108-20-3	
Ethylbenzene	3.6	ug/L	0.50	1		10/27/20 06:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 06:36	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 06:36	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 06:36	75-09-2	
Methyl-tert-butyl ether	5.8	ug/L	0.50	1		10/27/20 06:36	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 06:36	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 06:36	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 06:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 06:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 06:36	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 06:36	127-18-4	
Toluene	58.7	ug/L	0.50	1		10/27/20 06:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 06:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 06:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 06:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 06:36	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 06:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 06:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 06:36	96-18-4	
1,2,4-Trimethylbenzene	1.5	ug/L	0.50	1		10/27/20 06:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 06:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 06:36	75-01-4	
m&p-Xylene	10.7	ug/L	1.0	1		10/27/20 06:36	179601-23-1	
o-Xylene	6.9	ug/L	0.50	1		10/27/20 06:36	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/27/20 06:36	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/27/20 06:36	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/27/20 06:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: FB-2-20201022	Lab ID: 92501860015	Collected: 10/22/20 16:00	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/31/20 03:33	10/31/20 03:33		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/31/20 03:33	10/31/20 03:33		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/31/20 03:33	10/31/20 03:33	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/31/20 03:33	10/31/20 03:33	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	91.7	%	70.0-130	1	10/31/20 03:33	10/31/20 03:33	615-59-8FID	
2,5-Dibromotoluene (PID)	97.8	%	70.0-130	1	10/31/20 03:33	10/31/20 03:33	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:41	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/27/20 00:39	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/27/20 00:39	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/27/20 00:39	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/27/20 00:39	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/27/20 00:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/27/20 00:39	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/27/20 00:39	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/27/20 00:39	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/27/20 00:39	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/27/20 00:39	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/27/20 00:39	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/27/20 00:39	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/27/20 00:39	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/27/20 00:39	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 00:39	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/27/20 00:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/27/20 00:39	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/27/20 00:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/27/20 00:39	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/27/20 00:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 00:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 00:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/27/20 00:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/27/20 00:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/27/20 00:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/27/20 00:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/27/20 00:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 00:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/27/20 00:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 00:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/27/20 00:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/27/20 00:39	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Sample: FB-2-20201022	Lab ID: 92501860015	Collected: 10/22/20 16:00	Received: 10/22/20 17:02	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/27/20 00:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 00:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/27/20 00:39	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/27/20 00:39	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/27/20 00:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/27/20 00:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/27/20 00:39	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/27/20 00:39	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/27/20 00:39	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/27/20 00:39	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/27/20 00:39	103-65-1	
Styrene	ND	ug/L	0.50	1		10/27/20 00:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 00:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/27/20 00:39	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/27/20 00:39	127-18-4	
Toluene	ND	ug/L	0.50	1		10/27/20 00:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 00:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/27/20 00:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/27/20 00:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/27/20 00:39	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/27/20 00:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/27/20 00:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/27/20 00:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 00:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/27/20 00:39	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/27/20 00:39	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/27/20 00:39	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/27/20 00:39	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/27/20 00:39	17060-07-0	
4-Bromofluorobenzene (S)	94	%	70-130	1		10/27/20 00:39	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/27/20 00:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

QC Batch:	1566913	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92501860001, 92501860002, 92501860003, 92501860004, 92501860005, 92501860006, 92501860007, 92501860008

METHOD BLANK:	R3587451-3	Matrix:	Water
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Associated Lab Samples: 92501860001, 92501860002, 92501860003, 92501860004, 92501860005, 92501860006, 92501860007, 92501860008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/29/20 14:59	
Aliphatic (C09-C12)	ug/L	ND	100	10/29/20 14:59	
Aromatic (C09-C10), Unadjusted	ug/L	ND	100	10/29/20 14:59	
Total VPH	ug/L	ND	100	10/29/20 14:59	
2,5-Dibromotoluene (FID)	%	83.1	70.0-130	10/29/20 14:59	
2,5-Dibromotoluene (PID)	%	88.6	70.0-130	10/29/20 14:59	

Parameter	Units	R3587451-1		R3587451-2		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	% Rec				
Aliphatic (C05-C08)	ug/L	1200	1040	1060	86.7	88.3	70.0-130	1.90	25
Aliphatic (C09-C12)	ug/L	1400	1380	1400	98.6	100	70.0-130	1.44	25
Aromatic (C09-C10), Unadjusted	ug/L	200	216	220	108	110	70.0-130	1.83	25
Total VPH	ug/L	2800	2640	2680	94.3	95.7	70.0-130	1.50	25
2,5-Dibromotoluene (FID)	%				88.5	90.1	70.0-130		
2,5-Dibromotoluene (PID)	%				95.2	96.5	70.0-130		

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

QC Batch:	1568240	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92501860009, 92501860010, 92501860011, 92501860012, 92501860013, 92501860014, 92501860015

METHOD BLANK: R3587884-3 Matrix: Water

Associated Lab Samples: 92501860009, 92501860010, 92501860011, 92501860012, 92501860013, 92501860014, 92501860015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/31/20 03:00	
Aliphatic (C09-C12)	ug/L	ND	100	10/31/20 03:00	
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/31/20 03:00	
Total VPH	ug/L	ND	100	10/31/20 03:00	
2,5-Dibromotoluene (FID)	%	86.6	70.0-130	10/31/20 03:00	
2,5-Dibromotoluene (PID)	%	92.3	70.0-130	10/31/20 03:00	

LABORATORY CONTROL SAMPLE & LCSD: R3587884-1 R3587884-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1120	1040	93.3	86.7	70.0-130	7.41	25	
Aliphatic (C09-C12)	ug/L	1400	1320	1250	94.3	89.3	70.0-130	5.45	25	
Aromatic (C09-C10),Unadjusted	ug/L	200	212	201	106	101	70.0-130	5.33	25	
Total VPH	ug/L	2800	2650	2490	94.6	88.9	70.0-130	6.23	25	
2,5-Dibromotoluene (FID)	%				89.4	88.1	70.0-130			
2,5-Dibromotoluene (PID)	%				96.9	95.4	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)
Pace Project No.: 92501860

QC Batch: 1568294	Analysis Method: MADEP VPH
QC Batch Method: MADEPV	Analysis Description: MADEPV
	Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501860001

METHOD BLANK: R3587687-3 Matrix: Water
Associated Lab Samples: 92501860001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	ND	100	10/30/20 11:15	
2,5-Dibromotoluene (FID)	%	86.5	70.0-130	10/30/20 11:15	
2,5-Dibromotoluene (PID)	%	92.7	70.0-130	10/30/20 11:15	

LABORATORY CONTROL SAMPLE & LCSD: R3587687-1 R3587687-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aromatic (C09-C10),Unadjusted	ug/L	200	206	206	103	103	70.0-130	0.00	25	
2,5-Dibromotoluene (FID)	%				87.9	91.1	70.0-130			
2,5-Dibromotoluene (PID)	%				97.6	101	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)
Pace Project No.: 92501860

QC Batch: 575518 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92501860001, 92501860002, 92501860003, 92501860004

METHOD BLANK: 3046797 Matrix: Water
Associated Lab Samples: 92501860001, 92501860002, 92501860003, 92501860004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/26/20 13:50	

LABORATORY CONTROL SAMPLE: 3046798

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	468	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3046799 3046800

Parameter	Units	92501615001		3046800		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Lead	ug/L	5.1	500	500	500	99	100	75-125	1	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

QC Batch:	576183	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville
Associated Lab Samples:	92501860005, 92501860006, 92501860007, 92501860008, 92501860009, 92501860010, 92501860011, 92501860012, 92501860013, 92501860014, 92501860015		

METHOD BLANK:	3049579	Matrix:	Water
Associated Lab Samples:	92501860005, 92501860006, 92501860007, 92501860008, 92501860009, 92501860010, 92501860011, 92501860012, 92501860013, 92501860014, 92501860015		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/28/20 23:34	

LABORATORY CONTROL SAMPLE: 3049580						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	494	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3049581											3049582	
Parameter	92501860005 Units	92501860005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual	
Lead	ug/L	ND	500	500	531	504	105	100	75-125	5		

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)
Pace Project No.: 92501860

QC Batch: 575715 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501860001, 92501860002

METHOD BLANK: 3047449 Matrix: Water

Associated Lab Samples: 92501860001, 92501860002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/26/20 12:44	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/26/20 12:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/26/20 12:44	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/26/20 12:44	
1,1-Dichloroethane	ug/L	ND	0.50	10/26/20 12:44	
1,1-Dichloroethene	ug/L	ND	0.50	10/26/20 12:44	
1,1-Dichloropropene	ug/L	ND	0.50	10/26/20 12:44	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/26/20 12:44	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/26/20 12:44	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/26/20 12:44	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/26/20 12:44	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/26/20 12:44	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/26/20 12:44	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/26/20 12:44	
1,2-Dichloroethane	ug/L	ND	0.50	10/26/20 12:44	
1,2-Dichloropropane	ug/L	ND	0.50	10/26/20 12:44	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/26/20 12:44	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/26/20 12:44	
1,3-Dichloropropane	ug/L	ND	0.50	10/26/20 12:44	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/26/20 12:44	
2,2-Dichloropropane	ug/L	ND	0.50	10/26/20 12:44	
2-Chlorotoluene	ug/L	ND	0.50	10/26/20 12:44	
4-Chlorotoluene	ug/L	ND	0.50	10/26/20 12:44	
Benzene	ug/L	ND	0.50	10/26/20 12:44	
Bromobenzene	ug/L	ND	0.50	10/26/20 12:44	
Bromochloromethane	ug/L	ND	0.50	10/26/20 12:44	
Bromodichloromethane	ug/L	ND	0.50	10/26/20 12:44	
Bromoform	ug/L	ND	0.50	10/26/20 12:44	
Bromomethane	ug/L	ND	5.0	10/26/20 12:44	
Carbon tetrachloride	ug/L	ND	0.50	10/26/20 12:44	
Chlorobenzene	ug/L	ND	0.50	10/26/20 12:44	
Chloroethane	ug/L	ND	1.0	10/26/20 12:44	
Chloroform	ug/L	ND	0.50	10/26/20 12:44	
Chloromethane	ug/L	ND	1.0	10/26/20 12:44	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/26/20 12:44	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/26/20 12:44	
Dibromochloromethane	ug/L	ND	0.50	10/26/20 12:44	
Dibromomethane	ug/L	ND	0.50	10/26/20 12:44	
Dichlorodifluoromethane	ug/L	ND	0.50	10/26/20 12:44	
Diisopropyl ether	ug/L	ND	0.50	10/26/20 12:44	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

METHOD BLANK: 3047449

Matrix: Water

Associated Lab Samples: 92501860001, 92501860002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/26/20 12:44	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/26/20 12:44	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/26/20 12:44	
m&p-Xylene	ug/L	ND	1.0	10/26/20 12:44	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/26/20 12:44	
Methylene Chloride	ug/L	ND	2.0	10/26/20 12:44	
n-Butylbenzene	ug/L	ND	0.50	10/26/20 12:44	
n-Propylbenzene	ug/L	ND	0.50	10/26/20 12:44	
Naphthalene	ug/L	ND	2.0	10/26/20 12:44	
o-Xylene	ug/L	ND	0.50	10/26/20 12:44	
sec-Butylbenzene	ug/L	ND	0.50	10/26/20 12:44	
Styrene	ug/L	ND	0.50	10/26/20 12:44	
tert-Butylbenzene	ug/L	ND	0.50	10/26/20 12:44	
Tetrachloroethene	ug/L	ND	0.50	10/26/20 12:44	
Toluene	ug/L	ND	0.50	10/26/20 12:44	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/26/20 12:44	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/26/20 12:44	
Trichloroethene	ug/L	ND	0.50	10/26/20 12:44	
Trichlorofluoromethane	ug/L	ND	1.0	10/26/20 12:44	
Vinyl chloride	ug/L	ND	1.0	10/26/20 12:44	
1,2-Dichloroethane-d4 (S)	%	103	70-130	10/26/20 12:44	
4-Bromofluorobenzene (S)	%	95	70-130	10/26/20 12:44	
Toluene-d8 (S)	%	99	70-130	10/26/20 12:44	

LABORATORY CONTROL SAMPLE: 3047450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.8	110	60-140	
1,1,1-Trichloroethane	ug/L	50	53.9	108	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.8	102	60-140	
1,1,2-Trichloroethane	ug/L	50	50.8	102	60-140	
1,1-Dichloroethane	ug/L	50	52.2	104	60-140	
1,1-Dichloroethene	ug/L	50	58.2	116	60-140	
1,1-Dichloropropene	ug/L	50	54.0	108	60-140	
1,2,3-Trichlorobenzene	ug/L	50	57.2	114	60-140	
1,2,3-Trichloropropane	ug/L	50	50.4	101	60-140	
1,2,4-Trichlorobenzene	ug/L	50	58.5	117	60-140	
1,2,4-Trimethylbenzene	ug/L	50	54.5	109	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	58.4	117	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.3	107	60-140	
1,2-Dichlorobenzene	ug/L	50	55.0	110	60-140	
1,2-Dichloroethane	ug/L	50	46.8	94	60-140	
1,2-Dichloropropane	ug/L	50	53.2	106	60-140	
1,3,5-Trimethylbenzene	ug/L	50	54.4	109	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

LABORATORY CONTROL SAMPLE: 3047450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	55.1	110	60-140	
1,3-Dichloropropane	ug/L	50	53.5	107	60-140	
1,4-Dichlorobenzene	ug/L	50	54.7	109	60-140	
2,2-Dichloropropane	ug/L	50	54.8	110	60-140	
2-Chlorotoluene	ug/L	50	55.2	110	60-140	
4-Chlorotoluene	ug/L	50	54.8	110	60-140	
Benzene	ug/L	50	51.9	104	60-140	
Bromobenzene	ug/L	50	52.7	105	60-140	
Bromochloromethane	ug/L	50	50.7	101	60-140	
Bromodichloromethane	ug/L	50	51.7	103	60-140	
Bromoform	ug/L	50	52.2	104	60-140	
Bromomethane	ug/L	50	61.9	124	60-140	
Carbon tetrachloride	ug/L	50	52.7	105	60-140	
Chlorobenzene	ug/L	50	53.4	107	60-140	
Chloroethane	ug/L	50	41.0	82	60-140	
Chloroform	ug/L	50	52.4	105	60-140	
Chloromethane	ug/L	50	47.8	96	60-140	
cis-1,2-Dichloroethene	ug/L	50	51.6	103	60-140	
cis-1,3-Dichloropropene	ug/L	50	54.0	108	60-140	
Dibromochloromethane	ug/L	50	56.6	113	60-140	
Dibromomethane	ug/L	50	52.9	106	60-140	
Dichlorodifluoromethane	ug/L	50	44.4	89	60-140	
Diisopropyl ether	ug/L	50	50.8	102	60-140	
Ethylbenzene	ug/L	50	52.1	104	60-140	
Hexachloro-1,3-butadiene	ug/L	50	57.9	116	60-140	
Isopropylbenzene (Cumene)	ug/L	50	54.7	109	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.9	102	60-140	
Methylene Chloride	ug/L	50	50.7	101	60-140	
n-Butylbenzene	ug/L	50	58.4	117	60-140	
n-Propylbenzene	ug/L	50	54.8	110	60-140	
Naphthalene	ug/L	50	57.5	115	60-140	
o-Xylene	ug/L	50	53.4	107	60-140	
sec-Butylbenzene	ug/L	50	55.6	111	60-140	
Styrene	ug/L	50	53.6	107	60-140	
tert-Butylbenzene	ug/L	50	47.0	94	60-140	
Tetrachloroethene	ug/L	50	53.8	108	60-140	
Toluene	ug/L	50	51.7	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	53.9	108	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	53.8	108	60-140	
Trichlorofluoromethane	ug/L	50	45.2	90	60-140	
Vinyl chloride	ug/L	50	47.5	95	60-140	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)
Pace Project No.: 92501860

Parameter	92501762001		MS	MSD	3047451		3047452		% Rec	% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1,2-Tetrachloroethane	ug/L	<5.3	250	250	248	248	99	99	60-140	0			
1,1,1-Trichloroethane	ug/L	<3.5	250	250	264	259	106	104	60-140	2			
1,1,2,2-Tetrachloroethane	ug/L	<2.4	250	250	230	234	92	94	60-140	1			
1,1,2-Trichloroethane	ug/L	<2.9	250	250	240	241	96	96	60-140	0			
1,1-Dichloroethane	ug/L	<3.0	250	250	258	254	103	102	60-140	2			
1,1-Dichloroethene	ug/L	<2.7	250	250	283	283	113	113	60-140	0			
1,1-Dichloropropene	ug/L	<4.4	250	250	263	258	105	103	60-140	2			
1,2,3-Trichlorobenzene	ug/L	<9.8	250	250	217	242	87	97	60-140	11			
1,2,3-Trichloropropane	ug/L	<3.4	250	250	238	231	95	92	60-140	3			
1,2,4-Trichlorobenzene	ug/L	<5.4	250	250	226	240	90	96	60-140	6			
1,2,4-Trimethylbenzene	ug/L	78.0	250	250	305	313	91	94	60-140	3			
1,2-Dibromo-3-chloropropane	ug/L	<4.8	250	250	239	248	96	99	60-140	4			
1,2-Dibromoethane (EDB)	ug/L	<2.9	250	250	244	248	98	99	60-140	2			
1,2-Dichlorobenzene	ug/L	<3.0	250	250	232	240	93	96	60-140	4			
1,2-Dichloroethane	ug/L	<3.3	250	250	230	219	92	87	60-140	5			
1,2-Dichloropropane	ug/L	<2.3	250	250	256	255	102	102	60-140	0			
1,3,5-Trimethylbenzene	ug/L	<2.8	250	250	274	281	110	113	60-140	3			
1,3-Dichlorobenzene	ug/L	<3.1	250	250	237	242	95	97	60-140	2			
1,3-Dichloropropane	ug/L	<4.3	250	250	258	255	103	102	60-140	1			
1,4-Dichlorobenzene	ug/L	<3.1	250	250	236	242	94	97	60-140	3			
2,2-Dichloropropane	ug/L	<3.5	250	250	240	240	96	96	60-140	0			
2-Chlorotoluene	ug/L	<2.6	250	250	257	257	103	103	60-140	0			
4-Chlorotoluene	ug/L	<2.6	250	250	240	246	96	99	60-140	3			
Benzene	ug/L	1550	250	250	1770	1810	88	103	60-140	2			
Bromobenzene	ug/L	<2.7	250	250	247	247	99	99	60-140	0			
Bromochloromethane	ug/L	<3.2	250	250	247	238	99	95	60-140	4			
Bromodichloromethane	ug/L	<2.3	250	250	243	237	97	95	60-140	2			
Bromoform	ug/L	<5.1	250	250	217	221	87	88	60-140	2			
Bromomethane	ug/L	<21.5	250	250	240	291	96	117	60-140	20			
Carbon tetrachloride	ug/L	<2.9	250	250	257	249	103	99	60-140	3			
Chlorobenzene	ug/L	<2.8	250	250	252	253	101	101	60-140	0			
Chloroethane	ug/L	<7.3	250	250	233	228	93	91	60-140	2			
Chloroform	ug/L	<4.4	250	250	252	255	101	102	60-140	1			
Chloromethane	ug/L	<5.2	250	250	251	250	100	100	60-140	0			
cis-1,2-Dichloroethene	ug/L	24.9	250	250	275	269	100	98	60-140	2			
cis-1,3-Dichloropropene	ug/L	<4.5	250	250	246	243	98	97	60-140	1			
Dibromochloromethane	ug/L	<5.0	250	250	247	253	99	101	60-140	2			
Dibromomethane	ug/L	<3.9	250	250	250	249	100	100	60-140	0			
Dichlorodifluoromethane	ug/L	<3.6	250	250	234	227	93	91	60-140	3			
Diisopropyl ether	ug/L	320	250	250	574	564	101	97	60-140	2			
Ethylbenzene	ug/L	242	250	250	492	498	100	102	60-140	1			
Hexachloro-1,3-butadiene	ug/L	<15.0	250	250	227	251	91	100	60-140	10			
Isopropylbenzene (Cumene)	ug/L	78.9	250	250	335	339	102	104	60-140	1			
m&p-Xylene	ug/L	112	500	500	607	613	99	100	60-140	1			
Methyl-tert-butyl ether	ug/L	170	250	250	417	410	98	96	60-140	2			
Methylene Chloride	ug/L	<18.8	250	250	258	251	103	100	60-140	3			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Parameter	92501762001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
n-Butylbenzene	ug/L	<4.4	250	250	249	256	100	102	60-140	3				
n-Propylbenzene	ug/L	<3.0	250	250	284	290	114	116	60-140	2				
Naphthalene	ug/L	38.3	250	250	252	277	85	95	60-140	9				
o-Xylene	ug/L	47.4	250	250	296	301	99	101	60-140	2				
sec-Butylbenzene	ug/L	<3.1	250	250	257	263	103	105	60-140	2				
Styrene	ug/L	<3.2	250	250	242	246	97	98	60-140	2				
tert-Butylbenzene	ug/L	<3.1	250	250	215	223	86	89	60-140	4				
Tetrachloroethene	ug/L	16.0	250	250	262	262	99	99	60-140	0				
Toluene	ug/L	96.6	250	250	345	341	99	98	60-140	1				
trans-1,2-Dichloroethene	ug/L	<3.2	250	250	261	256	104	102	60-140	2				
trans-1,3-Dichloropropene	ug/L	<4.9	250	250	235	234	94	93	60-140	0				
Trichloroethene	ug/L	9.6	250	250	269	263	104	101	60-140	3				
Trichlorofluoromethane	ug/L	<4.2	250	250	244	241	98	96	60-140	1				
Vinyl chloride	ug/L	<5.1	250	250	233	231	93	93	60-140	0				
1,2-Dichloroethane-d4 (S)	%						105	104	70-130					
4-Bromofluorobenzene (S)	%						98	97	70-130					
Toluene-d8 (S)	%						99	98	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)
Pace Project No.: 92501860

