QUARTERLY MONITORING REPORT

FEBRUARY 2020 – APRIL 2020

COLONIAL PIPELINE COMPANY – BEL AIR PUMP STATION
2942 CHARLES STREET, FALLSTON, HARFORD COUNTY, MARYLAND

MDE CASE NO. 18-0459HA

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ACRONYM LIST

AMSL	Above Mean Sea Level
BGS	Below Ground Surface
CDP	Census-Designated Place
CSM	Conceptual Site Model
DNR	Department of Natural Resources
FEMA	Federal Emergency Management Agency
HA	Hand Auger
HCHD	Harford County Health Department
HDD	Horizontal Directional Drill(ing)
IMP	Integrity Management Program
LNAPL	Light Non-Aqueous Phase Liquid
LSD	Low Sulfur Diesel
MDE	Maryland Department of Environment
MDSPGP	Maryland State Programmatic General Permit
mg/kg	Milligram Per Kilogram
NPDWS	National Priority Drinking Water Standard
NRCS	Non-Residential Cleanup Standard
PID	Photoionization Detector
PPM	Part(s) Per Million
RCS	Residential Cleanup Standard
ROO	Report of Observation
ROW	Right of Way
TP	Test Pit
TPH-DRO	Total Petroleum Hydrocarbons Diesel Range Organics
TPH-GRO	Total Petroleum Hydrocarbons Gasoline Range Organics
ULSD	Ultra-Low Sulfur Diesel
USACE	United States Army Corps of Engineers
USEPA	Unites States Environmental Protection Agency
USGS	United State Geological Survey
VOC	Volatile Organic Compound
WBWR	West Branch Winters Run
µg/L	Microgram Per Liter

1.0 INTRODUCTION

At the request of the Maryland Department of the Environment (MDE) in correspondence dated May 15, 2018 (**Appendix A**), Colonial Pipeline Company (Colonial) has conducted monthly groundwater gauging and quarterly groundwater sampling events at the Colonial Bel Air Station (the Site) in response to a release of distillate petroleum products reported on March 7, 2018 (MDE Case No. 18-0459HA). The Site is a pump (or booster) station used to modulate pressure and flow rates on the main interstate pipeline and is located at 2942 Charles Street in Fallston, Maryland (**Figure 1**). The groundwater monitoring program, as directed by the MDE, consists of the following activities:

- monthly gauging of on-site monitoring wells for light non-aqueous phase liquid (LNAPL);
- quarterly sampling of the on-site monitoring well network;
- quarterly sampling of the residential and/or supply wells of the nine immediately adjacent properties; and
- quarterly reporting of the monitoring results.

This report represents the eighth ***Quarterly Monitoring Report*** presenting well gauging and sampling activities collected during the period of February 2020 through April 2020.

1.1 Request for Reduction of Residential Sampling Frequency

Colonial requests a reduction of the commercial and residential well monitoring requirements from quarterly to annually for all residences except for the 2932 Charles Street residence, which would remain on a quarterly basis based on its proximity to the Site.

A total of eight (8) quarterly rounds of residential private well sampling has been conducted between April 2018 and January 2020. An abbreviated round was completed in April 2020 with consideration of COVID-19 restrictions (see **Section 3.2.2**). Analytical results from the private wells have been non-detect for petroleum related compounds since the initial sampling event in April 2018 with the exception of two (2) anomalous results:

- Detection of chloroform, a common byproduct of chlorinating water and a non-petroleum related compound, occurred at the 2933 Charles Street residence well in January 2019. The detection of 3.4 µg/L was below the USEPA determined maximum contaminant level (MCL) of 80 µg/L, a threshold limit on the amount of substance that is allowed in drinking water under the Safe Water Drinking Act. Chloroform was not detected in this well in subsequent sampling events. These compounds detected are in no way related to the petroleum release.
- Chloroform, 2-chlorotuluene, 4-chlorotoluene, and toluene were detected in the 2935 Charles Street residence well in July 2019. All detections were reported below their respective USEPA MCL. These compounds are common degradation constituents of the chlorination process conducted on drinking water wells after maintenance is conducted and are not related to the petroleum release. On July 4, 2019, six days before sampling, maintenance on the well pump was conducted due to an electrical issue as reported by homeowner. Resampling of this well was completed on August 2019 and no detectable concentrations of the analyzed compounds were reported.