QC Batch: 575716 Analysis Method: SM 6200B
QC Batch Method: SM 6200B Analysis Description: 6200B MSV
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92501860003, 92501860004, 92501860005, 92501860006, 92501860007, 92501860008, 92501860009, 92501860010, 92501860011, 92501860012, 92501860013, 92501860014, 92501860015

METHOD BLANK: 3047454 Matrix: Water
Associated Lab Samples: 92501860003, 92501860004, 92501860005, 92501860006, 92501860007, 92501860008, 92501860009, 92501860010, 92501860011, 92501860012, 92501860013, 92501860014, 92501860015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/27/20 00:21	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/27/20 00:21	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/27/20 00:21	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/27/20 00:21	
1,1-Dichloroethane	ug/L	ND	0.50	10/27/20 00:21	
1,1-Dichloroethene	ug/L	ND	0.50	10/27/20 00:21	
1,1-Dichloropropene	ug/L	ND	0.50	10/27/20 00:21	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/27/20 00:21	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/27/20 00:21	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/27/20 00:21	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/27/20 00:21	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/27/20 00:21	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/27/20 00:21	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/27/20 00:21	
1,2-Dichloroethane	ug/L	ND	0.50	10/27/20 00:21	
1,2-Dichloropropane	ug/L	ND	0.50	10/27/20 00:21	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/27/20 00:21	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/27/20 00:21	
1,3-Dichloropropane	ug/L	ND	0.50	10/27/20 00:21	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/27/20 00:21	
2,2-Dichloropropane	ug/L	ND	0.50	10/27/20 00:21	
2-Chlorotoluene	ug/L	ND	0.50	10/27/20 00:21	
4-Chlorotoluene	ug/L	ND	0.50	10/27/20 00:21	
Benzene	ug/L	ND	0.50	10/27/20 00:21	
Bromobenzene	ug/L	ND	0.50	10/27/20 00:21	
Bromochloromethane	ug/L	ND	0.50	10/27/20 00:21	
Bromodichloromethane	ug/L	ND	0.50	10/27/20 00:21	
Bromoform	ug/L	ND	0.50	10/27/20 00:21	
Bromomethane	ug/L	ND	5.0	10/27/20 00:21	
Carbon tetrachloride	ug/L	ND	0.50	10/27/20 00:21	
Chlorobenzene	ug/L	ND	0.50	10/27/20 00:21	
Chloroethane	ug/L	ND	1.0	10/27/20 00:21	
Chloroform	ug/L	ND	0.50	10/27/20 00:21	
Chloromethane	ug/L	ND	1.0	10/27/20 00:21	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/27/20 00:21	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/27/20 00:21	
Dibromochloromethane	ug/L	ND	0.50	10/27/20 00:21	
Dibromomethane	ug/L	ND	0.50	10/27/20 00:21	
Dichlorodifluoromethane	ug/L	ND	0.50	10/27/20 00:21	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

METHOD BLANK: 3047454

Matrix: Water

Associated Lab Samples: 92501860003, 92501860004, 92501860005, 92501860006, 92501860007, 92501860008, 92501860009, 92501860010, 92501860011, 92501860012, 92501860013, 92501860014, 92501860015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	0.50	10/27/20 00:21	
Ethylbenzene	ug/L	ND	0.50	10/27/20 00:21	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/27/20 00:21	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/27/20 00:21	
m&p-Xylene	ug/L	ND	1.0	10/27/20 00:21	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/27/20 00:21	
Methylene Chloride	ug/L	ND	2.0	10/27/20 00:21	
n-Butylbenzene	ug/L	ND	0.50	10/27/20 00:21	
n-Propylbenzene	ug/L	ND	0.50	10/27/20 00:21	
Naphthalene	ug/L	ND	2.0	10/27/20 00:21	
o-Xylene	ug/L	ND	0.50	10/27/20 00:21	
sec-Butylbenzene	ug/L	ND	0.50	10/27/20 00:21	
Styrene	ug/L	ND	0.50	10/27/20 00:21	
tert-Butylbenzene	ug/L	ND	0.50	10/27/20 00:21	
Tetrachloroethene	ug/L	ND	0.50	10/27/20 00:21	
Toluene	ug/L	ND	0.50	10/27/20 00:21	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/27/20 00:21	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/27/20 00:21	
Trichloroethene	ug/L	ND	0.50	10/27/20 00:21	
Trichlorofluoromethane	ug/L	ND	1.0	10/27/20 00:21	
Vinyl chloride	ug/L	ND	1.0	10/27/20 00:21	
1,2-Dichloroethane-d4 (S)	%	96	70-130	10/27/20 00:21	
4-Bromofluorobenzene (S)	%	95	70-130	10/27/20 00:21	
Toluene-d8 (S)	%	100	70-130	10/27/20 00:21	

LABORATORY CONTROL SAMPLE: 3047455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	52.9	106	60-140	
1,1,1-Trichloroethane	ug/L	50	50.7	101	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	50.1	100	60-140	
1,1,2-Trichloroethane	ug/L	50	50.5	101	60-140	
1,1-Dichloroethane	ug/L	50	50.0	100	60-140	
1,1-Dichloroethene	ug/L	50	52.4	105	60-140	
1,1-Dichloropropene	ug/L	50	50.4	101	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.1	106	60-140	
1,2,3-Trichloropropane	ug/L	50	50.4	101	60-140	
1,2,4-Trichlorobenzene	ug/L	50	54.9	110	60-140	
1,2,4-Trimethylbenzene	ug/L	50	50.6	101	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	55.9	112	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.0	104	60-140	
1,2-Dichlorobenzene	ug/L	50	51.7	103	60-140	
1,2-Dichloroethane	ug/L	50	44.9	90	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

LABORATORY CONTROL SAMPLE: 3047455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	51.3	103	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.9	104	60-140	
1,3-Dichlorobenzene	ug/L	50	52.5	105	60-140	
1,3-Dichloropropane	ug/L	50	52.5	105	60-140	
1,4-Dichlorobenzene	ug/L	50	51.8	104	60-140	
2,2-Dichloropropane	ug/L	50	49.7	99	60-140	
2-Chlorotoluene	ug/L	50	52.5	105	60-140	
4-Chlorotoluene	ug/L	50	50.9	102	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	51.0	102	60-140	
Bromochloromethane	ug/L	50	48.9	98	60-140	
Bromodichloromethane	ug/L	50	49.9	100	60-140	
Bromoform	ug/L	50	50.4	101	60-140	
Bromomethane	ug/L	50	60.3	121	60-140	
Carbon tetrachloride	ug/L	50	49.0	98	60-140	
Chlorobenzene	ug/L	50	51.0	102	60-140	
Chloroethane	ug/L	50	40.0	80	60-140	
Chloroform	ug/L	50	49.6	99	60-140	
Chloromethane	ug/L	50	44.7	89	60-140	
cis-1,2-Dichloroethene	ug/L	50	48.6	97	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.0	104	60-140	
Dibromochloromethane	ug/L	50	53.9	108	60-140	
Dibromomethane	ug/L	50	52.4	105	60-140	
Dichlorodifluoromethane	ug/L	50	39.9	80	60-140	
Diisopropyl ether	ug/L	50	48.7	97	60-140	
Ethylbenzene	ug/L	50	49.7	99	60-140	
Hexachloro-1,3-butadiene	ug/L	50	52.2	104	60-140	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	60-140	
m&p-Xylene	ug/L	100	100	100	60-140	
Methyl-tert-butyl ether	ug/L	50	49.1	98	60-140	
Methylene Chloride	ug/L	50	49.8	100	60-140	
n-Butylbenzene	ug/L	50	53.4	107	60-140	
n-Propylbenzene	ug/L	50	51.8	104	60-140	
Naphthalene	ug/L	50	55.4	111	60-140	
o-Xylene	ug/L	50	50.5	101	60-140	
sec-Butylbenzene	ug/L	50	51.6	103	60-140	
Styrene	ug/L	50	51.8	104	60-140	
tert-Butylbenzene	ug/L	50	44.2	88	60-140	
Tetrachloroethene	ug/L	50	50.3	101	60-140	
Toluene	ug/L	50	49.9	100	60-140	
trans-1,2-Dichloroethene	ug/L	50	49.9	100	60-140	
trans-1,3-Dichloropropene	ug/L	50	50.8	102	60-140	
Trichloroethene	ug/L	50	51.0	102	60-140	
Trichlorofluoromethane	ug/L	50	42.2	84	60-140	
Vinyl chloride	ug/L	50	43.6	87	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

LABORATORY CONTROL SAMPLE: 3047455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3047456 3047457

Parameter	92501860003		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result									
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.9	21.4	109	107	60-140	2	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.8	21.5	109	107	60-140	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.2	19.8	101	99	60-140	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.5	20.4	102	102	60-140	0	
1,1-Dichloroethane	ug/L	ND	20	20	21.5	21.2	107	106	60-140	2	
1,1-Dichloropropene	ug/L	ND	20	20	23.3	23.3	117	116	60-140	0	
1,1-Dichloropropene	ug/L	ND	20	20	21.7	21.6	109	108	60-140	1	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.0	20.7	110	104	60-140	6	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.7	20.7	99	104	60-140	5	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.9	21.3	109	106	60-140	3	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	21.3	20.6	107	103	60-140	4	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.6	21.6	108	108	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.5	20.5	108	103	60-140	5	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.6	20.2	103	101	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	18.9	18.4	95	92	60-140	3	
1,2-Dichloropropane	ug/L	ND	20	20	21.4	21.1	107	105	60-140	1	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	22.1	21.5	110	108	60-140	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	21.5	20.9	107	104	60-140	3	
1,3-Dichloropropane	ug/L	ND	20	20	21.8	21.2	109	106	60-140	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	21.3	20.5	106	102	60-140	4	
2,2-Dichloropropane	ug/L	ND	20	20	22.4	21.5	112	107	60-140	4	
2-Chlorotoluene	ug/L	ND	20	20	22.0	21.3	110	107	60-140	3	
4-Chlorotoluene	ug/L	ND	20	20	21.3	20.6	106	103	60-140	3	
Benzene	ug/L	ND	20	20	21.0	21.2	105	106	60-140	1	
Bromobenzene	ug/L	ND	20	20	21.3	21.0	106	105	60-140	1	
Bromochloromethane	ug/L	ND	20	20	20.1	20.3	101	102	60-140	1	
Bromodichloromethane	ug/L	ND	20	20	20.2	20.5	101	103	60-140	2	
Bromoform	ug/L	ND	20	20	19.6	18.9	98	94	60-140	4	
Bromomethane	ug/L	ND	20	20	27.6	28.6	138	143	60-140	4	M1
Carbon tetrachloride	ug/L	ND	20	20	21.5	21.3	107	106	60-140	1	
Chlorobenzene	ug/L	ND	20	20	21.7	21.2	108	106	60-140	2	
Chloroethane	ug/L	ND	20	20	19.4	19.5	97	98	60-140	1	
Chloroform	ug/L	ND	20	20	20.7	21.5	104	107	60-140	3	
Chloromethane	ug/L	ND	20	20	20.0	19.5	100	98	60-140	2	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.5	20.8	102	104	60-140	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.5	21.8	108	109	60-140	1	
Dibromochloromethane	ug/L	ND	20	20	21.3	21.4	107	107	60-140	0	
Dibromomethane	ug/L	ND	20	20	21.1	21.2	106	106	60-140	0	
Dichlorodifluoromethane	ug/L	ND	20	20	18.9	18.9	94	95	60-140	0	

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

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/22)
Pace Project No.: 92501860

Parameter	92501860003		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec						
Diisopropyl ether	ug/L	ND	20	20	20.1	20.1	101	100	60-140	0				
Ethylbenzene	ug/L	ND	20	20	21.5	20.9	107	105	60-140	2				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	23.3	22.2	117	111	60-140	5				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	22.2	21.7	111	108	60-140	2				
m&p-Xylene	ug/L	ND	40	40	43.0	42.3	108	106	60-140	2				
Methyl-tert-butyl ether	ug/L	ND	20	20	20.2	20.0	101	100	60-140	1				
Methylene Chloride	ug/L	ND	20	20	20.1	20.1	100	101	60-140	0				
n-Butylbenzene	ug/L	ND	20	20	22.9	22.3	114	111	60-140	3				
n-Propylbenzene	ug/L	ND	20	20	22.6	21.8	113	109	60-140	4				
Naphthalene	ug/L	ND	20	20	21.7	20.6	106	101	60-140	5				
o-Xylene	ug/L	ND	20	20	21.8	20.6	109	103	60-140	5				
sec-Butylbenzene	ug/L	ND	20	20	22.6	21.9	113	109	60-140	3				
Styrene	ug/L	ND	20	20	21.3	20.5	106	103	60-140	4				
tert-Butylbenzene	ug/L	ND	20	20	19.3	18.7	96	94	60-140	3				
Tetrachloroethene	ug/L	ND	20	20	21.9	21.3	110	107	60-140	3				
Toluene	ug/L	ND	20	20	20.9	20.9	103	103	60-140	0				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.3	21.7	112	109	60-140	3				
trans-1,3-Dichloropropene	ug/L	ND	20	20	20.7	20.8	104	104	60-140	0				
Trichloroethene	ug/L	ND	20	20	21.4	21.8	107	109	60-140	2				
Trichlorofluoromethane	ug/L	ND	20	20	20.3	19.9	102	100	60-140	2				
Vinyl chloride	ug/L	ND	20	20	19.4	19.0	97	95	60-140	2				
1,2-Dichloroethane-d4 (S)	%						104	99	70-130					
4-Bromofluorobenzene (S)	%						97	98	70-130					
Toluene-d8 (S)	%						99	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

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QUALIFIERS

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline ER (10/22)

Pace Project No.: 92501860

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501860001	MW-3	MADEPV	1566913	MADEP VPH	1566913
92501860001	MW-3	MADEPV	1568294	MADEP VPH	1568294
92501860002	MW-22	MADEPV	1566913	MADEP VPH	1566913
92501860003	MW-27	MADEPV	1566913	MADEP VPH	1566913
92501860004	MW-29	MADEPV	1566913	MADEP VPH	1566913
92501860005	MW-32	MADEPV	1566913	MADEP VPH	1566913
92501860006	MW-33	MADEPV	1566913	MADEP VPH	1566913
92501860007	MW-34	MADEPV	1566913	MADEP VPH	1566913
92501860008	MW-48	MADEPV	1566913	MADEP VPH	1566913
92501860009	MW-53	MADEPV	1568240	MADEP VPH	1568240
92501860010	MW-54	MADEPV	1568240	MADEP VPH	1568240
92501860011	MW-56	MADEPV	1568240	MADEP VPH	1568240
92501860012	MW-57	MADEPV	1568240	MADEP VPH	1568240
92501860013	MW-58	MADEPV	1568240	MADEP VPH	1568240
92501860014	DUP-2-20201022	MADEPV	1568240	MADEP VPH	1568240
92501860015	FB-2-20201022	MADEPV	1568240	MADEP VPH	1568240
92501860001	MW-3	EPA 3010A	575518	EPA 6010D	575529
92501860002	MW-22	EPA 3010A	575518	EPA 6010D	575529
92501860003	MW-27	EPA 3010A	575518	EPA 6010D	575529
92501860004	MW-29	EPA 3010A	575518	EPA 6010D	575529
92501860005	MW-32	EPA 3010A	576183	EPA 6010D	576204
92501860006	MW-33	EPA 3010A	576183	EPA 6010D	576204
92501860007	MW-34	EPA 3010A	576183	EPA 6010D	576204
92501860008	MW-48	EPA 3010A	576183	EPA 6010D	576204
92501860009	MW-53	EPA 3010A	576183	EPA 6010D	576204
92501860010	MW-54	EPA 3010A	576183	EPA 6010D	576204
92501860011	MW-56	EPA 3010A	576183	EPA 6010D	576204
92501860012	MW-57	EPA 3010A	576183	EPA 6010D	576204
92501860013	MW-58	EPA 3010A	576183	EPA 6010D	576204
92501860014	DUP-2-20201022	EPA 3010A	576183	EPA 6010D	576204
92501860015	FB-2-20201022	EPA 3010A	576183	EPA 6010D	576204
92501860001	MW-3	SM 6200B	575715		
92501860002	MW-22	SM 6200B	575715		
92501860003	MW-27	SM 6200B	575716		
92501860004	MW-29	SM 6200B	575716		
92501860005	MW-32	SM 6200B	575716		
92501860006	MW-33	SM 6200B	575716		
92501860007	MW-34	SM 6200B	575716		
92501860008	MW-48	SM 6200B	575716		
92501860009	MW-53	SM 6200B	575716		
92501860010	MW-54	SM 6200B	575716		
92501860011	MW-56	SM 6200B	575716		
92501860012	MW-57	SM 6200B	575716		
92501860013	MW-58	SM 6200B	575716		
92501860014	DUP-2-20201022	SM 6200B	575716		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline ER (10/22)
Pace Project No.: 92501860

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501860015	FB-2-20201022	SM 6200B	575716		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville

Sample Condition Upon Receipt

Client Name: AECOM

Project # **WO# : 92501860**

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: EAH/10/23/20

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 92T061 Type of Ice: Wet Blue None

Cooler Temp (°C): 0.6, 1.8 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): -0.6, 1.8

Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? Yes No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Trip Blanks are on the COC but were not received.

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Advised Andy that we did not receive TBs.

Person contacted: Andy W. Date/Time: 10/23/20

Project Manager SCURF Review: NMG Date: 10/23/20

Project Manager SRF Review: NMG Date: 10/23/20

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project **WO# : 92501860**

PM: NMG Due Date: 10/29/20

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

CLIENT: 92-RECOM CHA

**Bottom half of box is to list number of bottle

PG1

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																7												
2																7												
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11																7												
12																7												

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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).

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project **W0# : 92501860**

PM: NMG Due Date: 10/29/20

CLIENT: 92-AECOM CHA

PG 2

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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12																													

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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.

November 02, 2020

Andrew Wreschnig
AECOM
6000 Fairview Road
Suite 200
Charlotte, NC 28210

RE: Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

Dear Andrew Wreschnig:

Enclosed are the analytical results for sample(s) received by the laboratory on October 23, 2020. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Jeff Morrison, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification #: 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification #: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services Charlotte

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92501960001	MW-7	MADEP VPH	AV	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960002	MW-18	MADEP VPH	AV	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960003	MW-20	MADEP VPH	AV	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960004	MW-25	MADEP VPH	AV	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960005	MW-38	MADEP VPH	AV	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960006	MW-41	MADEP VPH	AV	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960007	MW-43	MADEP VPH	AV	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960008	MW-52	MADEP VPH	AV	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960009	MW-55	MADEP VPH	ACG, CAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960010	DUP-3-20201023	MADEP VPH	CAH	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960011	FB-3-20201023	MADEP VPH	AV	6	PAN
		EPA 6010D	SH1	1	PASI-A
		SM 6200B	SAS	63	PASI-C
92501960012	TRIP BLANK	SM 6200B	SAS	63	PASI-C
92501960013	TRIP BLANK	SM 6200B	SAS	63	PASI-C

PAN = Pace National - Mt. Juliet

PASI-A = Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-7	Lab ID: 92501960001	Collected: 10/23/20 09:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/28/20 05:42	10/28/20 05:42		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/28/20 05:42	10/28/20 05:42		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/28/20 05:42	10/28/20 05:42	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/28/20 05:42	10/28/20 05:42	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.2	%	70.0-130	1	10/28/20 05:42	10/28/20 05:42	615-59-8FID	
2,5-Dibromotoluene (PID)	81.3	%	70.0-130	1	10/28/20 05:42	10/28/20 05:42	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	73.1	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:44	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/28/20 01:57	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 01:57	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 01:57	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 01:57	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 01:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 01:57	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 01:57	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 01:57	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 01:57	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 01:57	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 01:57	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 01:57	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/28/20 01:57	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 01:57	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 01:57	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 01:57	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 01:57	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 01:57	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 01:57	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 01:57	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 01:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 01:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 01:57	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 01:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 01:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 01:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 01:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 01:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 01:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 01:57	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 01:57	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 01:57	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-7	Lab ID: 92501960001	Collected: 10/23/20 09:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 01:57	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 01:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 01:57	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/28/20 01:57	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/28/20 01:57	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 01:57	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 01:57	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 01:57	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/20 01:57	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 01:57	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 01:57	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 01:57	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 01:57	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 01:57	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 01:57	127-18-4	
Toluene	1.0	ug/L	0.50	1		10/28/20 01:57	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 01:57	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 01:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 01:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 01:57	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 01:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 01:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 01:57	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 01:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 01:57	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 01:57	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/28/20 01:57	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/20 01:57	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/28/20 01:57	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/28/20 01:57	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/28/20 01:57	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

Sample: MW-18	Lab ID: 92501960002	Collected: 10/23/20 10:30	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/28/20 06:15	10/28/20 06:15		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/28/20 06:15	10/28/20 06:15		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/28/20 06:15	10/28/20 06:15	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/28/20 06:15	10/28/20 06:15	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.7	%	70.0-130	1	10/28/20 06:15	10/28/20 06:15	615-59-8FID	
2,5-Dibromotoluene (PID)	81.6	%	70.0-130	1	10/28/20 06:15	10/28/20 06:15	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	7.8	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:48	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/28/20 02:15	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 02:15	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 02:15	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 02:15	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 02:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 02:15	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 02:15	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 02:15	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 02:15	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 02:15	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 02:15	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 02:15	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/28/20 02:15	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 02:15	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 02:15	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 02:15	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 02:15	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 02:15	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 02:15	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 02:15	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 02:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 02:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 02:15	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 02:15	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 02:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 02:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 02:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 02:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 02:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 02:15	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 02:15	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 02:15	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-18	Lab ID: 92501960002	Collected: 10/23/20 10:30	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 02:15	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 02:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 02:15	10061-02-6	
Diisopropyl ether	5.0	ug/L	0.50	1		10/28/20 02:15	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/28/20 02:15	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 02:15	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 02:15	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 02:15	75-09-2	
Methyl-tert-butyl ether	1.4	ug/L	0.50	1		10/28/20 02:15	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 02:15	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 02:15	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 02:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 02:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 02:15	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 02:15	127-18-4	
Toluene	ND	ug/L	0.50	1		10/28/20 02:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 02:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 02:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 02:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 02:15	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 02:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 02:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 02:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 02:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 02:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 02:15	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/28/20 02:15	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/20 02:15	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		10/28/20 02:15	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/28/20 02:15	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/28/20 02:15	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-20	Lab ID: 92501960003	Collected: 10/23/20 11:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/28/20 06:48	10/28/20 06:48		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/28/20 06:48	10/28/20 06:48		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/28/20 06:48	10/28/20 06:48	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/28/20 06:48	10/28/20 06:48	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.9	%	70.0-130	1	10/28/20 06:48	10/28/20 06:48	615-59-8FID	
2,5-Dibromotoluene (PID)	81.9	%	70.0-130	1	10/28/20 06:48	10/28/20 06:48	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	12.5	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:51	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/28/20 02:33	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 02:33	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 02:33	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 02:33	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 02:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 02:33	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 02:33	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 02:33	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 02:33	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 02:33	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 02:33	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 02:33	75-00-3	
Chloroform	0.57	ug/L	0.50	1		10/28/20 02:33	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 02:33	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 02:33	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 02:33	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 02:33	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 02:33	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 02:33	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 02:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 02:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 02:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 02:33	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 02:33	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 02:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 02:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 02:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 02:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 02:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 02:33	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 02:33	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 02:33	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-20	Lab ID: 92501960003	Collected: 10/23/20 11:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 02:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 02:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 02:33	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/28/20 02:33	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/28/20 02:33	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 02:33	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 02:33	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 02:33	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/20 02:33	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 02:33	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 02:33	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 02:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 02:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 02:33	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 02:33	127-18-4	
Toluene	ND	ug/L	0.50	1		10/28/20 02:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 02:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 02:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 02:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 02:33	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 02:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 02:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 02:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 02:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 02:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 02:33	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/28/20 02:33	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/20 02:33	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/28/20 02:33	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/28/20 02:33	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/28/20 02:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-25	Lab ID: 92501960004	Collected: 10/23/20 09:55	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/28/20 07:21	10/28/20 07:21		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/28/20 07:21	10/28/20 07:21		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/28/20 07:21	10/28/20 07:21	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/28/20 07:21	10/28/20 07:21	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.4	%	70.0-130	1	10/28/20 07:21	10/28/20 07:21	615-59-8FID	
2,5-Dibromotoluene (PID)	81.3	%	70.0-130	1	10/28/20 07:21	10/28/20 07:21	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	97.9	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:54	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/28/20 02:51	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 02:51	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 02:51	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 02:51	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 02:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 02:51	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 02:51	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 02:51	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 02:51	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 02:51	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 02:51	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 02:51	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/28/20 02:51	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 02:51	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 02:51	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 02:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 02:51	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 02:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 02:51	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 02:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 02:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 02:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 02:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 02:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 02:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 02:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 02:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 02:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 02:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 02:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 02:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 02:51	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-25	Lab ID: 92501960004	Collected: 10/23/20 09:55	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 02:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 02:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 02:51	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/28/20 02:51	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/28/20 02:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 02:51	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 02:51	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 02:51	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/20 02:51	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 02:51	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 02:51	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 02:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 02:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 02:51	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 02:51	127-18-4	
Toluene	ND	ug/L	0.50	1		10/28/20 02:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 02:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 02:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 02:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 02:51	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 02:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 02:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 02:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 02:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 02:51	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 02:51	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/28/20 02:51	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/20 02:51	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/28/20 02:51	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/28/20 02:51	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/28/20 02:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

Sample: MW-38	Lab ID: 92501960005	Collected: 10/23/20 10:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	231	ug/L	100	1	10/28/20 07:55	10/28/20 07:55		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/28/20 07:55	10/28/20 07:55		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/28/20 07:55	10/28/20 07:55	TPHC9C10A	
Total VPH	291	ug/L	100	1	10/28/20 07:55	10/28/20 07:55	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	87.9	%	70.0-130	1	10/28/20 07:55	10/28/20 07:55	615-59-8FID	
2,5-Dibromotoluene (PID)	81.8	%	70.0-130	1	10/28/20 07:55	10/28/20 07:55	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/29/20 00:57	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	30.9	ug/L	0.50	1		10/28/20 03:09	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 03:09	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 03:09	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 03:09	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 03:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 03:09	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 03:09	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 03:09	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 03:09	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 03:09	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 03:09	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 03:09	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/28/20 03:09	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 03:09	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 03:09	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 03:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 03:09	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 03:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 03:09	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 03:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 03:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 03:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 03:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 03:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 03:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 03:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 03:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 03:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 03:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 03:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 03:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 03:09	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-38	Lab ID: 92501960005	Collected: 10/23/20 10:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 03:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 03:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 03:09	10061-02-6	
Diisopropyl ether	28.4	ug/L	0.50	1		10/28/20 03:09	108-20-3	
Ethylbenzene	3.4	ug/L	0.50	1		10/28/20 03:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 03:09	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 03:09	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 03:09	75-09-2	
Methyl-tert-butyl ether	12.2	ug/L	0.50	1		10/28/20 03:09	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 03:09	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 03:09	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 03:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 03:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 03:09	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 03:09	127-18-4	
Toluene	70.3	ug/L	0.50	1		10/28/20 03:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 03:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 03:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 03:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 03:09	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 03:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 03:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 03:09	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 03:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 03:09	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 03:09	75-01-4	
m&p-Xylene	6.3	ug/L	1.0	1		10/28/20 03:09	179601-23-1	
o-Xylene	6.9	ug/L	0.50	1		10/28/20 03:09	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/28/20 03:09	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/28/20 03:09	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/28/20 03:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-41	Lab ID: 92501960006	Collected: 10/23/20 11:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/28/20 08:27	10/28/20 08:27		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/28/20 08:27	10/28/20 08:27		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/28/20 08:27	10/28/20 08:27	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/28/20 08:27	10/28/20 08:27	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.5	%	70.0-130	1	10/28/20 08:27	10/28/20 08:27	615-59-8FID	
2,5-Dibromotoluene (PID)	80.6	%	70.0-130	1	10/28/20 08:27	10/28/20 08:27	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	18.2	ug/L	5.0	1	10/28/20 00:59	10/29/20 01:00	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/28/20 03:27	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 03:27	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 03:27	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 03:27	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 03:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 03:27	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 03:27	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 03:27	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 03:27	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 03:27	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 03:27	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 03:27	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/28/20 03:27	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 03:27	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 03:27	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 03:27	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 03:27	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 03:27	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 03:27	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 03:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 03:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 03:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 03:27	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 03:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 03:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 03:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 03:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 03:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 03:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 03:27	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 03:27	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 03:27	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-41	Lab ID: 92501960006	Collected: 10/23/20 11:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 03:27	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 03:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 03:27	10061-02-6	
Diisopropyl ether	2.3	ug/L	0.50	1		10/28/20 03:27	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/28/20 03:27	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 03:27	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 03:27	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 03:27	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/20 03:27	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 03:27	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 03:27	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 03:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 03:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 03:27	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 03:27	127-18-4	
Toluene	ND	ug/L	0.50	1		10/28/20 03:27	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 03:27	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 03:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 03:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 03:27	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 03:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 03:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 03:27	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 03:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 03:27	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 03:27	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/28/20 03:27	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/20 03:27	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/28/20 03:27	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/28/20 03:27	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/28/20 03:27	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-43	Lab ID: 92501960007	Collected: 10/23/20 09:05	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/28/20 09:00	10/28/20 09:00		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/28/20 09:00	10/28/20 09:00		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/28/20 09:00	10/28/20 09:00	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/28/20 09:00	10/28/20 09:00	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	84.7	%	70.0-130	1	10/28/20 09:00	10/28/20 09:00	615-59-8FID	
2,5-Dibromotoluene (PID)	79.1	%	70.0-130	1	10/28/20 09:00	10/28/20 09:00	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/29/20 01:04	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/28/20 03:45	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 03:45	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 03:45	74-97-5	
Bromodichloromethane	0.51	ug/L	0.50	1		10/28/20 03:45	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 03:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 03:45	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 03:45	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 03:45	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 03:45	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 03:45	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 03:45	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 03:45	75-00-3	
Chloroform	5.8	ug/L	0.50	1		10/28/20 03:45	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 03:45	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 03:45	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 03:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 03:45	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 03:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 03:45	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 03:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 03:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 03:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 03:45	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 03:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 03:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 03:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 03:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 03:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 03:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 03:45	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 03:45	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 03:45	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-43	Lab ID: 92501960007	Collected: 10/23/20 09:05	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 03:45	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 03:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 03:45	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/28/20 03:45	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/28/20 03:45	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 03:45	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 03:45	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 03:45	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/20 03:45	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 03:45	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 03:45	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 03:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 03:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 03:45	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 03:45	127-18-4	
Toluene	ND	ug/L	0.50	1		10/28/20 03:45	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 03:45	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 03:45	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 03:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 03:45	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 03:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 03:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 03:45	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 03:45	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 03:45	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 03:45	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/28/20 03:45	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/20 03:45	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/28/20 03:45	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/28/20 03:45	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/28/20 03:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-52	Lab ID: 92501960008	Collected: 10/23/20 12:20	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	281	ug/L	100	1	10/28/20 09:34	10/28/20 09:34		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/28/20 09:34	10/28/20 09:34		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/28/20 09:34	10/28/20 09:34	TPHC9C10A	
Total VPH	341	ug/L	100	1	10/28/20 09:34	10/28/20 09:34	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.2	%	70.0-130	1	10/28/20 09:34	10/28/20 09:34	615-59-8FID	
2,5-Dibromotoluene (PID)	80.2	%	70.0-130	1	10/28/20 09:34	10/28/20 09:34	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/29/20 01:07	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	31.0	ug/L	0.50	1		10/28/20 04:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 04:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 04:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 04:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 04:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 04:03	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 04:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 04:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 04:03	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 04:03	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 04:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 04:03	75-00-3	
Chloroform	1.8	ug/L	0.50	1		10/28/20 04:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 04:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 04:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 04:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 04:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 04:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 04:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 04:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 04:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 04:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 04:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 04:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 04:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 04:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 04:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 04:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 04:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 04:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 04:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 04:03	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-52	Lab ID: 92501960008	Collected: 10/23/20 12:20	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 04:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 04:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 04:03	10061-02-6	
Diisopropyl ether	26.7	ug/L	0.50	1		10/28/20 04:03	108-20-3	
Ethylbenzene	3.5	ug/L	0.50	1		10/28/20 04:03	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 04:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 04:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 04:03	75-09-2	
Methyl-tert-butyl ether	7.3	ug/L	0.50	1		10/28/20 04:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 04:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 04:03	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 04:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 04:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 04:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 04:03	127-18-4	
Toluene	80.2	ug/L	0.50	1		10/28/20 04:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 04:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 04:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 04:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 04:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 04:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 04:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 04:03	96-18-4	
1,2,4-Trimethylbenzene	0.59	ug/L	0.50	1		10/28/20 04:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 04:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 04:03	75-01-4	
m&p-Xylene	7.2	ug/L	1.0	1		10/28/20 04:03	179601-23-1	
o-Xylene	6.0	ug/L	0.50	1		10/28/20 04:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		10/28/20 04:03	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/28/20 04:03	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		10/28/20 04:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-55 **Lab ID: 92501960009** Collected: 10/23/20 12:00 Received: 10/23/20 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	13000	ug/L	500	5	10/29/20 16:14	10/29/20 16:14		
Aliphatic (C09-C12)	4580	ug/L	100	1	10/28/20 10:07	10/28/20 10:07		
Aromatic (C09-C10),Unadjusted	1720	ug/L	100	1	10/28/20 10:07	10/28/20 10:07	TPHC9C10A	
Total VPH	6300	ug/L	100	1	10/28/20 10:07	10/28/20 10:07	VPH	

Surrogates

2,5-Dibromotoluene (FID)	89.4	%	70.0-130	1	10/28/20 10:07	10/28/20 10:07	615-59-8FID	
2,5-Dibromotoluene (FID)	84.0	%	70.0-130	5	10/29/20 16:14	10/29/20 16:14	615-59-8FID	
2,5-Dibromotoluene (PID)	81.1	%	70.0-130	1	10/28/20 10:07	10/28/20 10:07	615-59-8PID	
2,5-Dibromotoluene (PID)	89.5	%	70.0-130	5	10/29/20 16:14	10/29/20 16:14	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	10/28/20 00:59	10/29/20 01:16	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	900	ug/L	12.5	25		10/28/20 16:30	71-43-2	
Bromobenzene	ND	ug/L	12.5	25		10/28/20 16:30	108-86-1	
Bromochloromethane	ND	ug/L	12.5	25		10/28/20 16:30	74-97-5	
Bromodichloromethane	ND	ug/L	12.5	25		10/28/20 16:30	75-27-4	
Bromoform	ND	ug/L	12.5	25		10/28/20 16:30	75-25-2	
Bromomethane	ND	ug/L	125	25		10/28/20 16:30	74-83-9	M1
n-Butylbenzene	ND	ug/L	12.5	25		10/28/20 16:30	104-51-8	
sec-Butylbenzene	ND	ug/L	12.5	25		10/28/20 16:30	135-98-8	
tert-Butylbenzene	ND	ug/L	12.5	25		10/28/20 16:30	98-06-6	
Carbon tetrachloride	ND	ug/L	12.5	25		10/28/20 16:30	56-23-5	
Chlorobenzene	ND	ug/L	12.5	25		10/28/20 16:30	108-90-7	
Chloroethane	ND	ug/L	25.0	25		10/28/20 16:30	75-00-3	
Chloroform	ND	ug/L	12.5	25		10/28/20 16:30	67-66-3	
Chloromethane	ND	ug/L	25.0	25		10/28/20 16:30	74-87-3	
2-Chlorotoluene	ND	ug/L	12.5	25		10/28/20 16:30	95-49-8	
4-Chlorotoluene	ND	ug/L	12.5	25		10/28/20 16:30	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	25.0	25		10/28/20 16:30	96-12-8	
Dibromochloromethane	ND	ug/L	12.5	25		10/28/20 16:30	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	12.5	25		10/28/20 16:30	106-93-4	
Dibromomethane	ND	ug/L	12.5	25		10/28/20 16:30	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	12.5	25		10/28/20 16:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	12.5	25		10/28/20 16:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	12.5	25		10/28/20 16:30	106-46-7	
Dichlorodifluoromethane	ND	ug/L	12.5	25		10/28/20 16:30	75-71-8	
1,1-Dichloroethane	ND	ug/L	12.5	25		10/28/20 16:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	12.5	25		10/28/20 16:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	12.5	25		10/28/20 16:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	12.5	25		10/28/20 16:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	12.5	25		10/28/20 16:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	12.5	25		10/28/20 16:30	78-87-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: MW-55	Lab ID: 92501960009	Collected: 10/23/20 12:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,3-Dichloropropane	ND	ug/L	12.5	25		10/28/20 16:30	142-28-9	
2,2-Dichloropropane	ND	ug/L	12.5	25		10/28/20 16:30	594-20-7	
1,1-Dichloropropene	ND	ug/L	12.5	25		10/28/20 16:30	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	12.5	25		10/28/20 16:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	12.5	25		10/28/20 16:30	10061-02-6	
Diisopropyl ether	144	ug/L	12.5	25		10/28/20 16:30	108-20-3	
Ethylbenzene	457	ug/L	12.5	25		10/28/20 16:30	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	25		10/28/20 16:30	87-68-3	
Isopropylbenzene (Cumene)	26.5	ug/L	12.5	25		10/28/20 16:30	98-82-8	
Methylene Chloride	ND	ug/L	50.0	25		10/28/20 16:30	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	12.5	25		10/28/20 16:30	1634-04-4	
Naphthalene	85.7	ug/L	50.0	25		10/28/20 16:30	91-20-3	
n-Propylbenzene	ND	ug/L	12.5	25		10/28/20 16:30	103-65-1	M1
Styrene	ND	ug/L	12.5	25		10/28/20 16:30	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	12.5	25		10/28/20 16:30	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	12.5	25		10/28/20 16:30	79-34-5	
Tetrachloroethene	ND	ug/L	12.5	25		10/28/20 16:30	127-18-4	
Toluene	3590	ug/L	12.5	25		10/28/20 16:30	108-88-3	M1
1,2,3-Trichlorobenzene	ND	ug/L	50.0	25		10/28/20 16:30	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	25		10/28/20 16:30	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	12.5	25		10/28/20 16:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	12.5	25		10/28/20 16:30	79-00-5	
Trichloroethene	ND	ug/L	12.5	25		10/28/20 16:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	25.0	25		10/28/20 16:30	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	12.5	25		10/28/20 16:30	96-18-4	
1,2,4-Trimethylbenzene	626	ug/L	12.5	25		10/28/20 16:30	95-63-6	M1
1,3,5-Trimethylbenzene	ND	ug/L	12.5	25		10/28/20 16:30	108-67-8	M1
Vinyl chloride	ND	ug/L	25.0	25		10/28/20 16:30	75-01-4	
m&p-Xylene	1870	ug/L	25.0	25		10/28/20 16:30	179601-23-1	M1
o-Xylene	860	ug/L	12.5	25		10/28/20 16:30	95-47-6	M1
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	25		10/28/20 16:30	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	25		10/28/20 16:30	460-00-4	
Toluene-d8 (S)	100	%	70-130	25		10/28/20 16:30	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: DUP-3-20201023 **Lab ID: 92501960010** Collected: 10/23/20 00:00 Received: 10/23/20 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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MADEPV