Based on the eight (8) consecutive rounds of residential private well sampling reporting either no-detectable concentrations or concentrations below the USEPA MCL of compounds not related to a petroleum release, the following reduction of residential private well sampling is proposed (see **Figure 3**):

- Continued quarterly sampling of the 2932 Charles Street residential well based on its proximity to the Site.
- Reduced sampling frequency of all other properties cited in the May 15, 2018 MDE directive letter from quarterly to annually. Annual sampling would start the quarter after MDE approval and continue thereafter during the July sampling event.

Since the majority of property owners elected to defer the April 2020 sampling event due to COVID-19 concerns, Colonial intends to conduct the full round of private well sampling in July 2020 as required by the May 15, 2018 MDE directive letter. The reduction of sampling, if approved, would start for the October 2020 quarterly sampling event.

1.2 Background

On March 7, 2018, Colonial personnel discovered LNAPL in the pipeline system valve observation access wells during a routine site inspection. The main line (Line 03) was shut down thereafter, and upstream and downstream pipeline flow block valves were closed. The MDE and Harford County were contacted, and emergency response actions were initiated. The release was later determined to be a mix of distillate products (kerosene and diesel).

Initial Site assessment observations indicated that released LNAPL had entered the facility stormwater yard drain system and preferentially moved to the valve observation access wells, the oil/water separator (OWS), and secondary containment (stormwater) pond. Facility containment actions were implemented that limited the spread of the release beyond these areas. The source of the release was discovered on the 20-inch alternate discharge line of the pumping station loop in the early morning of March 8, 2018.

Following the repair and response activities, subsurface investigations were initiated to characterize the extent of petroleum impacts, and interim remedial measures (IRM) were conducted to remove source contamination at the site. During additional subsurface investigation in the vicinity of the pumping loop, LNAPL was discovered north of the pumping loop, referred to as the HA-3 Area. LNAPL in the HA-3 Area is attributed to a historic gasoline release and is not associated with the March 7, 2018 release.

To date, several rounds of subsurface investigations and remedial measures have been conducted at the site. Results of these investigations and remedial measures are presented in the ***Subsurface Investigation Report*** (SIR) submitted to MDE on June 12, 2018 and ***Subsurface Investigation Report Amendments I and II*** submitted to MDE in July 2018 and October 2018, respectively.

1.3 Report Outline

Section 2.0 provides a description of the Site and surrounding area. **Section 3.0** describes the monthly gauging and quarterly monitoring activities conducted and associated results. Findings, conclusions, and recommendations are presented in **Section 4.0**. References are provided in **Section 5.0**.

2.0 SITE DESCRIPTION

The 2942 Charles Street property is located within Fallston, Harford County, Maryland. The Site contains an Operations Building, an electrical substation, three (3) aboveground pipeline booster pumps (Units 1 through 3), and an aboveground pressure relief tank. In addition, the pipeline booster station includes both aboveground and underground piping, controls, and related equipment. The booster station pumps are used to move the product through the pipeline at a desired flow rate and pressure. An aerial site plan with current topography is presented in **Figure 2**, and a site plan is presented as **Figure 4**. The full site description, discussion of the geologic and hydrologic setting, and conceptual site model were previously submitted in the June 2018 SIR and associated subsequent amendments as well as summarized in previous Quarterly Monitoring Reports for periods ending April 2018, July 2018, October 2018, and January 2019.

3.0 MONTHLY AND QUARTERLY MONITORING

In the MDE "Request for Additional Monitoring and Half-Mile Well Survey" letter dated May 15, 2018, the MDE requested monthly gauging and quarterly sampling of the six on-site monitoring wells. Quarterly sampling of the on-site water supply well, 10 off-site residential water wells, and a supply well to a commercial property were also requested. Quarterly sampling events are to be conducted in January, April, July, and October.