Analytical Method: MADEP VPH Preparation Method: MADEPV

Pace National - Mt. Juliet

Aliphatic (C05-C08)	ND	ug/L	100	1	10/28/20 10:40	10/28/20 10:40		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/28/20 10:40	10/28/20 10:40		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/28/20 10:40	10/28/20 10:40	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/28/20 10:40	10/28/20 10:40	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	86.2	%	70.0-130	1	10/28/20 10:40	10/28/20 10:40	615-59-8FID	
2,5-Dibromotoluene (PID)	77.3	%	70.0-130	1	10/28/20 10:40	10/28/20 10:40	615-59-8PID	

6010 MET ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A

Pace Analytical Services - Asheville

Lead	ND	ug/L	5.0	1	10/28/20 16:51	10/29/20 20:36	7439-92-1	
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6200B MSV

Analytical Method: SM 6200B

Pace Analytical Services - Charlotte

Benzene	ND	ug/L	0.50	1		10/28/20 04:21	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 04:21	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 04:21	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 04:21	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 04:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 04:21	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 04:21	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 04:21	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 04:21	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 04:21	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 04:21	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 04:21	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/28/20 04:21	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 04:21	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 04:21	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 04:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 04:21	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 04:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 04:21	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 04:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 04:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 04:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 04:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 04:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 04:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 04:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 04:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 04:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 04:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 04:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 04:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 04:21	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: DUP-3-20201023	Lab ID: 92501960010	Collected: 10/23/20 00:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 04:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 04:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 04:21	10061-02-6	
Diisopropyl ether	2.1	ug/L	0.50	1		10/28/20 04:21	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/28/20 04:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 04:21	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 04:21	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 04:21	75-09-2	
Methyl-tert-butyl ether	0.54	ug/L	0.50	1		10/28/20 04:21	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 04:21	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 04:21	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 04:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 04:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 04:21	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 04:21	127-18-4	
Toluene	ND	ug/L	0.50	1		10/28/20 04:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 04:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 04:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 04:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 04:21	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 04:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 04:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 04:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 04:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 04:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 04:21	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/28/20 04:21	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/20 04:21	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/28/20 04:21	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/28/20 04:21	460-00-4	
Toluene-d8 (S)	99	%	70-130	1		10/28/20 04:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: FB-3-20201023	Lab ID: 92501960011	Collected: 10/23/20 13:30	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
MADEPV								
Analytical Method: MADEP VPH Preparation Method: MADEPV								
Pace National - Mt. Juliet								
Aliphatic (C05-C08)	ND	ug/L	100	1	10/28/20 11:13	10/28/20 11:13		
Aliphatic (C09-C12)	ND	ug/L	100	1	10/28/20 11:13	10/28/20 11:13		
Aromatic (C09-C10),Unadjusted	ND	ug/L	100	1	10/28/20 11:13	10/28/20 11:13	TPHC9C10A	
Total VPH	ND	ug/L	100	1	10/28/20 11:13	10/28/20 11:13	VPH	
Surrogates								
2,5-Dibromotoluene (FID)	84.7	%	70.0-130	1	10/28/20 11:13	10/28/20 11:13	615-59-8FID	
2,5-Dibromotoluene (PID)	76.5	%	70.0-130	1	10/28/20 11:13	10/28/20 11:13	615-59-8PID	
6010 MET ICP								
Analytical Method: EPA 6010D Preparation Method: EPA 3010A								
Pace Analytical Services - Asheville								
Lead	ND	ug/L	5.0	1	10/28/20 16:51	10/29/20 20:40	7439-92-1	
6200B MSV								
Analytical Method: SM 6200B								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	0.50	1		10/28/20 00:28	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 00:28	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 00:28	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 00:28	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 00:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 00:28	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 00:28	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 00:28	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 00:28	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 00:28	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 00:28	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 00:28	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/28/20 00:28	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 00:28	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 00:28	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 00:28	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 00:28	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 00:28	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 00:28	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 00:28	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 00:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 00:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 00:28	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 00:28	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 00:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 00:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 00:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 00:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 00:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 00:28	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 00:28	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 00:28	594-20-7	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: FB-3-20201023	Lab ID: 92501960011	Collected: 10/23/20 13:30	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 00:28	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 00:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 00:28	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/28/20 00:28	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/28/20 00:28	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 00:28	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 00:28	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 00:28	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/20 00:28	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 00:28	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 00:28	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 00:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 00:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 00:28	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 00:28	127-18-4	
Toluene	ND	ug/L	0.50	1		10/28/20 00:28	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 00:28	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 00:28	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 00:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 00:28	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 00:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 00:28	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 00:28	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 00:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 00:28	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 00:28	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/28/20 00:28	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/20 00:28	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/28/20 00:28	17060-07-0	
4-Bromofluorobenzene (S)	95	%	70-130	1		10/28/20 00:28	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/28/20 00:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: TRIP BLANK	Lab ID: 92501960012	Collected: 10/23/20 00:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/28/20 00:46	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 00:46	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 00:46	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 00:46	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 00:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 00:46	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 00:46	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 00:46	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 00:46	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 00:46	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 00:46	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 00:46	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/28/20 00:46	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 00:46	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 00:46	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 00:46	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 00:46	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 00:46	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 00:46	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 00:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 00:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 00:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 00:46	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 00:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 00:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 00:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 00:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 00:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 00:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 00:46	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 00:46	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 00:46	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 00:46	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 00:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 00:46	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/28/20 00:46	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/28/20 00:46	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 00:46	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 00:46	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 00:46	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/20 00:46	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 00:46	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 00:46	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 00:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 00:46	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 00:46	79-34-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: TRIP BLANK	Lab ID: 92501960012	Collected: 10/23/20 00:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 00:46	127-18-4	
Toluene	ND	ug/L	0.50	1		10/28/20 00:46	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 00:46	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 00:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 00:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 00:46	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 00:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 00:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 00:46	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 00:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 00:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 00:46	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/28/20 00:46	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/20 00:46	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/28/20 00:46	17060-07-0	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/28/20 00:46	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		10/28/20 00:46	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Sample: TRIP BLANK	Lab ID: 92501960013	Collected: 10/23/20 00:00	Received: 10/23/20 14:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	0.50	1		10/28/20 01:04	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		10/28/20 01:04	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		10/28/20 01:04	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		10/28/20 01:04	75-27-4	
Bromoform	ND	ug/L	0.50	1		10/28/20 01:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/28/20 01:04	74-83-9	
n-Butylbenzene	ND	ug/L	0.50	1		10/28/20 01:04	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		10/28/20 01:04	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		10/28/20 01:04	98-06-6	
Carbon tetrachloride	ND	ug/L	0.50	1		10/28/20 01:04	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		10/28/20 01:04	108-90-7	
Chloroethane	ND	ug/L	1.0	1		10/28/20 01:04	75-00-3	
Chloroform	ND	ug/L	0.50	1		10/28/20 01:04	67-66-3	
Chloromethane	ND	ug/L	1.0	1		10/28/20 01:04	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 01:04	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		10/28/20 01:04	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		10/28/20 01:04	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		10/28/20 01:04	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		10/28/20 01:04	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		10/28/20 01:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 01:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 01:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		10/28/20 01:04	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		10/28/20 01:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		10/28/20 01:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		10/28/20 01:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		10/28/20 01:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 01:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		10/28/20 01:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 01:04	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		10/28/20 01:04	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		10/28/20 01:04	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		10/28/20 01:04	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 01:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		10/28/20 01:04	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		10/28/20 01:04	108-20-3	
Ethylbenzene	ND	ug/L	0.50	1		10/28/20 01:04	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		10/28/20 01:04	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		10/28/20 01:04	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		10/28/20 01:04	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		10/28/20 01:04	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		10/28/20 01:04	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		10/28/20 01:04	103-65-1	
Styrene	ND	ug/L	0.50	1		10/28/20 01:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 01:04	630-20-6	
1,1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		10/28/20 01:04	79-34-5	

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ANALYTICAL RESULTS

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

Sample: TRIP BLANK		Lab ID: 92501960013		Collected: 10/23/20 00:00	Received: 10/23/20 14:00	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Tetrachloroethene	ND	ug/L	0.50	1		10/28/20 01:04	127-18-4	
Toluene	ND	ug/L	0.50	1		10/28/20 01:04	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 01:04	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		10/28/20 01:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		10/28/20 01:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		10/28/20 01:04	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		10/28/20 01:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		10/28/20 01:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		10/28/20 01:04	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 01:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		10/28/20 01:04	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		10/28/20 01:04	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		10/28/20 01:04	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		10/28/20 01:04	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/28/20 01:04	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/28/20 01:04	460-00-4	
Toluene-d8 (S)	100	%	70-130	1		10/28/20 01:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

QC Batch:	1566042	Analysis Method:	MADEP VPH
QC Batch Method:	MADEPV	Analysis Description:	MADEPV
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 92501960001, 92501960002, 92501960003, 92501960004, 92501960005, 92501960006, 92501960007, 92501960008, 92501960009, 92501960010, 92501960011

METHOD BLANK: R3586557-2 Matrix: Water
Associated Lab Samples: 92501960001, 92501960002, 92501960003, 92501960004, 92501960005, 92501960006, 92501960007, 92501960008, 92501960009, 92501960010, 92501960011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/28/20 02:23	
Aliphatic (C09-C12)	ug/L	ND	100	10/28/20 02:23	
Aromatic (C09-C10), Unadjusted	ug/L	ND	100	10/28/20 02:23	
Total VPH	ug/L	ND	100	10/28/20 02:23	
2,5-Dibromotoluene (FID)	%	84.5	70.0-130	10/28/20 02:23	
2,5-Dibromotoluene (PID)	%	78.4	70.0-130	10/28/20 02:23	

LABORATORY CONTROL SAMPLE & LCSD: R3586557-1 R3586557-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1060	1050	88.3	87.5	70.0-130	0.948	25	
Aliphatic (C09-C12)	ug/L	1400	1400	1350	100	96.4	70.0-130	3.64	25	
Aromatic (C09-C10), Unadjusted	ug/L	200	194	181	97.0	90.5	70.0-130	6.93	25	
Total VPH	ug/L	2800	2650	2580	94.6	92.1	70.0-130	2.68	25	
2,5-Dibromotoluene (FID)	%				87.8	84.8	70.0-130			
2,5-Dibromotoluene (PID)	%				83.0	79.2	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

QC Batch: 1567090

Analysis Method: MADEP VPH

QC Batch Method: MADEPV

Analysis Description: MADEPV

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 92501960009

METHOD BLANK: R3587453-3

Matrix: Water

Associated Lab Samples: 92501960009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aliphatic (C05-C08)	ug/L	ND	100	10/29/20 14:59	
2,5-Dibromotoluene (FID)	%	83.1	70.0-130	10/29/20 14:59	
2,5-Dibromotoluene (PID)	%	88.6	70.0-130	10/29/20 14:59	

LABORATORY CONTROL SAMPLE & LCSD: R3587453-1

R3587453-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aliphatic (C05-C08)	ug/L	1200	1040	1060	86.7	88.3	70.0-130	1.90	25	
2,5-Dibromotoluene (FID)	%				88.5	90.1	70.0-130			
2,5-Dibromotoluene (PID)	%				95.2	96.5	70.0-130			

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

QC Batch:	576183	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010 MET
		Laboratory:	Pace Analytical Services - Asheville

Associated Lab Samples: 92501960001, 92501960002, 92501960003, 92501960004, 92501960005, 92501960006, 92501960007, 92501960008, 92501960009

METHOD BLANK: 3049579 Matrix: Water
Associated Lab Samples: 92501960001, 92501960002, 92501960003, 92501960004, 92501960005, 92501960006, 92501960007, 92501960008, 92501960009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/28/20 23:34	

LABORATORY CONTROL SAMPLE: 3049580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	494	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3049581 3049582

Parameter	92501860005		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result									
Lead	ug/L	ND	500	500	531	504	105	100	75-125	5	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

QC Batch: 576408	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010 MET
	Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92501960010, 92501960011

METHOD BLANK: 3050454 Matrix: Water
Associated Lab Samples: 92501960010, 92501960011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	10/29/20 20:07	

LABORATORY CONTROL SAMPLE: 3050455

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	472	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3050456 3050457

Parameter	Units	92501718009		3050456		3050457		% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Lead	ug/L	ND	500	500	477	488	95	98	75-125	2

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

QC Batch:	576079	Analysis Method:	SM 6200B
QC Batch Method:	SM 6200B	Analysis Description:	6200B MSV
		Laboratory:	Pace Analytical Services - Charlotte

Associated Lab Samples: 92501960001, 92501960002, 92501960003, 92501960004, 92501960005, 92501960006, 92501960007, 92501960008, 92501960010, 92501960011, 92501960012, 92501960013

METHOD BLANK: 3048977 Matrix: Water

Associated Lab Samples: 92501960001, 92501960002, 92501960003, 92501960004, 92501960005, 92501960006, 92501960007, 92501960008, 92501960010, 92501960011, 92501960012, 92501960013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/27/20 23:52	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/27/20 23:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/27/20 23:52	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/27/20 23:52	
1,1-Dichloroethane	ug/L	ND	0.50	10/27/20 23:52	
1,1-Dichloroethene	ug/L	ND	0.50	10/27/20 23:52	
1,1-Dichloropropene	ug/L	ND	0.50	10/27/20 23:52	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/27/20 23:52	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/27/20 23:52	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/27/20 23:52	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/27/20 23:52	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/27/20 23:52	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/27/20 23:52	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/27/20 23:52	
1,2-Dichloroethane	ug/L	ND	0.50	10/27/20 23:52	
1,2-Dichloropropane	ug/L	ND	0.50	10/27/20 23:52	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/27/20 23:52	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/27/20 23:52	
1,3-Dichloropropane	ug/L	ND	0.50	10/27/20 23:52	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/27/20 23:52	
2,2-Dichloropropane	ug/L	ND	0.50	10/27/20 23:52	
2-Chlorotoluene	ug/L	ND	0.50	10/27/20 23:52	
4-Chlorotoluene	ug/L	ND	0.50	10/27/20 23:52	
Benzene	ug/L	ND	0.50	10/27/20 23:52	
Bromobenzene	ug/L	ND	0.50	10/27/20 23:52	
Bromochloromethane	ug/L	ND	0.50	10/27/20 23:52	
Bromodichloromethane	ug/L	ND	0.50	10/27/20 23:52	
Bromoform	ug/L	ND	0.50	10/27/20 23:52	
Bromomethane	ug/L	ND	5.0	10/27/20 23:52	
Carbon tetrachloride	ug/L	ND	0.50	10/27/20 23:52	
Chlorobenzene	ug/L	ND	0.50	10/27/20 23:52	
Chloroethane	ug/L	ND	1.0	10/27/20 23:52	
Chloroform	ug/L	ND	0.50	10/27/20 23:52	
Chloromethane	ug/L	ND	1.0	10/27/20 23:52	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/27/20 23:52	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/27/20 23:52	
Dibromochloromethane	ug/L	ND	0.50	10/27/20 23:52	
Dibromomethane	ug/L	ND	0.50	10/27/20 23:52	
Dichlorodifluoromethane	ug/L	ND	0.50	10/27/20 23:52	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

METHOD BLANK: 3048977

Matrix: Water

Associated Lab Samples: 92501960001, 92501960002, 92501960003, 92501960004, 92501960005, 92501960006, 92501960007, 92501960008, 92501960010, 92501960011, 92501960012, 92501960013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	ND	0.50	10/27/20 23:52	
Ethylbenzene	ug/L	ND	0.50	10/27/20 23:52	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/27/20 23:52	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/27/20 23:52	
m&p-Xylene	ug/L	ND	1.0	10/27/20 23:52	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/27/20 23:52	
Methylene Chloride	ug/L	ND	2.0	10/27/20 23:52	
n-Butylbenzene	ug/L	ND	0.50	10/27/20 23:52	
n-Propylbenzene	ug/L	ND	0.50	10/27/20 23:52	
Naphthalene	ug/L	ND	2.0	10/27/20 23:52	
o-Xylene	ug/L	ND	0.50	10/27/20 23:52	
sec-Butylbenzene	ug/L	ND	0.50	10/27/20 23:52	
Styrene	ug/L	ND	0.50	10/27/20 23:52	
tert-Butylbenzene	ug/L	ND	0.50	10/27/20 23:52	
Tetrachloroethene	ug/L	ND	0.50	10/27/20 23:52	
Toluene	ug/L	ND	0.50	10/27/20 23:52	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/27/20 23:52	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/27/20 23:52	
Trichloroethene	ug/L	ND	0.50	10/27/20 23:52	
Trichlorofluoromethane	ug/L	ND	1.0	10/27/20 23:52	
Vinyl chloride	ug/L	ND	1.0	10/27/20 23:52	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/27/20 23:52	
4-Bromofluorobenzene (S)	%	96	70-130	10/27/20 23:52	
Toluene-d8 (S)	%	100	70-130	10/27/20 23:52	

LABORATORY CONTROL SAMPLE: 3048978

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.1	106	60-140	
1,1,1-Trichloroethane	ug/L	50	52.1	104	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	51.1	102	60-140	
1,1,2-Trichloroethane	ug/L	50	51.1	102	60-140	
1,1-Dichloroethane	ug/L	50	51.0	102	60-140	
1,1-Dichloroethene	ug/L	50	54.0	108	60-140	
1,1-Dichloropropene	ug/L	50	51.7	103	60-140	
1,2,3-Trichlorobenzene	ug/L	50	53.4	107	60-140	
1,2,3-Trichloropropane	ug/L	50	50.2	100	60-140	
1,2,4-Trichlorobenzene	ug/L	50	55.1	110	60-140	
1,2,4-Trimethylbenzene	ug/L	50	51.8	104	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	57.2	114	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	60-140	
1,2-Dichlorobenzene	ug/L	50	52.4	105	60-140	
1,2-Dichloroethane	ug/L	50	46.4	93	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

LABORATORY CONTROL SAMPLE: 3048978

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	50	51.2	102	60-140	
1,3,5-Trimethylbenzene	ug/L	50	51.0	102	60-140	
1,3-Dichlorobenzene	ug/L	50	51.9	104	60-140	
1,3-Dichloropropane	ug/L	50	53.0	106	60-140	
1,4-Dichlorobenzene	ug/L	50	51.5	103	60-140	
2,2-Dichloropropane	ug/L	50	51.3	103	60-140	
2-Chlorotoluene	ug/L	50	52.1	104	60-140	
4-Chlorotoluene	ug/L	50	50.5	101	60-140	
Benzene	ug/L	50	50.4	101	60-140	
Bromobenzene	ug/L	50	50.5	101	60-140	
Bromochloromethane	ug/L	50	51.5	103	60-140	
Bromodichloromethane	ug/L	50	50.5	101	60-140	
Bromoform	ug/L	50	50.9	102	60-140	
Bromomethane	ug/L	50	58.8	118	60-140	
Carbon tetrachloride	ug/L	50	48.8	98	60-140	
Chlorobenzene	ug/L	50	51.4	103	60-140	
Chloroethane	ug/L	50	39.6	79	60-140	
Chloroform	ug/L	50	54.0	108	60-140	
Chloromethane	ug/L	50	44.1	88	60-140	
cis-1,2-Dichloroethene	ug/L	50	49.9	100	60-140	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	60-140	
Dibromochloromethane	ug/L	50	54.3	109	60-140	
Dibromomethane	ug/L	50	52.8	106	60-140	
Dichlorodifluoromethane	ug/L	50	42.5	85	60-140	
Diisopropyl ether	ug/L	50	50.4	101	60-140	
Ethylbenzene	ug/L	50	50.0	100	60-140	
Hexachloro-1,3-butadiene	ug/L	50	51.4	103	60-140	
Isopropylbenzene (Cumene)	ug/L	50	52.0	104	60-140	
m&p-Xylene	ug/L	100	101	101	60-140	
Methyl-tert-butyl ether	ug/L	50	51.2	102	60-140	
Methylene Chloride	ug/L	50	50.5	101	60-140	
n-Butylbenzene	ug/L	50	53.7	107	60-140	
n-Propylbenzene	ug/L	50	51.5	103	60-140	
Naphthalene	ug/L	50	55.9	112	60-140	
o-Xylene	ug/L	50	51.6	103	60-140	
sec-Butylbenzene	ug/L	50	51.8	104	60-140	
Styrene	ug/L	50	52.5	105	60-140	
tert-Butylbenzene	ug/L	50	44.0	88	60-140	
Tetrachloroethene	ug/L	50	50.5	101	60-140	
Toluene	ug/L	50	49.6	99	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.1	104	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.3	105	60-140	
Trichloroethene	ug/L	50	51.3	103	60-140	
Trichlorofluoromethane	ug/L	50	43.0	86	60-140	
Vinyl chloride	ug/L	50	45.0	90	60-140	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

LABORATORY CONTROL SAMPLE: 3048978

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3049772 3049773

Parameter	92501510014		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec			
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.5	22.4	103	112	60-140	9	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.5	22.6	102	113	60-140	10	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.4	20.8	97	104	60-140	7	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.6	20.7	98	104	60-140	5	
1,1-Dichloroethane	ug/L	ND	20	20	20.6	21.9	103	110	60-140	6	
1,1-Dichloroethene	ug/L	ND	20	20	22.1	23.6	110	118	60-140	7	
1,1-Dichloropropene	ug/L	ND	20	20	21.2	22.3	106	112	60-140	5	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.0	21.3	105	106	60-140	1	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.7	20.3	98	101	60-140	3	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.0	22.1	105	110	60-140	5	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.0	21.8	100	109	60-140	8	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.1	22.7	106	113	60-140	7	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.1	21.8	101	109	60-140	8	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.8	21.4	99	107	60-140	8	
1,2-Dichloroethane	ug/L	ND	20	20	18.0	19.6	90	98	60-140	9	
1,2-Dichloropropane	ug/L	ND	20	20	20.6	21.5	103	107	60-140	4	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	21.3	22.8	107	114	60-140	7	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.9	21.8	99	109	60-140	9	
1,3-Dichloropropane	ug/L	ND	20	20	20.1	22.3	100	112	60-140	11	
1,4-Dichlorobenzene	ug/L	ND	20	20	20.1	21.7	101	109	60-140	8	
2,2-Dichloropropane	ug/L	ND	20	20	21.4	23.2	107	116	60-140	8	
2-Chlorotoluene	ug/L	ND	20	20	20.9	23.1	105	116	60-140	10	
4-Chlorotoluene	ug/L	ND	20	20	20.2	22.1	101	111	60-140	9	
Benzene	ug/L	ND	20	20	20.4	21.8	102	109	60-140	7	
Bromobenzene	ug/L	ND	20	20	20.6	22.3	103	112	60-140	8	
Bromochloromethane	ug/L	ND	20	20	19.1	20.8	96	104	60-140	8	
Bromodichloromethane	ug/L	ND	20	20	19.2	20.9	96	105	60-140	8	
Bromoform	ug/L	ND	20	20	18.2	20.3	91	101	60-140	11	
Bromomethane	ug/L	ND	20	20	25.6	28.3	128	142	60-140	10 M1	
Carbon tetrachloride	ug/L	ND	20	20	20.3	22.2	102	111	60-140	9	
Chlorobenzene	ug/L	ND	20	20	20.6	22.3	103	111	60-140	8	
Chloroethane	ug/L	ND	20	20	18.7	20.3	93	102	60-140	8	
Chloroform	ug/L	ND	20	20	20.6	22.3	103	112	60-140	8	
Chloromethane	ug/L	ND	20	20	18.7	19.9	93	100	60-140	6	
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.0	21.4	100	107	60-140	7	
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.5	21.6	103	108	60-140	5	
Dibromochloromethane	ug/L	ND	20	20	20.6	22.9	103	114	60-140	10	
Dibromomethane	ug/L	ND	20	20	20.1	21.7	101	108	60-140	7	
Dichlorodifluoromethane	ug/L	ND	20	20	17.4	18.2	87	91	60-140	5	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

Parameter	92501510014		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec						
Diisopropyl ether	ug/L	ND	20	20	19.0	20.7	95	104	60-140	9				
Ethylbenzene	ug/L	ND	20	20	20.3	22.1	102	110	60-140	8				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.6	24.3	113	122	60-140	7				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.3	22.8	107	114	60-140	7				
m&p-Xylene	ug/L	ND	40	40	41.4	44.1	103	110	60-140	6				
Methyl-tert-butyl ether	ug/L	ND	20	20	18.9	20.8	95	104	60-140	9				
Methylene Chloride	ug/L	ND	20	20	19.4	20.8	97	104	60-140	7				
n-Butylbenzene	ug/L	ND	20	20	21.9	23.4	110	117	60-140	6				
n-Propylbenzene	ug/L	ND	20	20	21.5	23.4	108	117	60-140	8				
Naphthalene	ug/L	ND	20	20	20.1	21.3	101	106	60-140	5				
o-Xylene	ug/L	ND	20	20	20.5	22.0	103	110	60-140	7				
sec-Butylbenzene	ug/L	ND	20	20	21.8	23.6	109	118	60-140	8				
Styrene	ug/L	ND	20	20	20.2	21.5	101	108	60-140	6				
tert-Butylbenzene	ug/L	ND	20	20	18.4	20.0	92	100	60-140	8				
Tetrachloroethene	ug/L	ND	20	20	20.7	22.9	103	115	60-140	10				
Toluene	ug/L	ND	20	20	19.9	21.2	99	106	60-140	7				
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.1	22.6	105	113	60-140	7				
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.8	21.1	99	106	60-140	6				
Trichloroethene	ug/L	ND	20	20	21.0	22.3	105	111	60-140	6				
Trichlorofluoromethane	ug/L	ND	20	20	19.6	21.3	98	106	60-140	8				
Vinyl chloride	ug/L	ND	20	20	18.4	19.4	92	97	60-140	5				
1,2-Dichloroethane-d4 (S)	%						101	100	70-130					
4-Bromofluorobenzene (S)	%						99	98	70-130					
Toluene-d8 (S)	%						98	97	70-130					

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

QC Batch: 576381

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92501960009

METHOD BLANK: 3050254

Matrix: Water

Associated Lab Samples: 92501960009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	10/28/20 12:37	
1,1,1-Trichloroethane	ug/L	ND	0.50	10/28/20 12:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	10/28/20 12:37	
1,1,2-Trichloroethane	ug/L	ND	0.50	10/28/20 12:37	
1,1-Dichloroethane	ug/L	ND	0.50	10/28/20 12:37	
1,1-Dichloroethene	ug/L	ND	0.50	10/28/20 12:37	
1,1-Dichloropropene	ug/L	ND	0.50	10/28/20 12:37	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	10/28/20 12:37	
1,2,3-Trichloropropane	ug/L	ND	0.50	10/28/20 12:37	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	10/28/20 12:37	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	10/28/20 12:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	10/28/20 12:37	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	10/28/20 12:37	
1,2-Dichlorobenzene	ug/L	ND	0.50	10/28/20 12:37	
1,2-Dichloroethane	ug/L	ND	0.50	10/28/20 12:37	
1,2-Dichloropropane	ug/L	ND	0.50	10/28/20 12:37	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	10/28/20 12:37	
1,3-Dichlorobenzene	ug/L	ND	0.50	10/28/20 12:37	
1,3-Dichloropropane	ug/L	ND	0.50	10/28/20 12:37	
1,4-Dichlorobenzene	ug/L	ND	0.50	10/28/20 12:37	
2,2-Dichloropropane	ug/L	ND	0.50	10/28/20 12:37	
2-Chlorotoluene	ug/L	ND	0.50	10/28/20 12:37	
4-Chlorotoluene	ug/L	ND	0.50	10/28/20 12:37	
Benzene	ug/L	ND	0.50	10/28/20 12:37	
Bromobenzene	ug/L	ND	0.50	10/28/20 12:37	
Bromochloromethane	ug/L	ND	0.50	10/28/20 12:37	
Bromodichloromethane	ug/L	ND	0.50	10/28/20 12:37	
Bromoform	ug/L	ND	0.50	10/28/20 12:37	
Bromomethane	ug/L	ND	5.0	10/28/20 12:37	
Carbon tetrachloride	ug/L	ND	0.50	10/28/20 12:37	
Chlorobenzene	ug/L	ND	0.50	10/28/20 12:37	
Chloroethane	ug/L	ND	1.0	10/28/20 12:37	
Chloroform	ug/L	ND	0.50	10/28/20 12:37	
Chloromethane	ug/L	ND	1.0	10/28/20 12:37	
cis-1,2-Dichloroethene	ug/L	ND	0.50	10/28/20 12:37	
cis-1,3-Dichloropropene	ug/L	ND	0.50	10/28/20 12:37	
Dibromochloromethane	ug/L	ND	0.50	10/28/20 12:37	
Dibromomethane	ug/L	ND	0.50	10/28/20 12:37	
Dichlorodifluoromethane	ug/L	ND	0.50	10/28/20 12:37	
Diisopropyl ether	ug/L	ND	0.50	10/28/20 12:37	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

METHOD BLANK: 3050254

Matrix: Water

Associated Lab Samples: 92501960009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	0.50	10/28/20 12:37	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	10/28/20 12:37	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	10/28/20 12:37	
m&p-Xylene	ug/L	ND	1.0	10/28/20 12:37	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/28/20 12:37	
Methylene Chloride	ug/L	ND	2.0	10/28/20 12:37	
n-Butylbenzene	ug/L	ND	0.50	10/28/20 12:37	
n-Propylbenzene	ug/L	ND	0.50	10/28/20 12:37	
Naphthalene	ug/L	ND	2.0	10/28/20 12:37	
o-Xylene	ug/L	ND	0.50	10/28/20 12:37	
sec-Butylbenzene	ug/L	ND	0.50	10/28/20 12:37	
Styrene	ug/L	ND	0.50	10/28/20 12:37	
tert-Butylbenzene	ug/L	ND	0.50	10/28/20 12:37	
Tetrachloroethene	ug/L	ND	0.50	10/28/20 12:37	
Toluene	ug/L	ND	0.50	10/28/20 12:37	
trans-1,2-Dichloroethene	ug/L	ND	0.50	10/28/20 12:37	
trans-1,3-Dichloropropene	ug/L	ND	0.50	10/28/20 12:37	
Trichloroethene	ug/L	ND	0.50	10/28/20 12:37	
Trichlorofluoromethane	ug/L	ND	1.0	10/28/20 12:37	
Vinyl chloride	ug/L	ND	1.0	10/28/20 12:37	
1,2-Dichloroethane-d4 (S)	%	100	70-130	10/28/20 12:37	
4-Bromofluorobenzene (S)	%	96	70-130	10/28/20 12:37	
Toluene-d8 (S)	%	100	70-130	10/28/20 12:37	

LABORATORY CONTROL SAMPLE: 3050255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.9	108	60-140	
1,1,1-Trichloroethane	ug/L	50	52.7	105	60-140	
1,1,2,2-Tetrachloroethane	ug/L	50	49.7	99	60-140	
1,1,2-Trichloroethane	ug/L	50	50.3	101	60-140	
1,1-Dichloroethane	ug/L	50	52.3	105	60-140	
1,1-Dichloroethene	ug/L	50	55.7	111	60-140	
1,1-Dichloropropene	ug/L	50	52.7	105	60-140	
1,2,3-Trichlorobenzene	ug/L	50	55.5	111	60-140	
1,2,3-Trichloropropane	ug/L	50	49.2	98	60-140	
1,2,4-Trichlorobenzene	ug/L	50	57.4	115	60-140	
1,2,4-Trimethylbenzene	ug/L	50	52.3	105	60-140	
1,2-Dibromo-3-chloropropane	ug/L	50	54.2	108	60-140	
1,2-Dibromoethane (EDB)	ug/L	50	53.0	106	60-140	
1,2-Dichlorobenzene	ug/L	50	53.3	107	60-140	
1,2-Dichloroethane	ug/L	50	45.4	91	60-140	
1,2-Dichloropropane	ug/L	50	52.7	105	60-140	
1,3,5-Trimethylbenzene	ug/L	50	53.6	107	60-140	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

LABORATORY CONTROL SAMPLE: 3050255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	53.6	107	60-140	
1,3-Dichloropropane	ug/L	50	52.9	106	60-140	
1,4-Dichlorobenzene	ug/L	50	53.4	107	60-140	
2,2-Dichloropropane	ug/L	50	53.5	107	60-140	
2-Chlorotoluene	ug/L	50	53.7	107	60-140	
4-Chlorotoluene	ug/L	50	53.4	107	60-140	
Benzene	ug/L	50	51.6	103	60-140	
Bromobenzene	ug/L	50	51.9	104	60-140	
Bromochloromethane	ug/L	50	50.5	101	60-140	
Bromodichloromethane	ug/L	50	51.4	103	60-140	
Bromoform	ug/L	50	50.7	101	60-140	
Bromomethane	ug/L	50	61.3	123	60-140	
Carbon tetrachloride	ug/L	50	51.6	103	60-140	
Chlorobenzene	ug/L	50	52.9	106	60-140	
Chloroethane	ug/L	50	41.2	82	60-140	
Chloroform	ug/L	50	52.3	105	60-140	
Chloromethane	ug/L	50	46.9	94	60-140	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	60-140	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	60-140	
Dibromochloromethane	ug/L	50	55.4	111	60-140	
Dibromomethane	ug/L	50	53.0	106	60-140	
Dichlorodifluoromethane	ug/L	50	47.3	95	60-140	
Diisopropyl ether	ug/L	50	50.4	101	60-140	
Ethylbenzene	ug/L	50	51.6	103	60-140	
Hexachloro-1,3-butadiene	ug/L	50	54.0	108	60-140	
Isopropylbenzene (Cumene)	ug/L	50	54.3	109	60-140	
m&p-Xylene	ug/L	100	105	105	60-140	
Methyl-tert-butyl ether	ug/L	50	50.1	100	60-140	
Methylene Chloride	ug/L	50	49.9	100	60-140	
n-Butylbenzene	ug/L	50	56.5	113	60-140	
n-Propylbenzene	ug/L	50	53.6	107	60-140	
Naphthalene	ug/L	50	55.3	111	60-140	
o-Xylene	ug/L	50	52.9	106	60-140	
sec-Butylbenzene	ug/L	50	54.1	108	60-140	
Styrene	ug/L	50	53.7	107	60-140	
tert-Butylbenzene	ug/L	50	46.4	93	60-140	
Tetrachloroethene	ug/L	50	53.5	107	60-140	
Toluene	ug/L	50	51.6	103	60-140	
trans-1,2-Dichloroethene	ug/L	50	52.4	105	60-140	
trans-1,3-Dichloropropene	ug/L	50	52.4	105	60-140	
Trichloroethene	ug/L	50	53.0	106	60-140	
Trichlorofluoromethane	ug/L	50	44.4	89	60-140	
Vinyl chloride	ug/L	50	47.1	94	60-140	
1,2-Dichloroethane-d4 (S)	%			96	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