The original monitoring well network consisted of monitoring wells MW-1 through MW-6. The following activities have been conducted to expand the monitoring well network:

- In March 2019, five (5) monitoring wells (MW-7 through MW-11) were installed to expand the monitoring well network. Details of these installation activities are discussed in the ***Quarterly Monitoring Report (February 2019 to April 2019)***.
- In October 2019, the on-site water supply well was converted to a deep monitoring well (MW-8D) and has been added to the monitoring well network. Details of the supply well conversion is discussed in the ***Quarterly Monitoring Report (August 2019 to October 2019)***.
- In December 2019, two monitoring wells (MW-12 and MW-13) were installed to expand the monitoring well network. Details of these installation activities are discussed in the ***Quarterly Monitoring Report (November 2019 to January 2020)***.

As outlined in the MDE-approved December 2018 ***Corrective Action Plan*** (December 2018 CAP), MW-5 has been converted to a recovery well (RW-5) and incorporated in the recovery well network for the groundwater extraction pilot test program. This well is no longer part of the quarterly monitoring events and is only being sampled to evaluate the progress of the groundwater extraction pilot test program. Groundwater results at RW-5 are discussed in the ***Groundwater Extraction Pilot Test Report*** which will be submitted to the MDE under a separate cover.

The additional monitoring wells will continue to be sampled as part of the quarterly monitoring program, which is currently comprised of MW-1 through MW-4 and MW-6 through MW-13 (including MW-8D).

3.1 Monthly Gauging

Monthly gauging of on-site monitoring wells was conducted on February 6, March 5, and April 29, 2020. Fluid levels were measured using an oil/water interface probe. Consistent with previous gauging events**,** light non-aqueous phase liquid (LNAPL) was not detected in the on-site monitoring wells during this quarterly monitoring period. Gauging results from 2019 to present are summarized on **Table 1** and historic gauging results since April 2018 are included as **Appendix B**.

The water measurements included in **Table 1** were used to construct the potentiometric surface maps included as **Figure 5**, **Figure 6**, and **Figure 7**. The potentiometric contour lines and apparent direction of groundwater flow indicate that, as the water table has risen, there was been a subtle southerly shift in the ground water flow directions. Specifically, east of the station control building and prior to November 2018 the flow direction was northeastward and has shifted and remained more easterly toward MW-6 since December 2018. Currently, water levels have receded closer to elevations originally

measured in the spring of 2018. Expansion of the groundwater monitoring well network has confirmed the subtle shift in groundwater flow direction.

3.2 Quarterly Groundwater Sampling

3.2.1 Monitoring Well Sampling

Quarterly groundwater sampling of the thirteen on-site monitoring wells was conducted on April 29 and April 30, 2020. Monitoring wells were sampled via the low flow/micro-purge method. A decontaminated stainless-steel low-flow submersible pump and disposable polyethylene tubing were used to sample groundwater. Field sampling personnel maintained a purge rate in a range of 0.1 to 0.5 liters per minute (L/min) without exceeding the well discharge rate. Utilizing a multi-parameter water quality meter, field personnel monitored and recorded the pH, conductivity, temperature, dissolved oxygen, oxidation-reduction potential, and turbidity at set 5-minute intervals until the water quality parameters stabilized. Field parameter measurements and stabilization criteria are provided on the field sampling forms included as **Appendix C**.

Prior to purging, the condition of each well was inspected, water levels were gauged, and volatile organic compound (VOC) concentration in the ambient air (background) and in the well casing were measured and recorded using a calibrated photoionization detector (PID). Samples were collected in pre-preserved, laboratory provided bottle ware and placed on ice in a cooler for storage and transport. Appropriate chain of custody documentation accompanied the chilled samples to Caliber Analytical Services, LLC (Caliber) of Towson, Maryland for analysis. Groundwater samples were analyzed for Total Petroleum Hydrocarbon Diesel Range Organics (TPH-DRO), TPH-Gas Range Organics (GRO), and VOCs including fuel oxygenates and naphthalene. Groundwater monitoring results for contaminants of concern (COCs) from quarterly sampling events spanning from April 2018 to April 2020 are presented on **Table 2** and **Figure 8**. Complete results including all previous quarterly monitoring events are provided in **Appendix D**. The laboratory analytical reports for the monitoring wells are provided in **Appendix E**.