Parameter	92501960009		MS	MSD	3051315		MS	MSD	% Rec	MSD	% Rec	% Rec	MSD	% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	Result	Result	% Rec	% Rec	% Rec	% Rec	% Rec	Limits		
1,1,1,2-Tetrachloroethane	ug/L	ND	500	500	579	581	116	116	60-140	0						
1,1,1-Trichloroethane	ug/L	ND	500	500	587	581	117	116	60-140	1						
1,1,2,2-Tetrachloroethane	ug/L	ND	500	500	563	560	113	112	60-140	1						
1,1,2-Trichloroethane	ug/L	ND	500	500	563	569	113	114	60-140	1						
1,1-Dichloroethane	ug/L	ND	500	500	573	565	115	113	60-140	1						
1,1-Dichloroethene	ug/L	ND	500	500	624	631	125	126	60-140	1						
1,1-Dichloropropene	ug/L	ND	500	500	601	595	120	119	60-140	1						
1,2,3-Trichlorobenzene	ug/L	ND	500	500	615	612	123	122	60-140	0						
1,2,3-Trichloropropane	ug/L	ND	500	500	586	571	117	114	60-140	2						
1,2,4-Trichlorobenzene	ug/L	ND	500	500	616	608	123	122	60-140	1						
1,2,4-Trimethylbenzene	ug/L	626	500	500	1360	1380	146	151	60-140	2	M1					
1,2-Dibromo-3-chloropropane	ug/L	ND	500	500	641	650	128	130	60-140	2						
1,2-Dibromoethane (EDB)	ug/L	ND	500	500	587	573	117	115	60-140	2						
1,2-Dichlorobenzene	ug/L	ND	500	500	570	579	114	116	60-140	2						
1,2-Dichloroethane	ug/L	ND	500	500	508	511	102	102	60-140	1						
1,2-Dichloropropane	ug/L	ND	500	500	579	577	116	115	60-140	0						
1,3,5-Trimethylbenzene	ug/L	ND	500	500	818	820	164	164	60-140	0	M1					
1,3-Dichlorobenzene	ug/L	ND	500	500	585	585	117	117	60-140	0						
1,3-Dichloropropane	ug/L	ND	500	500	585	580	117	116	60-140	1						
1,4-Dichlorobenzene	ug/L	ND	500	500	578	582	116	116	60-140	1						
2,2-Dichloropropane	ug/L	ND	500	500	614	597	123	119	60-140	3						
2-Chlorotoluene	ug/L	ND	500	500	620	614	124	123	60-140	1						
4-Chlorotoluene	ug/L	ND	500	500	580	586	116	117	60-140	1						
Benzene	ug/L	900	500	500	1540	1540	129	129	60-140	0						
Bromobenzene	ug/L	ND	500	500	577	584	115	117	60-140	1						
Bromochloromethane	ug/L	ND	500	500	550	550	110	110	60-140	0						
Bromodichloromethane	ug/L	ND	500	500	553	547	111	109	60-140	1						
Bromoform	ug/L	ND	500	500	533	532	107	106	60-140	0						
Bromomethane	ug/L	ND	500	500	741	739	148	148	60-140	0	M1					
Carbon tetrachloride	ug/L	ND	500	500	602	580	120	116	60-140	4						
Chlorobenzene	ug/L	ND	500	500	583	582	117	116	60-140	0						
Chloroethane	ug/L	ND	500	500	510	508	102	102	60-140	0						
Chloroform	ug/L	ND	500	500	627	627	125	125	60-140	0						
Chloromethane	ug/L	ND	500	500	535	540	107	108	60-140	1						
cis-1,2-Dichloroethene	ug/L	ND	500	500	571	564	114	113	60-140	1						
cis-1,3-Dichloropropene	ug/L	ND	500	500	591	582	118	116	60-140	1						
Dibromochloromethane	ug/L	ND	500	500	592	585	118	117	60-140	1						
Dibromomethane	ug/L	ND	500	500	593	576	119	115	60-140	3						
Dichlorodifluoromethane	ug/L	ND	500	500	512	498	102	100	60-140	3						
Diisopropyl ether	ug/L	144	500	500	700	687	111	109	60-140	2						
Ethylbenzene	ug/L	457	500	500	1140	1150	136	138	60-140	1						
Hexachloro-1,3-butadiene	ug/L	ND	500	500	633	631	127	126	60-140	0						
Isopropylbenzene (Cumene)	ug/L	26.5	500	500	639	632	123	121	60-140	1						
m&p-Xylene	ug/L	1870	1000	1000	3410	3430	154	155	60-140	0	M1					
Methyl-tert-butyl ether	ug/L	ND	500	500	600	598	120	120	60-140	0						
Methylene Chloride	ug/L	ND	500	500	572	561	114	112	60-140	2						

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QUALITY CONTROL DATA

Project: Colonial Pipeline ER (10/23)
Pace Project No.: 92501960

Parameter	92501960009		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
n-Butylbenzene	ug/L	ND	500	500	651	669	130	134	60-140	3				
n-Propylbenzene	ug/L	ND	500	500	720	727	144	145	60-140	1	M1			
Naphthalene	ug/L	85.7	500	500	740	753	131	133	60-140	2				
o-Xylene	ug/L	860	500	500	1620	1630	151	153	60-140	1	M1			
sec-Butylbenzene	ug/L	ND	500	500	623	629	125	126	60-140	1				
Styrene	ug/L	ND	500	500	581	575	116	115	60-140	1				
tert-Butylbenzene	ug/L	ND	500	500	526	533	105	107	60-140	1				
Tetrachloroethene	ug/L	ND	500	500	598	600	120	120	60-140	0				
Toluene	ug/L	3590	500	500	4520	4560	187	194	60-140	1	M1			
trans-1,2-Dichloroethene	ug/L	ND	500	500	596	586	119	117	60-140	2				
trans-1,3-Dichloropropene	ug/L	ND	500	500	569	572	114	114	60-140	1				
Trichloroethene	ug/L	ND	500	500	593	584	119	117	60-140	1				
Trichlorofluoromethane	ug/L	ND	500	500	548	537	110	107	60-140	2				
Vinyl chloride	ug/L	ND	500	500	524	535	105	107	60-140	2				
1,2-Dichloroethane-d4 (S)	%						100	96	70-130					
4-Bromofluorobenzene (S)	%						98	97	70-130					
Toluene-d8 (S)	%						98	98	70-130					

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QUALIFIERS

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Pipeline ER (10/23)

Pace Project No.: 92501960

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92501960001	MW-7	MADEPV	1566042	MADEP VPH	1566042
92501960002	MW-18	MADEPV	1566042	MADEP VPH	1566042
92501960003	MW-20	MADEPV	1566042	MADEP VPH	1566042
92501960004	MW-25	MADEPV	1566042	MADEP VPH	1566042
92501960005	MW-38	MADEPV	1566042	MADEP VPH	1566042
92501960006	MW-41	MADEPV	1566042	MADEP VPH	1566042
92501960007	MW-43	MADEPV	1566042	MADEP VPH	1566042
92501960008	MW-52	MADEPV	1566042	MADEP VPH	1566042
92501960009	MW-55	MADEP VPH	1566042		
92501960009	MW-55	MADEPV	1567090	MADEP VPH	1567090
92501960010	DUP-3-20201023	MADEPV	1566042	MADEP VPH	1566042
92501960011	FB-3-20201023	MADEPV	1566042	MADEP VPH	1566042
92501960001	MW-7	EPA 3010A	576183	EPA 6010D	576204
92501960002	MW-18	EPA 3010A	576183	EPA 6010D	576204
92501960003	MW-20	EPA 3010A	576183	EPA 6010D	576204
92501960004	MW-25	EPA 3010A	576183	EPA 6010D	576204
92501960005	MW-38	EPA 3010A	576183	EPA 6010D	576204
92501960006	MW-41	EPA 3010A	576183	EPA 6010D	576204
92501960007	MW-43	EPA 3010A	576183	EPA 6010D	576204
92501960008	MW-52	EPA 3010A	576183	EPA 6010D	576204
92501960009	MW-55	EPA 3010A	576183	EPA 6010D	576204
92501960010	DUP-3-20201023	EPA 3010A	576408	EPA 6010D	576499
92501960011	FB-3-20201023	EPA 3010A	576408	EPA 6010D	576499
92501960001	MW-7	SM 6200B	576079		
92501960002	MW-18	SM 6200B	576079		
92501960003	MW-20	SM 6200B	576079		
92501960004	MW-25	SM 6200B	576079		
92501960005	MW-38	SM 6200B	576079		
92501960006	MW-41	SM 6200B	576079		
92501960007	MW-43	SM 6200B	576079		
92501960008	MW-52	SM 6200B	576079		
92501960009	MW-55	SM 6200B	576381		
92501960010	DUP-3-20201023	SM 6200B	576079		
92501960011	FB-3-20201023	SM 6200B	576079		
92501960012	TRIP BLANK	SM 6200B	576079		
92501960013	TRIP BLANK	SM 6200B	576079		

REPORT OF LABORATORY ANALYSIS

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Document Name: Sample Condition Upon Receipt(SCUR)

Document Revised: February 7, 2018 Page 1 of 2

Document No.: F-CAR-CS-033-Rev.06

Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville [] Eden [] Greenwood [] Huntersville [x] Raleigh [] Mechanicsville []

Sample Condition Upon Receipt

Client Name:

HELOM

Project # WO#: 92501960



92501960

Courier: [] Fed Ex [] UPS [] USPS [x] Client [] Commercial [] Pace [] Other: _____

Custody Seal Present? [] Yes [x] No Seals Intact? [] Yes [x] No

Date/Initials Person Examining Contents: 1/10/23/PO

Packing Material: [] Bubble Wrap [] Bubble Bags [] None [] Other

Biological Tissue Frozen? [] Yes [] No [] N/A

Thermometer: [] IR Gun ID: 92T061 Type of Ice: [x] Wet [] Blue [] None

Cooler Temp (°C): 2.1 2.4 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 2.1 2.4

[] Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil [] N/A, water sample

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? [] Yes [x] No

[] Yes [x] No

			Comments/Discrepancy:
Chain of Custody Present?	[x] Yes [] No [] N/A	1.	
Samples Arrived within Hold Time?	[] Yes [] No [] N/A	2.	
Short Hold Time Analysis (<72 hr.)?	[] Yes [x] No [] N/A	3.	
Rush Turn Around Time Requested?	[] Yes [] No [] N/A	4.	
Sufficient Volume?	[x] Yes [] No [] N/A	5.	
Correct Containers Used?	[x] Yes [] No [] N/A	6.	
-Pace Containers Used?	[] Yes [] No [] N/A		
Containers Intact?	[x] Yes [] No [] N/A	7.	
Dissolved analysis: Samples Field Filtered?	[] Yes [] No [] N/A	8.	
Sample Labels Match COC?	[x] Yes [] No [] N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
Headspace in VOA Vials (>5-6mm)?	[] Yes [x] No [] N/A	10.	
Trip Blank Present?	[x] Yes [] No [] N/A	11.	
Trip Blank Custody Seals Present?	[] Yes [] No [] N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? [] Yes [] No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project #

WO# : 92501960

PM: NMG

Due Date: 10/30/20

CLIENT: 92-AECOM CHA

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	VJGK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved vials (N/A)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																7												
2																7												
3																7												
4																7												
5																7												
6																7												
7																7												
8																7												
9																7												
10																7												
11																7												
12																2												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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.



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project # **W0# : 92501960**

PM: NMG Due Date: 10/30/20
 CLIENT: 92-AECOM CHA

p.2

Item#	Item Description	1	2	3	4	5	6	7	8	9	10	11	12
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)													
BP3U-250 mL Plastic Unpreserved (N/A)													
BP2U-500 mL Plastic Unpreserved (N/A)													
BP1U-1 liter Plastic Unpreserved (N/A)													
BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)													
BP3N-250 mL plastic HNO3 (pH < 2)													
BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)													
BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)													
WGFU-Wide-mouthed Glass jar Unpreserved													
AG1U-1 liter Amber Unpreserved (N/A) (Cl-)													
AG1H-1 liter Amber HCl (pH < 2)													
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)													
AG1S-1 liter Amber H2SO4 (pH < 2)													
AG3S-250 mL Amber H2SO4 (pH < 2)													
AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)													
DG9H-40 mL VOA HCl (N/A)													
VG9T-40 mL VOA Na2SO3 (N/A)													
VG9U-40 mL VOA Unp (N/A)													
DG6P-40 mL VOA H3PO4 (N/A)													
VOAK (6 vials per kit)-5035 kit (N/A)													
V/GK (3 vials per kit)-VPH/Gas kit (N/A)													
SP5T-125 mL Sterile Plastic (N/A - lab)													
SP2T-250 mL Sterile Plastic (N/A - lab)													
BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)													
AG0U-100 mL Amber Unpreserved vials (N/A)													
V5GU-20 mL Scintillation vials (N/A)													
DG9U-40 mL Amber Unpreserved vials (N/A)													

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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.



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: AECOM Address: 6000 Fairview Road Suite 200, Charlotte, NC 28226 Email: Phone: (704)522-0330 Fax: Requested Due Date: **Section B** Required Project Information: Report To: Andrew Wresching Copy To: Purchase Order #: Project Name: Colonial Pipeline Emergency Response Project #: **Section C** Invoice Information: Attention: Company Name: Address: Pace Quote: Pace Project Manager: nicole.gastrowski@pacelabs.com Pace Profile #: 12518 **Regulatory Agency:** State / Location: NC

Page : 1 Of 2

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9/, .) Sample Ids must be unique	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
				START DATE	END DATE							
1	MM-7	Drinking Water	DW	10/23	0900		Unpreserved	6200				001
2	MM-18	Drinking Water	DW	10/23	1030		H2SO4	VPH				002
3	MM-20	Drinking Water	DW	10/23	1100		HNO3	6010 Lead				003
4	MM-25	Drinking Water	DW	10/23	0955		HCl	Trip BLANK				004
5	MM-38	Drinking Water	DW	10/23	1000		NaOH					005
6	MM-41	Drinking Water	DW	10/23	1100		Na2S2O3					006
7	MM-43	Drinking Water	DW	10/23	0905		Methanol					007
8	MM-52	Drinking Water	DW	10/23	1220		Other					008
9	MM-55	Drinking Water	DW	10/23	1200							009
10	DUP-3-20201023			10/23	1330							010
11	FB-3-20201023			10/23	1330							011
12	Trip Blank			10/23	1330							012

ADDITIONAL COMMENTS: Relinquished by / Affiliation: Emily D. Fore / AECOM Date: 10/23/2020 Time: 1400 Accepted by / Affiliation: MPA Pace H-VL Date: 07/26/2020 Time: 1400

TEMP in C: 24

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): Y

Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Emily Love SIGNATURE of SAMPLER: Emily D. Fore DATE Signed: 10/23/2020

November 05, 2020

Alex Testoff
Montrose Environmental Group, Inc.
400 Northridge Rd.
Suite 400
Atlanta, GA 30350

RE: Project: Colonial Northstone
Pace Project No.: 92503286

Dear Alex Testoff:

Enclosed are the analytical results for sample(s) received by the laboratory on November 02, 2020. 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 - Charlotte

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

Sincerely,



Nicole Gasiorowski
nicole.gasiorowski@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: J Culbreath, Colonial Pipeline Company
Robert Hughes, Colonial Pipeline Company
Margaret King, APEX Companies, LLC
Jeff Morrison, Colonial Pipeline Company
Nicholas Nelson, Montrose Environmental Group, Inc.
Andrew Street, Apex Companies - NC
J Tate, Colonial Pipeline Company
JM Wyatt, Colonial Pipeline Company



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Colonial Northstone

Pace Project No.: 92503286

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078

Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Colonial Northstone

Pace Project No.: 92503286

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92503286001	20296-SW-7	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92503286002	20296-SW-6	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92503286003	20296-SW-5	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92503286004	20296-SW-4	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92503286005	20296-SW-3	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92503286006	20296-SW-2	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92503286007	20296-SW-1	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92503286008	20296-SW-Conf.	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92503286009	20296-SW-Seep	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	BSH	9	PASI-C
92503286010	20296-SW-Dup	EPA 5030B/8015C Mod.	MAD	2	PASI-C
		EPA 8260D	SAS	9	PASI-C
92503286011	Trip Blank	EPA 8260D	SAS	9	PASI-C

PASI-C = Pace Analytical Services - Charlotte

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: 20296-SW-7	Lab ID: 92503286001	Collected: 10/31/20 08:45	Received: 11/02/20 11:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		11/03/20 13:00		
Surrogates								
4-Bromofluorobenzene (S)	90	%	70-130	1		11/03/20 13:00	460-00-4	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		11/03/20 14:29	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 14:29	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 14:29	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 14:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 14:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 14:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		11/03/20 14:29	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		11/03/20 14:29	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		11/03/20 14:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: 20296-SW-6	Lab ID: 92503286002	Collected: 10/31/20 09:10	Received: 11/02/20 11:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		11/03/20 13:56		
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	1		11/03/20 13:56	460-00-4	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		11/03/20 14:47	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 14:47	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 14:47	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 14:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 14:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 14:47	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/03/20 14:47	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		11/03/20 14:47	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		11/03/20 14:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: 20296-SW-5	Lab ID: 92503286003	Collected: 10/31/20 09:25	Received: 11/02/20 11:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		11/03/20 14:24		
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		11/03/20 14:24	460-00-4	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		11/03/20 15:05	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 15:05	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 15:05	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 15:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 15:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 15:05	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		11/03/20 15:05	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		11/03/20 15:05	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		11/03/20 15:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: 20296-SW-4	Lab ID: 92503286004	Collected: 10/31/20 09:50	Received: 11/02/20 11:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		11/03/20 14:53		
Surrogates								
4-Bromofluorobenzene (S)	87	%	70-130	1		11/03/20 14:53	460-00-4	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		11/03/20 15:23	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 15:23	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 15:23	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 15:23	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 15:23	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 15:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		11/03/20 15:23	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		11/03/20 15:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		11/03/20 15:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: 20296-SW-3	Lab ID: 92503286005	Collected: 10/31/20 10:45	Received: 11/02/20 11:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		11/03/20 15:21		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		11/03/20 15:21	460-00-4	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		11/03/20 15:42	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 15:42	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 15:42	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 15:42	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 15:42	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 15:42	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/03/20 15:42	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		11/03/20 15:42	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		11/03/20 15:42	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: 20296-SW-2	Lab ID: 92503286006	Collected: 10/31/20 11:05	Received: 11/02/20 11:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		11/03/20 15:49		
Surrogates								
4-Bromofluorobenzene (S)	87	%	70-130	1		11/03/20 15:49	460-00-4	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		11/03/20 16:00	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 16:00	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 16:00	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 16:00	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 16:00	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 16:00	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/03/20 16:00	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		11/03/20 16:00	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		11/03/20 16:00	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: 20296-SW-1	Lab ID: 92503286007	Collected: 10/31/20 11:30	Received: 11/02/20 11:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics								
Analytical Method: EPA 5030B/8015C Mod.								
Pace Analytical Services - Charlotte								
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		11/03/20 16:17		
Surrogates								
4-Bromofluorobenzene (S)	89	%	70-130	1		11/03/20 16:17	460-00-4	
8260D MSV Low Level								
Analytical Method: EPA 8260D								
Pace Analytical Services - Charlotte								
Benzene	ND	ug/L	1.0	1		11/03/20 16:18	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 16:18	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 16:18	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 16:18	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 16:18	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 16:18	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		11/03/20 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		11/03/20 16:18	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		11/03/20 16:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: 20296-SW-Conf.	Lab ID: 92503286008	Collected: 10/31/20 12:00	Received: 11/02/20 11:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		11/03/20 16:45		
Surrogates								
4-Bromofluorobenzene (S)	92	%	70-130	1		11/03/20 16:45	460-00-4	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		11/03/20 16:36	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 16:36	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 16:36	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 16:36	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 16:36	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 16:36	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		11/03/20 16:36	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		11/03/20 16:36	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		11/03/20 16:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: 20296-SW-Seep	Lab ID: 92503286009	Collected: 10/31/20 12:10	Received: 11/02/20 11:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		11/03/20 17:13		
Surrogates								
4-Bromofluorobenzene (S)	88	%	70-130	1		11/03/20 17:13	460-00-4	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		11/03/20 16:54	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 16:54	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 16:54	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 16:54	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 16:54	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 16:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		11/03/20 16:54	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		11/03/20 16:54	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		11/03/20 16:54	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: 20296-SW-Dup	Lab ID: 92503286010	Collected: 10/31/20 12:00	Received: 11/02/20 11:05	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 5030B/8015C Mod. Pace Analytical Services - Charlotte						
Gas Range Organics (C6-C10)	ND	mg/L	0.080	1		11/03/20 17:41		
Surrogates								
4-Bromofluorobenzene (S)	91	%	70-130	1		11/03/20 17:41	460-00-4	
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		11/03/20 20:20	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 20:20	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 20:20	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 20:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 20:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 20:20	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		11/03/20 20:20	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		11/03/20 20:20	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		11/03/20 20:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Colonial Northstone

Pace Project No.: 92503286

Sample: Trip Blank		Lab ID: 92503286011	Collected: 10/31/20 00:00	Received: 11/02/20 11:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV Low Level		Analytical Method: EPA 8260D Pace Analytical Services - Charlotte						
Benzene	ND	ug/L	1.0	1		11/03/20 19:45	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		11/03/20 19:45	100-41-4	
Toluene	ND	ug/L	1.0	1		11/03/20 19:45	108-88-3	
Xylene (Total)	ND	ug/L	1.0	1		11/03/20 19:45	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	1		11/03/20 19:45	179601-23-1	
o-Xylene	ND	ug/L	1.0	1		11/03/20 19:45	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		11/03/20 19:45	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		11/03/20 19:45	17060-07-0	
Toluene-d8 (S)	106	%	70-130	1		11/03/20 19:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Colonial Northstone

Pace Project No.: 92503286

QC Batch: 577619

Analysis Method: EPA 5030B/8015C Mod.