Analytical results from the April 29 and April 30, 2020 monitoring event reported the following exceedances of MDE Groundwater Quality Standards (GWQS) for Type I Aquifers:

- Benzene concentrations exceeded the GWQS of 5 micrograms per liter (µg/L) at MW-2, MW-12, and MW-13 at concentrations of 8 µg/L, 78 µg/L, and 900 µg/L, respectively.
- Naphthalene concentrations exceeded the GWQS of 0.65 µg/L at MW-11, MW-12, and MW-13 at concentrations of 18 µg/L, 150 µg/L, and 13 µg/L, respectively. Naphthalene was reported as “non-detect” in all other wells. However, as shown on **Table 2**, the method detection limits (LLQ – Lowest Level of Quantitation) did not attain the GWQS.
- 1,2,4-Trimethylbenzene (1,2,4-TMB) exceeded the GWQS of 5.6 µg/L at MW-12 at a concentration of 320 µg/L.
- 1,3,5-Trimethylbenzene (1,3,5-TMB) exceeded the GWQS of 6 µg/L at MW-12 at a concentration of 26 µg/L.
- TPH-DRO exceeded the GWQS of 47 µg/L at MW-2, MW-4, MW-10through MW-13 at concentrations ranging from 240 µg/L to 1,800 µg/L. TPH-DRO was reported as non-detect in all other wells. However, as shown on **Table 2**, the LLQ did not attain the GWQS for TPH-DRO.

- TPH-GRO exceeded the GWQS of 47 µg/L at MW-2, MW-11, MW-12, and MW-13 at concentrations ranging from 270 µg/L to 6,700 µg/L. TPH-GRO was reported as non-detect in all other wells. However, as shown on **Table 2**, the LLQ did not attain the GWQS for TPH-GRO.

3.2.2 Bel Air Station Private Well Sampling

On April 23, Colonial requested a waiver from the MDE for the April 2020 private well sampling to mitigate potential risks to public health and safety associated with transmission of COVID-19. In response, the MDE requested that Colonial offer the residents the opportunity to make the decision as to whether to postpone the sampling event. On April 27, 2020, Colonial transmitted letters via email to the residents offering voluntary participation in the April 2020 sampling event. Hard copy of the letters were sent to the residents via Federal Express on April 28, 2020.

Nine of the ten private well sampling property owners responded to the April 2020 request for sampling. Of the nine responses, two requested that the sampling be completed on April 30, 2020 (2929 Charles Street and 2226 Rutledge Road) and seven deferred to the July 2020 event. The 2932 Charles Street residence did not respond to the sampling request sent via email on April 27, 2020, sent via Fedex for receipt on April 28, 2020, and also did not respond an in-person request attempted by a Colonial representative on the afternoon of April 29, 2020. Since there was no response from the 2932 Charles Street residence, their sampling has been deferred to July 2020. This information was transmitted to the MDE on April 29, 2020 and the adjusted private well sampling event and participants was approved by the MDE in an email transmitted April 30, 2020.

Entrance into the residences allowing the April 30, 2020 sampling was done in accordance with Executive Order(s) concerning public safety and social distancing measures issued by Maryland Governor Hogan to limit the spread of COVID-19. One sampler entered the residence wearing a mask, nitrile gloves, and practiced social distancing at all times during the sampling effort. At no time did the sampler have direct contact with the property owner or representative of the property owner.