QC Batch Method: EPA 5030B/8015C Mod.

Analysis Description: Gasoline Range Organics

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92503286001, 92503286002, 92503286003, 92503286004, 92503286005, 92503286006, 92503286007, 92503286008, 92503286009, 92503286010

METHOD BLANK: 3056090

Matrix: Water

Associated Lab Samples: 92503286001, 92503286002, 92503286003, 92503286004, 92503286005, 92503286006, 92503286007, 92503286008, 92503286009, 92503286010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	0.080	11/03/20 12:32	
4-Bromofluorobenzene (S)	%	89	70-130	11/03/20 12:32	

LABORATORY CONTROL SAMPLE: 3056091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	1	0.98	98	70-130	
4-Bromofluorobenzene (S)	%			93	70-130	

MATRIX SPIKE SAMPLE: 3056093

Parameter	Units	92503286002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	1	1.0	101	68-145	
4-Bromofluorobenzene (S)	%				91	70-130	

SAMPLE DUPLICATE: 3056092

Parameter	Units	92503286001 Result	Dup Result	RPD	Qualifiers
Gas Range Organics (C6-C10)	mg/L	ND	ND		
4-Bromofluorobenzene (S)	%	90	91		

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QUALITY CONTROL DATA

Project: Colonial Northstone
Pace Project No.: 92503286

QC Batch: 577613 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92503286001, 92503286002, 92503286003, 92503286004, 92503286005, 92503286006, 92503286007, 92503286008, 92503286009

METHOD BLANK: 3055994 Matrix: Water
Associated Lab Samples: 92503286001, 92503286002, 92503286003, 92503286004, 92503286005, 92503286006, 92503286007, 92503286008, 92503286009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/03/20 13:35	
Ethylbenzene	ug/L	ND	1.0	11/03/20 13:35	
m&p-Xylene	ug/L	ND	2.0	11/03/20 13:35	
o-Xylene	ug/L	ND	1.0	11/03/20 13:35	
Toluene	ug/L	ND	1.0	11/03/20 13:35	
Xylene (Total)	ug/L	ND	1.0	11/03/20 13:35	
1,2-Dichloroethane-d4 (S)	%	90	70-130	11/03/20 13:35	
4-Bromofluorobenzene (S)	%	99	70-130	11/03/20 13:35	
Toluene-d8 (S)	%	101	70-130	11/03/20 13:35	

LABORATORY CONTROL SAMPLE: 3055995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	44.2	88	70-130	
Ethylbenzene	ug/L	50	45.5	91	70-130	
m&p-Xylene	ug/L	100	93.0	93	70-130	
o-Xylene	ug/L	50	45.4	91	70-130	
Toluene	ug/L	50	45.1	90	70-130	
Xylene (Total)	ug/L	150	138	92	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3055996 3055997

Parameter	Units	92503233017		MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Benzene	ug/L	ND	2000	2000	1870	2030	94	102	67-150	8		
Ethylbenzene	ug/L	ND	2000	2000	1950	2080	97	104	68-143	7		
m&p-Xylene	ug/L	ND	4000	4000	4160	4350	104	109	53-157	5		
o-Xylene	ug/L	ND	2000	2000	1950	2080	98	104	68-143	6		
Toluene	ug/L	ND	2000	2000	1910	2080	96	104	47-157	8		
Xylene (Total)	ug/L	ND	6000	6000	6110	6430	102	107	66-145	5		
1,2-Dichloroethane-d4 (S)	%						99	99	70-130			
4-Bromofluorobenzene (S)	%						101	99	70-130			
Toluene-d8 (S)	%						99	97	70-130			

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QUALITY CONTROL DATA

Project: Colonial Northstone
Pace Project No.: 92503286

QC Batch: 577618 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260D MSV Low Level
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92503286010, 92503286011

METHOD BLANK: 3056067 Matrix: Water
Associated Lab Samples: 92503286010, 92503286011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	1.0	11/03/20 10:55	
Ethylbenzene	ug/L	ND	1.0	11/03/20 10:55	
m&p-Xylene	ug/L	ND	2.0	11/03/20 10:55	
o-Xylene	ug/L	ND	1.0	11/03/20 10:55	
Toluene	ug/L	ND	1.0	11/03/20 10:55	
Xylene (Total)	ug/L	ND	1.0	11/03/20 10:55	
1,2-Dichloroethane-d4 (S)	%	94	70-130	11/03/20 10:55	
4-Bromofluorobenzene (S)	%	104	70-130	11/03/20 10:55	
Toluene-d8 (S)	%	105	70-130	11/03/20 10:55	

LABORATORY CONTROL SAMPLE: 3056068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.2	102	70-130	
Ethylbenzene	ug/L	50	49.9	100	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
o-Xylene	ug/L	50	50.0	100	70-130	
Toluene	ug/L	50	49.2	98	70-130	
Xylene (Total)	ug/L	150	152	101	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3056069 3056070

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		92503233021 Result	Spike Conc.	Spike Conc.	MS Result					
Benzene	ug/L	ND	20	20	24.8	21.2	124	106	67-150	16
Ethylbenzene	ug/L	ND	20	20	22.8	19.4	114	97	68-143	16
m&p-Xylene	ug/L	ND	40	40	46.7	40.1	117	100	53-157	15
o-Xylene	ug/L	ND	20	20	23.3	19.2	116	96	68-143	19
Toluene	ug/L	ND	20	20	23.4	19.9	117	99	47-157	16
Xylene (Total)	ug/L	ND	60	60	70.0	59.3	117	99	66-145	16
1,2-Dichloroethane-d4 (S)	%						96	96	70-130	
4-Bromofluorobenzene (S)	%						101	101	70-130	
Toluene-d8 (S)	%						99	101	70-130	

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QUALITY CONTROL DATA

Project: Colonial Northstone

Pace Project No.: 92503286

Parameter	92503239006		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Benzene	ug/L	ND	20	20	22.1	22.0	110	110	67-150	0			
Ethylbenzene	ug/L	ND	20	20	21.1	20.5	106	103	68-143	3			
m&p-Xylene	ug/L	ND	40	40	43.1	41.9	108	105	53-157	3			
o-Xylene	ug/L	ND	20	20	20.7	20.2	103	101	68-143	3			
Toluene	ug/L	ND	20	20	20.8	21.1	104	106	47-157	2			
Xylene (Total)	ug/L	ND	60	60	63.8	62.1	106	103	66-145	3			
1,2-Dichloroethane-d4 (S)	%						92	95	70-130				
4-Bromofluorobenzene (S)	%						102	100	70-130				
Toluene-d8 (S)	%						101	102	70-130				

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QUALIFIERS

Project: Colonial Northstone

Pace Project No.: 92503286

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.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Colonial Northstone
Pace Project No.: 92503286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92503286001	20296-SW-7	EPA 5030B/8015C Mod.	577619		
92503286002	20296-SW-6	EPA 5030B/8015C Mod.	577619		
92503286003	20296-SW-5	EPA 5030B/8015C Mod.	577619		
92503286004	20296-SW-4	EPA 5030B/8015C Mod.	577619		
92503286005	20296-SW-3	EPA 5030B/8015C Mod.	577619		
92503286006	20296-SW-2	EPA 5030B/8015C Mod.	577619		
92503286007	20296-SW-1	EPA 5030B/8015C Mod.	577619		
92503286008	20296-SW-Conf.	EPA 5030B/8015C Mod.	577619		
92503286009	20296-SW-Seep	EPA 5030B/8015C Mod.	577619		
92503286010	20296-SW-Dup	EPA 5030B/8015C Mod.	577619		
92503286001	20296-SW-7	EPA 8260D	577613		
92503286002	20296-SW-6	EPA 8260D	577613		
92503286003	20296-SW-5	EPA 8260D	577613		
92503286004	20296-SW-4	EPA 8260D	577613		
92503286005	20296-SW-3	EPA 8260D	577613		
92503286006	20296-SW-2	EPA 8260D	577613		
92503286007	20296-SW-1	EPA 8260D	577613		
92503286008	20296-SW-Conf.	EPA 8260D	577613		
92503286009	20296-SW-Seep	EPA 8260D	577613		
92503286010	20296-SW-Dup	EPA 8260D	577618		
92503286011	Trip Blank	EPA 8260D	577618		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields



Company: **EPS Inc.**
 Address: **See Billing Info**
 Report To: **Atestoff@Mendocino-env.com**
 Copy To: **Navelson@Mendocino-env.com**

Billing Information:
 Email To:
 Site Collection Info/Address:
 State: / County/City: Time Zone Collected: [] PT [] MT [] CT [] ET

Customer Project Name/Number:
Colonial/Northshore/0799-785322
 Phone: **571-235-7107**
 Email: **571-235-7107**

LP: **WO#: 92503286**
 Order Number or ILY

Collected By (print): **Lance Briesem**
 Collected By (signature): *[Signature]*
 Turnaround Date Required:
 Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply)
 Field Filtered (if applicable): [] Yes [] No
 Analysis: _____

Lab Profile/Line:
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact: Y N
 Custody Signatures Present: Y N
 Collector Signatures Present: Y N
 Bottles Intact: Y N
 Correct Bottles: Y N
 Sufficient Volume: Y N
 Samples Received on Ice: Y N
 VOA - Headspace Acceptable: Y N
 USDA Regulated Soils: Y N
 Samples in Holding Time: Y N
 Residual Chlorine Present: Y N
 Cl Strips: Y N
 Sample pH Acceptable: Y N
 pH Strips: Y N
 Sulfide Present: Y N
 Lead Acetate Strips: _____

Lab USE ONLY:
 Lab Sample #: **92503286**

Customer Sample ID	Matrix *	Comp/Grab	Collected (or Composite Start)		Composite End Date	Time	Res CI	# of Ctns
			Date	Time				
20246-SW-7	SW	G	10/31/20	0848			6	
20246-SW-6	SW	G	10/31/20	0910			6	
20246-SW-5	SW	G	10/31/20	0925			6	
20246-SW-4	SW	G	10/31/20	0950			6	
20246-SW-3	SW	G	10/31/20	1045			6	
20246-SW-2	SW	G	10/31/20	1105			6	
20246-SW-1	SW	G	10/31/20	1130			6	
20246-SW-SEEP	SW	G	10/31/20	1200			6	
20246-SW-VAP	SW	G	10/31/20	1200			6	

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used: **Bubble bag**

Customer Remarks / Special Conditions / Possible Hazards	Date/Time	Received by/Company: (Signature)
SW = Surface Water	11/14/20 1105	<i>[Signature]</i> MERRILL
W = Water		

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: **2560737**
 Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
 Temp Blank Received: Y N
 Therm ID#: **927061**
 Cooler 1 Temp Upon Receipt: **1.8** oC
 Cooler 1 Therm Corr. Factor: **0.0** oC
 Cooler 1 Corrected Temp: **1.8** oC
 Comments:



*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project / **WO# : 92503286**

PM: NMG

Due Date: 11/06/20

CLIENT : 92-MontEnvGr

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	4	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
8	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		/	/	/	/	/	/	/	/	/	/	/	/

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

Sample Receiving Non-Conformance Form (NCF)

Date: 11/2/20	Evaluated by: Devin Walker
Client: EPS Inc.	

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other Issues not listed above:

3. Sample integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details: Sample # "20296-SW-4" had two vials broken by the evaluators.

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

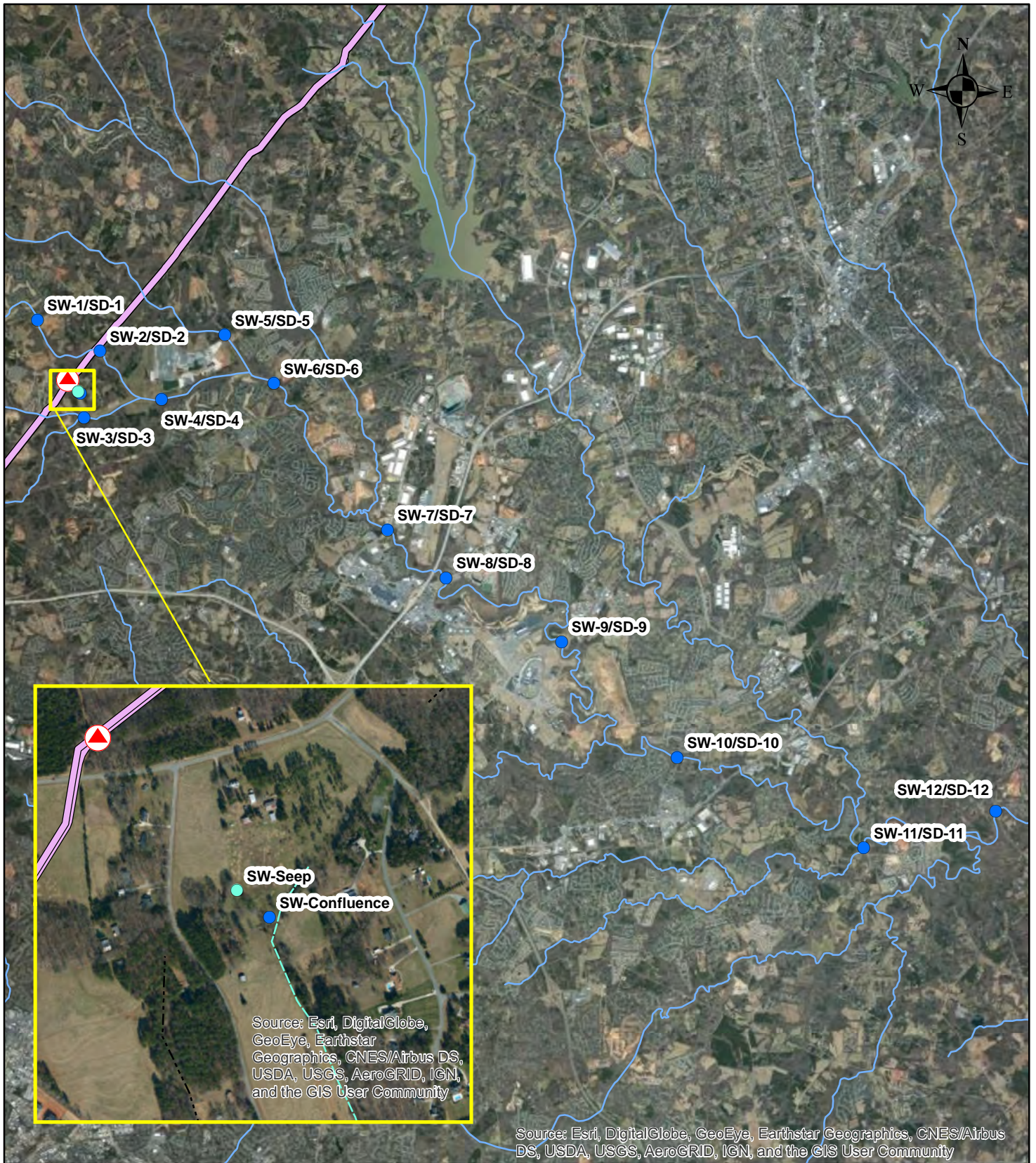
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:	
PM Initials:	Date/Time:	

Client Comments/Instructions:

APPENDIX D
SURFACE WATER SAMPLING INFORMATION



0 1 2
Miles

Legend

- ▲ Approximate Leak Site
- Surface Water (SW)/Sediment (SD) Sampling Location
- Seep Sampling Location
- Colonial Pipeline
- Rivers and Streams
- Ephemeral Stream
- Incise Valley

**Surface Water/Sediment
Sampling Locations**

*2020-LI-SR2448 Incident
Huntersville, NC*

**Table 1. Surface Water Sampling Results
2020-L1-SR2448 Incident**

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
	EPA MCL			5	1,000	700	10,000	10,000	10,000	
	EPA Region 4 ESV (acute)			700	560	550	240	240	240	
	15A North Carolina Administrative Code subchapter 02B			51	11	97	420	600	670	
SW-1	North Prong Clark Creek (Up-gradient of the leak site)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
10/22/2020	<80	<1	<1	<1	<2	<1	<1			
10/31/2020	<80	<1	<1	<1	<2	<1	<1			
11/5/2020	<80	<1	<1	<1	<2	<1	<1			
11/13/2020									x	
SW-2	North Prong Clark Creek (Downgradient of leak site)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
10/22/2020	<80	<1	<1	<1	<2	<1	<1			
10/31/2020	<80	<1	<1	<1	<2	<1	<1			
11/5/2020	<80	<1	<1	<1	<2	<1	<1			
11/13/2020									x	
SW-3	South Prong Clark Creek (Downgradient of the leak site)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
10/22/2020	<80	<1	<1	<1	<2	<1	<1			
10/31/2020	<80	<1	<1	<1	<2	<1	<1			
11/5/2020	<80	<1	<1	<1	<2	<1	<1			
11/13/2020									x	

**Table 1. Surface Water Sampling Results
2020-L1-SR2448 Incident**

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
				EPA MCL	1,000	700	10,000	10,000	10,000	
				EPA Region 4 ESV (acute)	560	550	240	240	240	
				15A North Carolina Administrative Code subchapter 02B	51	11	420	600	670	
SW-4	Clarke Creek (Downgradient of North/South Prong Clark Creek confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
10/12/2020	<80	<1	<1	<1	<2	<1	<1	x		
10/22/2020	<80	<1	<1	<1	<2	<1	<1			
10/31/2020	<80	<1	<1	<1	<2	<1	<1			
11/5/2020	<80	<1	<1	<1	<2	<1	<1			
11/13/2020									x	
SW-5	Ramah Creek (Upgradient of SW-6)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
10/12/2020	<80	<1	<1	<1	<2	<1	<1	x		
10/22/2020	<80	<1	<1	<1	<2	<1	<1			
10/31/2020	<80	<1	<1	<1	<2	<1	<1			
11/5/2020	<80	<1	<1	<1	<2	<1	<1			
11/13/2020									x	
SW-6	Clarke Creek (Downgradient of Ramah Creek confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
10/12/2020	<80	<1	<1	<1	<2	<1	<1	x		
10/22/2020	<80	<1	<1	<1	<2	<1	<1			
10/31/2020	<80	<1	<1	<1	<2	<1	<1			
11/5/2020	<80	<1	<1	<1	<2	<1	<1			
11/13/2020									x	

**Table 1. Surface Water Sampling Results
2020-L1-SR2448 Incident**

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
				5	1,000	700	10,000	10,000	10,000	
				700	560	550	240	240	240	
	15A North Carolina Administrative Code subchapter 02B			51	11	97	420	600	670	
SW-7	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
		8/22/2020	<80	<1	<1	<1	<2	<1	<1	
		8/27/2020	<80	<1	<1	<1	<2	<1	<1	
		9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
10/12/2020	<80	<1	<1	<1	<2	<1	<1	x		
10/22/2020	<80	<1	<1	<1	<2	<1	<1			
10/31/2020	<80	<1	<1	<1	<2	<1	<1			
11/5/2020	<80	<1	<1	<1	<2	<1	<1			
11/13/2020									x	
SW-8	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
8/22/2020	<80	<1	<1	<1	<2	<1	<1			
SW-9	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
8/22/2020	<80	<1	<1	<1	<2	<1	<1			
SW-10	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
8/22/2020	<80	<1	<1	<1	<2	<1	<1			
SW-11	Rocky River (Downgradient of Mallard Creek)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
8/22/2020	<80	<1	<1	<1	<2	<1	<1			
SW-12	Rocky River (Downgradient of Back Creek)	8/15/2020	<80	<1	<1	<1	<2	<1	<1	
		8/16/2020	<80	<1	<1	<1	<2	<1	<1	
		8/17/2020	<80	<1	<1	<1	<2	<1	<1	
		8/18/2020	<80	<1	<1	<1	<2	<1	<1	
		8/19/2020	<80	<1	<1	<1	<2	<1	<1	
		8/20/2020	<80	<1	<1	<1	<2	<1	<1	
		8/21/2020	<80	<1	<1	<1	<2	<1	<1	
8/22/2020	<80	<1	<1	<1	<2	<1	<1			

**Table 1. Surface Water Sampling Results
2020-L1-SR2448 Incident**

Location ID	Description	Date	TPH (GRO) (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylene (µg/L)	o-Xylene (µg/L)	Xylenes (µg/L)	Rain Event
				EPA MCL 5	1,000	700	10,000	10,000	10,000	
				EPA Region 4 ESV (acute) 700	560	550	240	240	240	
				15A North Carolina Administrative Code subchapter 02B 51	11	97	420	600	670	
SW-Seep	Downgradient of Site	9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
11/13/2020									x	
SW-Confluence	Downgradient of Site	9/1/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/2/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/3/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/10/2020	<80	<1	<1	<1	<2	<1	<1	
		9/17/2020	<80	<1	<1	<1	<2	<1	<1	
		9/19/2020	<80	<1	<1	<1	<2	<1	<1	x
		9/24/2020	<80	<1	<1	<1	<2	<1	<1	
		9/26/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/1/2020	<80	<1	<1	<1	<2	<1	<1	
		10/7/2020	<80	<1	<1	<1	<2	<1	<1	
		10/12/2020	<80	<1	<1	<1	<2	<1	<1	x
		10/22/2020	<80	<1	<1	<1	<2	<1	<1	
		11/5/2020	<80	<1	<1	<1	<2	<1	<1	
11/13/2020									x	

x	Sample collected, results pending
	Rainfall event

**Table 2. Surface Water General Parameter Measurements
2020-L1-SR2448 Incident**

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)
SW-1	North Prong Clark Creek (Up-gradient of the leak site)	8/15/2020	26.66	7.58	57	0.146	4.75	10.1
		8/16/2020	26.74	7.47	106	0.133	7.01	9.6
		8/17/2020	25.78	7.47	101	0.137	4.88	2.9
		8/18/2020	23.71	7.52	39	0.168	5.77	15.00
		8/19/2020	26.20	7.45	126	0.13	3.92	5.7
		8/20/2020	24.58	7.52	150	0.135	3.31	13
		8/21/2020	23.23	7.51	166	0.114	2.92	46.6
		8/22/2020	25.05	7.27	121	0.123	4.34	9.5
		8/27/2020	27.40	7.47	186	0.147	3.89	1.3
		9/1/2020	28.48	7.65	175	0.135	3.7	11.9
		9/2/2020	31.39	8.09	152	0.115	4.95	22.4
		9/3/2020	29.03	7.55	176	0.123	4.71	6.5
		9/10/2020	25.84	7.3	190	0.127	2.97	17.9
		9/17/2020	25.13	7.55	194	0.096	6.76	14.8
		9/19/2020	23.10	7.31	184	0.104	5.44	11.2
		9/24/2020	20.04	7.06	162	0.084	2.8	0
		9/26/2020	20.60	6.77	170	0.075	7.49	0
		10/1/2020	19.57	7.16	168	0.094	2.53	20.1
		10/7/2020	18.23	6.18	297	0.195	5.94	0
10/12/2020	21.52	6.61	223	0.072	4.98	177		
10/22/2020	19.07	6.77	215	0.09	2.44	7.3		
10/31/2020	15.83	7.41	218	0.088	8.67	77.6		
11/5/2020	17.29	7	174	0.063	5.78	45.6		
SW-2	North Prong Clark Creek (Downgradient of leak site)	8/15/2020	24.78	7.68	94	0.142	6.99	90.9
		8/16/2020	23.59	7.73	110	0.109	7.90	247
		8/17/2020	23.05	7.72	106	0.099	7.11	324
		8/18/2020	21.95	7.67	101	0.117	7.75	271
		8/19/2020	23.05	7.73	128	0.131	6.94	51
		8/20/2020	22.26	7.74	112	0.117	6.12	55.7
		8/21/2020	21.87	7.61	128	0.143	3.72	31.8
		8/22/2020	22.61	7.81	117	0.145	6.73	27.1
		8/27/2020	24.76	7.77	170	0.149	5.94	15.8
		9/1/2020	26.13	7.63	165	0.112	4.81	173
		9/2/2020	28.20	7.12	0.84	0.089	4.49	321
		9/3/2020	26.52	7.41	185	0.095	6.36	226
		9/10/2020	24.36	7.8	170	0.137	5.04	386
		9/17/2020	21.58	7.31	195	0.057	5.63	970
		9/19/2020	20.44	7.42	180	0.095	5.61	88.1
		9/24/2020	17.64	6.97	158	0.089	5	0
		9/26/2020	19.27	6.44	185	0.066	4.11	206
		10/1/2020	18.08	7.2	149	0.102	9.6	230
		10/7/2020	16.76	6.51	275	0.177	7.06	0
10/12/2020	20.80	6.68	244	0.063	6.43	444		
10/22/2020	16.60	N/A	219	0.1	3.82	361		
10/31/2020	13.76	7.33	223	0.093	7.15	156		
11/5/2020	16.51	6.91	174	0.074	5.77	152		
SW-3	South Prong Clark Creek (Downgradient of the leak site)	8/15/2020	25.04	7.65	109	0.113	7.17	224
		8/16/2020	22.52	7.54	123	0.099	7.67	250
		8/17/2020	22.66	7.64	125	0.131	7.76	248
		8/18/2020	20.10	7.68	111	0.151	7.65	198
		8/19/2020	22.98	7.66	147	0.166	6.02	27.3
		8/20/2020	21.92	7.8	99	0.176	5.37	20.9
		8/21/2020	21.40	7.64	128	0.16	3.79	94.2
		8/22/2020	22.26	7.88	113	0.154	6.66	35.5
		8/27/2020	24.99	7.83	162	0.187	6	8.2
		9/1/2020	25.34	7.61	162	0.105	5.81	141
		9/2/2020	27.13	7.12	176	0.071	4.52	238
		9/3/2020	25.18	7.38	158	0.100	5.4	98.5
		9/10/2020	24.46	7.67	177	0.18	6.11	30.9
		9/17/2020	21.41	7.29	190	0.087	6.67	ORWQM
		9/19/2020	19.90	7.41	177	0.107	5.95	50.1
		9/24/2020	16.97	7.14	149	0.126	12.27	0
		9/26/2020	18.52	6.4	195	0.066	9.22	187
		10/1/2020	17.16	7.32	144	0.125	3.33	244
		10/7/2020	15.77	6.68	272	0.23	9.85	0
10/12/2020	21.09	6.57	252	0.068	6.17	420		
10/22/2020	16.54	6.69	199	0.158	5.84	3.5		
10/31/2020	12.55	7.47	200	0.107	9.87	164		
11/5/2020	16.33	6.99	143	0.095	5.99	50.6		

Note:

(1) Updated 10/23/2020.

Red Text: malfunctioning equipment or misrecorded value

ORWQM: Outside the range of the water quality meter (over 1000 NTU)

**Table 2. Surface Water General Parameter Measurements
2020-L1-SR2448 Incident**

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)
SW-4	Clarke Creek (Downgradient of North/South Prong Clark Creek confluence)	8/15/2020	25.06	7.7	108	0.124	8.00	168
		8/16/2020	22.85	7.62	96	0.099	7.32	299
		8/17/2020	23.03	7.55	87	0.127	8.00	125
		8/18/2020	20.96	7.60	106	0.129	7.07	96.7
		8/19/2020	23.79	7.63	145	0.147	6.66	29.3
		8/20/2020	22.41	7.77	90	0.155	4.98	22.5
		8/21/2020	21.74	7.69	114	0.163	6.17	40.2
		8/22/2020	22.20	7.9	102	0.14	7.59	42
		8/27/2020	25.56	7.71	187	0.172	6.01	7.6
		9/1/2020	25.61	7.43	138	0.116	5.73	58
		9/2/2020	27.75	6.75	187	0.078	4.97	278
		9/3/2020	25.69	6.86	165	0.103	4.16	131
		9/10/2020	24.07	7.44	173	0.153	6.45	23.9
		9/17/2020	21.04	7.2	183	0.127	5.82	886
		9/19/2020	20.06	7.23	156	0.103	7.04	71.7
		9/24/2020	17.01	6.51	174	0.108	8.9	0
		9/26/2020	18.63	6.12	187	0.067	9.09	215
		10/1/2020	16.78	6.64	180	0.116	7.32	41
		10/7/2020	21.92	7.01	195	0.203	4.92	0
		10/12/2020	21.05	6.28	269	0.067	6.08	432
10/22/2020	16.12	6.16	240	0.13	8.86	69.2		
10/31/2020	12.21	7.35	184	0.098	4.04	168		
11/5/2020	18.22	6.82	170	0.085	7	54.1		
SW-5	Ramah Creek (Upgradient of SW-6)	8/15/2020	25.44	7.49	51	0.156	6.92	14.3
		8/16/2020	23.57	7.59	55	0.123	8.70	16.6
		8/17/2020	22.57	7.42	62	0.144	5.81	24.3
		8/18/2020	20.28	7.54	37	0.142	7.87	0.00
		8/19/2020	23.98	7.75	136	0.151	6.72	51.1
		8/20/2020	22.06	7.77	86	0.151	6.04	0
		8/21/2020	21.73	7.74	109	0.149	5.3	39.1
		8/22/2020	22.29	7.77	73	0.137	7.38	21.6
		8/27/2020	26.12	7.59	177	0.159	5.29	8.9
		9/1/2020	25.13	7.29	120	0.108	5.47	858
		9/2/2020	27.51	6.59	151	0.073	4.48	233
		9/3/2020	24.87	5.99	213	0.100	4.02	217
		9/10/2020	23.80	7.4	173	0.15	5.96	10
		9/17/2020	21.28	7.05	191	0.102	4.96	505
		9/19/2020	20.82	6.96	149	0.1	6.16	98.8
		9/24/2020	17.04	6.69	183	0.101	4.22	0
		9/26/2020	18.34	6.1	194	0.064	6.05	271
		10/1/2020	17.16	6.87	136	0.11	4.82	9.7
		10/7/2020	22.65	7.06	133	0.176	6.12	0.3
		10/12/2020	20.35	6.03	282	0.057	3.15	389
10/22/2020	16.03	6.37	225	0.119	7.43	14.1		
10/31/2020	12.23	6.45	240	0.102	6.47	297		
11/5/2020	17.06	6.68	170	0.08	7.56	54.2		
SW-6	Clarke Creek (Downgradient of Ramah Creek confluence)	8/15/2020	25.97	7.56	109	0.131	6.50	20.7
		8/16/2020	24.06	7.13	125	0.107	4.42	122
		8/17/2020	24.06	7.64	124	0.139	7.38	71.3
		8/18/2020	21.92	7.49	110	0.136	7.03	52.4
		8/19/2020	23.21	7.56	127	0.142	7.7	23
		8/20/2020	22.42	7.79	126	0.151	6.38	17
		8/21/2020	22.09	7.56	131	0.14	5.55	15.7
		8/22/2020	22.52	7.69	113	0.138	6.03	28
		8/27/2020	25.02	7.64	228	0.17	5.32	3.8
		9/1/2020	26.00	7.19	156	0.151	5.08	103
		9/2/2020	27.23	6.34	224	0.058	2.51	389
		9/3/2020	25.38	6.57	202	0.057	4.38	135
		9/10/2020	24.48	7.02	211	0.16	4.93	18.7
		9/17/2020	21.66	6.76	225	0.133	5.51	39
		9/19/2020	21.06	6.82	279	0.111	5.53	57.5
		9/24/2020	17.19	6.67	195	0.108	10	21.4
		9/26/2020	19.04	6.22	207	0.052	9.75	102
		10/1/2020	17.17	6.84	179	0.119	7.72	19.5
		10/7/2020	22.00	7.1	186	0.207	6.05	0.5
		10/12/2020	20.95	5.72	291	0.046	1.35	515
10/22/2020	15.92	6.48	245	0.136	2.87	20.9		
10/31/2020	13.23	6.72	256	0.108	3.45	209		
11/5/2020	15.77	6.54	208	0.069	8.21	116		

Note:

(1) Updated 10/23/2020.

Red Text: malfunctioning equipment or misrecorded value

ORWQM: Outside the range of the water quality meter (over 1000 NTU)

**Table 2. Surface Water General Parameter Measurements
2020-L1-SR2448 Incident**

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)
SW-7	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.81	7.56	132	0.175	6.65	45.5
		8/16/2020	23.98	7.33	127	0.103	6.02	254
		8/17/2020	25.00	7.76	101	0.122	6.89	102
		8/18/2020	22.22	7.54	114	0.16	7.15	71.7
		8/19/2020	22.89	7.63	118	0.181	6.39	41.5
		8/20/2020	22.67	7.75	145	0.179	6.02	33.5
		8/21/2020	22.54	7.57	141	0.191	6.08	49
		8/22/2020	22.66	7.65	124	0.161	6.11	52.9
		8/27/2020	25.42	7.88	247	0.24	5.61	25
		9/1/2020	25.66	7.00	183	0.106	4.72	197
		9/2/2020	31.26	4.96	338	2.28	6.15	163
		9/3/2020	26.12	5.81	312	0.134	3.51	108
		9/10/2020	24.39	6.19	303	0.216	6.02	26.6
		9/17/2020	21.81	5.93	287	0.21	6.37	138
		9/19/2020	21.22	6.65	335	0.127	6.16	43.2
		9/24/2020	17.50	6.06	194	0.161	5.4	10
		9/26/2020	18.85	5.67	200	0.088	10.57	189
10/1/2020	16.43	6.08	217	0.133	6.35	57.9		
10/7/2020	23.92	6.96	207	0.242	5.45	6.8		
10/12/2020	20.01	5.03	309	0.134	2.07	410		
10/22/2020	17.12	6.06	265	0.174	3.81	22.5		
10/31/2020	13.82	6.15	256	0.124	0.44	167		
11/5/2020	18.47	5.99	209	0.136	6.17	64.1		
SW-8	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.72	7.65	105	0.164	7.71	56.4
		8/16/2020	24.19	7.47	136	0.098	6.34	280
		8/17/2020	25.66	7.84	134	0.189	6.88	15.5
		8/18/2020	22.44	7.60	105	0.15	6.9	73.3
		8/19/2020	23.05	7.58	130	0.171	5.34	43.5
		8/20/2020	22.77	7.68	178	0.168	3.6	50.4
		8/21/2020	22.73	7.53	127	0.193	5.7	33.5
		8/22/2020	22.72	7.72	115	0.145	6.5	60.1
SW-9	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.27	7.57	126	0.165	5.61	93.1
		8/16/2020	23.83	7.49	125	0.087	4.11	332
		8/17/2020	23.01	7.40	98	0.117	6.77	101
		8/18/2020	23.12	7.60	140	0.135	6.47	72.2
		8/19/2020	23.31	7.33	136	0.161	5.9	34.1
		8/20/2020	23.45	7.45	203	0.139	5.34	40.1
		8/21/2020	23.43	7.33	126	0.168	4.86	23.5
		8/22/2020	22.99	7.55	131	0.156	6.24	109
SW-10	Rocky River (Downgradient of Clarke River confluence)	8/15/2020	25.44	7.56	127	0.169	6.18	77.7
		8/16/2020	24.14	7.34	125	0.091	5.39	459
		8/17/2020	23.15	7.31	113	0.134	6.16	115
		8/18/2020	23.52	7.62	142	0.158	6.36	154
		8/19/2020	23.54	7.2	147	0.191	5.46	3.89
		8/20/2020	23.1	7.45	158	0.112	5.62	219
		8/21/2020	23.61	7.2	152	0.124	4.95	35.1
		8/22/2020	23.39	7.53	128	0.163	5.43	62.3
SW-11	Rocky River (Downgradient of Mallard Creek)	8/15/2020	25.01	7.60	125	0.155	7.15	143
		8/16/2020	24.24	7.02	153	0.086	5.33	466
		8/17/2020	23.20	7.3	128	0.112	6.82	144
		8/18/2020	23.6	7.59	121	0.143	6.36	90.5
		8/19/2020	23.4	7.11	191	0.151	4.2	105
		8/20/2020	23.06	7.55	201	0.098	5.05	359
		8/21/2020	23.33	6.88	198	0.143	3.67	48.9
		8/22/2020	23.28	7.58	124	0.139	6.29	55.6
SW-12	Rocky River (Downgradient of Back Creek)	8/15/2020	25.03	7.61	130	0.159	6.98	157
		8/16/2020	24.22	7.22	150	0.091	6.01	433
		8/17/2020	23.10	7.45	121	0.105	6.74	152
		8/18/2020	23.73	7.73	120	0.141	7.07	117
		8/19/2020	23.31	6.9	226	0.153	5.45	56.8
		8/20/2020	23.12	7.72	119	0.096	5.83	565
		8/21/2020	23.36	6.38	266	0.138	4.66	51.3
		8/22/2020	23.27	7.74	124	0.148	6.11	93.7

Note:

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**Table 2. Surface Water General Parameter Measurements
2020-L1-SR2448 Incident**

Location ID	Description	Date	Temperature (°C)	pH (STU)	ORP (mV)	Conductivity (mS/cm)	DO (mg/L)	Turbidity (NTU)
SW-Seep	Downgradient of Spill Location	9/1/2020	25.73	5.6	76	0.13	1.2	228
		9/2/2020	28.17	7.13	171	0.121	2.95	6.97
		9/3/2020	31.55	6.24	183	0.113	4.99	516
		9/10/2020	25.85	7.16	114	0.12	6.24	188
		9/17/2020	22.23	7.3	108	0.098	5.81	566
		9/19/2020	22.30	5.66	132	0.082	0	190
		9/24/2020	20.94	7.02	168	0.03	2.31	336
		9/26/2020	20.81	6.55	157	0.063	3.79	645
		10/1/2020	31.28	6.27	64	0.066	3.98	0
		10/7/2020	20.20	5.97	179	0.109	6.35	24.9
		10/12/2020	23.51	6.06	225	0.098	3.94	98
		10/22/2020	21.86	6.17	55	0.113	8.47	728
		10/31/2020	18.52	6.65	131	0.076	9.83	373
		11/5/2020	19.86	6.78	138	0.048	6.09	86.5
		SW-Confluence	Downgradient of Spill Location	9/1/2020	23.88	6.46	59	0.225
9/2/2020	28.91			7.69	177	0.13	6.51	156
9/3/2020	28.58			7.16	148	0.249	7.1	245
9/10/2020	23.89			6.46	19	0.279	1.27	159
9/17/2020	22.36			7.45	176	0.123	6.45	59.2
9/19/2020	20.62			7.58	131	0.116	4.93	86.7
9/24/2020	18.59			6.13	188	0.165	10.93	234
9/26/2020	20.36			6.86	151	0.086	2.3	2.03
10/1/2020	18.98			6.55	88	0.14	1.89	358
10/7/2020	21.56			6.36	143	0.279	5	29.2
10/12/2020	23.52			6.26	218	0.114	8.4	262
10/22/2020	20.08			6.59	161	0.242	9.1	704
10/31/2020	12.46			7.37	162	0.109	4.72	245
11/5/2020	17.09			6.41	156	0.084	4.99	202

Note:

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