On April 30, 2020, samples were collected from the two residences referenced above. Samples were collected from the pressure tank at each location. Samples were collected in pre-preserved, laboratory prepped bottle ware, placed in a cooler on ice, and submitted to Caliber under chain of custody for laboratory analysis of drinking water constituents by USEPA Method 524.2. Analytical results of the residential wells and the off-site commercial supply well were non-detect for all compounds. Results of the well sampling are anticipated to be provided to all property owners and/or tenants in June 2020. Residential well sampling logs are provided in **Appendix F**. Analytical results are summarized on **Table 3**. The analytical laboratory report for the commercial and residential well is provided in **Appendix G**.

On October 28, 2019, the Bel Air Station supply well was retrofitted to a monitoring well screened in the upper bedrock zone. The supply well is no longer being sampled as part of the private well quarterly monitoring program, but instead is part of the monitoring well quarterly monitoring program as MW-8D.

4.0 Findings, Conclusions & Recommendations

Colonial is continuing groundwater investigation of dissolved-phase COCs present in groundwater that are most likely associated with one (1) of two (2) identified on-site source areas from the March 7, 2018 distillate release and the HA-3 LNAPL Area discovered during remediation of the distillate release. Subsurface investigations, specifically the results of post-excavation soil and groundwater investigation, indicate the distillate release discovered on March 7, 2018 resulted in limited impact to groundwater. However, gasoline-related constituents from the HA-3 LNAPL Area have been migrating downgradient with groundwater at concentrations greater than the applicable MDE GWQS for Type 1 Aquifers.

As concluded in previous reports, it appears that the migration of COCs in groundwater may have been exacerbated by the ground disturbance associated with the pipeline repair and related system integrity work (alternate suction leg removal and pumping leg recoat), remedial actions, and record precipitation during 2018 and 2019. Prior to the release discovered on March 7, 2018, the yard was equipped with a drainage system for stormwater management. During IRM, the drainage system was excavated, and shallow soils were disturbed. As part of the stormwater management program during the Site work, the excavations were routinely dewatered for both off-site recycling and on-site treatment and discharge in accordance with a General Permit for the Discharge of Treated Ground Water. The yard drainage system has been replaced, but surface disturbances continued at the Site for pipeline recoating and remedial activities through October 2018. During these disruptions of the engineered stormwater management system, the abnormally high precipitation infiltrated the subsurface and influenced the distribution of the previously stable dissolved-phase petroleum constituents within, and hydraulically downgradient of, the HA-3 Area. The pipeline repair and recoat activities were completed in late October 2018, and the pumping loop area of the Site has been restored to grade.

From April 4, 2019 to June 24, 2019, Colonial started a groundwater extraction pilot test program removing groundwater and vapor from five (5) installed recovery wells located between the HA-3 Area and MW-5. The pilot test was re-started in early August 2019 after the July 2019 quarterly sampling event and has continued to date with periodic shutdown for quarterly sampling events conducted in October 2019, January 2020, and April 2020. Results of the pilot test will be reported in a ***Groundwater Extraction Pilot Test Report*** to be prepared and submitted after the pilot test is finished.

Monthly LNAPL gauging and quarterly groundwater monitoring were implemented to assess changes in groundwater quality related to the on-going soil excavation activities being conducted at the Site. The following sections summarize the findings, conclusions, and recommendations developed from data collected during the February 2020 through April 2020 quarterly monitoring period.

4.1 Findings and Conclusions – Monthly Gauging and Quarterly Monitoring

<u>Monthly Gauging</u>

LNAPL has not been detected in the on-site monitoring wells during any gauging event.

<u>MW-1, MW-3, MW-6, MW-8, MW-8D, and MW-9:</u>

No detectable concentrations of COCs were reported.

MW-1:

All COC's remain non-detect since monitoring began in April 2019. However, as shown on **Table 2**, the LLQ did not attain the MDE GWQS for naphthalene, TPH-DRO, and TPH-GRO.

MW-2:

This monitoring well is located downgradient from and in closest proximity to the release discovered in March 2018. This is the first well in which exceedance of MDE GWQS were reported. Benzene, TPH-DRO, and TPH-GRO remain present at concentrations above their respective MDE GWQS. As shown on **Table 2**, the LLQ did not attain the MDE GWQS for naphthalene.

- Benzene has decreased from 16 µg/L in January 2020 to 8 µg/L in April 2020, exceeding its GWQS of 5 µg/L. Benzene has decreased from its highest exceedance at 83 µg/L in July 2018.
- Toluene, ethylbenzene, xylenes, MTBE, and naphthalene remain below their respective GWQS since monitoring began in April 2018.
- 1,2,4-TMB and 1,3,5-TMB remain below their respective GWQS since analysis of these compounds began in July 2019.
- TPH-DRO has fluctuated throughout the monitoring events. TPH-DRO has increased slightly from 340 µg/L in January 2020 to 370 µg/L in April 2020, exceeding the GWQS of 47 µg/L. TPH-DRO has decreased overall from its highest concentration of 630 µg/L in October.
- TPH-GRO has fluctuated throughout the monitoring events. TPH-GRO has remained the same from January 2020 at 270 µg/L, exceeding the GWQS of 47 µg/L. TPH-GRO has decreased an order of magnitude from its highest concentration of 2,100 µg/L in July 2018.

These results indicate that source removal of soil in proximity to the release discovered in March 2018 is allowing constituents to naturally attenuate.

MW-3:

All COC's remain non-detect since the last exceedance of TPH-DRO in April 2019. However, as shown on **Table 2**, the LLQ did not attain the MDE GWQS for naphthalene, TPH-DRO, and TPH-GRO.

MW-4:

TPH-DRO is present at concentrations above its GWQS of 47 µg/L. As shown on **Table 2**, the LLQ did not attain the MDE GWQS for TPH-GRO, and naphthalene.

- Benzene remains non-detect since January 2020 and have decreased from its highest detection at 27 µg/L in July 2019
- Toluene, ethylbenzene, xylenes, MTBE, naphthalene remain below their respective GWQS since monitoring began in April 2018.
- 1,2,4-TMB and 1,3,5-TMB remain below their respective GWQS since analysis of these compounds began in July 2019.
- TPH-DRO has increased from non-detect in January 2020 to 240 µg/L in April 2020, exceeding the GWQS of 47 µg/L. TPH-DRO has decreased from its highest detection of 340 µg/L in October 2018.
- TPH-GRO remains below its GWQS since its last exceedance of 320 µg/L in July 2019.

MW-6:

All COCs have been detected below their respective GWQS. As shown on **Table 2**, the LLQ did not attain the MDE GWQS for naphthalene, TPH-DRO, and TPH-GRO.

- Benzene decreased from 3 µg/L in January 2020 to non-detect in April 2020. Benzene has decreased from its highest exceedance at 47 µg/L in July 2019.
- Toluene, ethylbenzene, xylenes, MTBE, and naphthalene remain below their respective GWQS since monitoring began in April 2018.
- 1,2,4-TMB and 1,3,5-TMB remain below their respective GWQS since analysis of these compounds began in July 2019.
- TPH-DRO remains below its GWQS since July 2018.
- TPH-GRO remains below its GWQS since January 2020.

These results indicate no further delineation is warranted at MW-6 at this time.

MW-7:

Benzene is present at a concentration that meets the GWQS of 5 µg/L. As shown on **Table 2**, the LLQ did not attain the MDE GWQS for naphthalene, TPH-DRO, and TPH-GRO.

- Benzene has increased from non-detect in January 2020 to 5 µg/L in April 2020.
- Toluene, ethylbenzene, xylenes, MTBE, and naphthalene remain below their respective GWQS since monitoring began in April 2019.
- 1,2,4-TMB and 1,3,5-TMB remain below their respective GWQS since analysis of these compounds began in July 2019.
- TPH-DRO remains below its GWQS since monitoring began in April 2019.
- TPH-GRO remains below its GWQS since January 2020.

The increase of benzene concentrations in MW-7 is likely precipitation related. This monitoring well is located within close proximity to the northern drainage ditch that acts as a groundwater recharge area. When precipitation is high, groundwater is mounded in this area pushing groundwater flow, and associated impacts, to the east. When participation is low, the northeasterly component of groundwater flow is maintained causing impacts to reach the well. MW-7 groundwater levels have decreased 4.5-feet since installation in April 2019. MW-7 will continue to be evaluated and will be incorporated into the remedial action if needed.

MW-8

All COCs have been detected below their respective GWQS. As shown on **Table 2**, the LLQ did not attain the MDE GWQS for naphthalene, TPH-DRO, and TPH-GRO.

- Benzene remains non-detect or below its GWQS since monitoring began in April 2019.
- Toluene, ethylbenzene, xylenes, MTBE, and naphthalene remain below their respective GWQS since monitoring began in April 2019.
- 1,2,4-TMB and 1,3,5-TMB remain below their respective GWQS since analysis of these compounds began in July 2019.
- TPH-DRO remains below its GWQS since July 2018.

- TPH-GRO remains below its GWQS since January 2020.

MW-8D:

All COC's remain non-detect since monitoring began in January 2020. However, as shown on **Table 2**, the LLQ did not attain the MDE GWQS for naphthalene, TPH-DRO, and TPH-GRO.

MW-9:

All COC's remain non-detect or below its respective GWQS since monitoring began in April 2019. However, as shown on **Table 2**, the LLQ did not attain the MDE GWQS for naphthalene, TPH-DRO, and TPH-GRO.

MW-10:

TPH-DRO is present above its GWQS of 47 µg/L. As shown on **Table 2**, the LLQ did not attain the MDE GWQS for naphthalene and TPH-GRO

- Benzene remains non-detect since monitoring began in April 2019.
- Toluene, ethylbenzene, xylenes, and MTBE remain below their respective GWQS since monitoring began in April 2019.
- Naphthalene remains below its GWQS since its last exceedance at 19 µg/L in April 2019.
- 1,2,4-TMB and 1,3,5-TMB have decreased below their respective GWQS since their last exceedances of 16 µg/L and 24 µg/L, respectively, in January 2020.
- TPH-DRO has decreased from 570 µg/L in January 2020 to 530 µg/L in April 2020, exceeding the GWQS of 47 µg/L. TPH-DRO has decreased from its highest detection of 850 µg/L in April 2019.
- TPH-GRO has decreased from 270 µg/L in January 2020 to non-detect in April 2020. THH-GRO has decreased from its highest detection of 3,800 µg/L in April 2019 to non-detect.

These results indicate that the groundwater extraction pilot test have been reducing concentrations since starting in April 2019.

MW-11:

Naphthalene; TPH-DRO; and TPH-GRO concentrations are present above their respective GWQS. As shown on **Table 2**, the LLQ did not attain the MDE GWQS for naphthalene and TPH-DRO.

- Benzene remains non-detect or below its GWQS since its last exceedance in July 2019. Benzene has decreased from its highest exceedance at 100 µg/L in April 2019.
- Toluene, ethylbenzene, xylenes, and MTBE remain below their respective GWQS since monitoring began in April 2019.
- Naphthalene has remained the same from January 2020 at 18 µg/L, exceeding that GWQS of 0.65 µg/L. Naphthalene has decreased from its highest exceedance of 44 µg/L in April 2019.
- 1,2,4-TMB decreased from 12 µg/L in January 2020 to non-detect in April 2020, below its GWQS. 1,2,4-TMB has decreased from its highest exceedance at 36 µg/L in July 2019.
- 1,3,5-TMB remains below its GWQS. 1,3,5-TMB has decreased from its highest exceedance at 15 µg/L in July 2019.

- TPH-DRO decreased from 340 µg/L in January 2020 to 310 µg/L, exceeding the GWQS of 47 µg/L. TPH-DRO has decreased from its highest concentration of 730 µg/L in April 2019.
- TPH-GRO decreased from 1,600 µg/L in January 2020 to 1,200 µg/L, exceeding the GWQS of 47 µg/L. TPH-GRO has decreased from its highest concentration of 3,000 µg/L in April 2019.

Similar to MW-10, these results indicate that the groundwater extraction pilot test have been reducing concentrations.

MW-12:

Benzene; naphthalene; 1,2,4-TMB; 1,3,5-TMB; TPH-DRO; and TPH-GRO concentrations are present above their respective GWQS.

- Benzene decreased from 4,100 µg/L in January 2020 to 900 µg/L in April 2020, exceeding the GWQS of 5 µg/L.
- Toluene decreased from 1,200 µg/L in January 2020 to 67 µg/L in April 2020, below the GWQS of 1,000 µg/L.
- Ethylbenzene remains below its GWQS since monitoring began in January 2020.
- Xylenes decreased from 2,500 µg/L in January 2020 to 350 µg/L in April 2020, below the GWQS of 1,000 µg/L.
- MTBE decreased from 250 µg/L in January 2020 to non-detect in April 2020, below the GWQS of 20 µg/L.
- Naphthalene decreased from 190 µg/L in January 2020 to 150 µg/L in April 2020, exceeding the GWQS of 0.65 µg/L.
- 1,2,4-TMB decreased from 680 µg/L in January 2020 to 320 µg/L in April 2020, exceeding the GWQS of 5.6 µg/L.
- 1, 3,5-TMB decreased from 170 µg/L in January 2020 to 26 µg/L in April 2020, exceeding the GWQS of 6 µg/L.
- TPH-DRO decreased from 5,100 µg/L in January 2020 to 1,800 µg/L in April 2020, exceeding the GWQS of 47 µg/L.
- TPH-GRO decreased from 16,000 µg/L in January 2020 to 6,700 µg/L in April 2020, exceeding the GWQS of 47 µg/L.

The April 2020 sampling event exceedances of COCs confirms that the groundwater plume is migrating under the Station's electric substation, down gradient from the HA-3/MW-5 Areas towards MW-13. This sampling event also presents significant reduction of COCs concentrations indicating that the ongoing pilot test remedial action is effectively reducing the groundwater plume.

MW-13:

Benzene; naphthalene; TPH-DRO; and TPH-GRO concentrations are present above their respective GWQS.

- Benzene decreased from 530 µg/L in January 2020 to 78 µg/L in April 2020, exceeding the GWQS of 5 µg/L.
- Toluene, ethylbenzene, xylenes, and MTBE remain below their respective GWQS since monitoring began in January 2020.

- Naphthalene decreased from 33 µg/L in January 2020 to 13 µg/L in April 2020, exceeding the GWQS of 0.65 µg/L.
- 1,2,4-TMB decreased from 12 µg/L in January 2020 to non-detect in April 2020, below the GWQS of 5.6 µg/L.
- 1, 3,5-TMB remains non-detect since monitoring began in January 2020.
- TPH-DRO decreased from 410 µg/L in January 2020 to 280 µg/L in April 2020, exceeding the GWQS of 47 µg/L.
- TPH-GRO decreased from 1,700 µg/L in January 2020 to 540 µg/L in April 2020, exceeding the GWQS of 47 µg/L.

These results confirm further downgradient delineation of groundwater COCs is required beyond MW-13. These results also show a significant reduction in COCs moving downgradient from the substation indicating the ongoing pilot test remedial action is effectively reducing the groundwater plume.

Private Wells

Residential wells reported no detectable concentrations of target compounds.

4.2 Recommendations

As discussed above, additional groundwater investigation is required downgradient of MW-13. A remedial investigation work plan for the installation of several temporary drive points to determine the location of additional downgradient monitoring wells will be submitted under separate cover. New monitoring wells will be incorporated into the current monitoring program and will be gauged monthly and sampled quarterly with the rest of the monitoring well network.

5.0 References

TRC Environmental Corporation (TRC). 2018a. *Subsurface Investigation Report*. June 12.

TRC. 2018b. *Subsurface Investigation Report Amendment I*. July 18.

TRC. 2018c. *Subsurface Investigation Report Amendment II*. October 15.

Miller, Andrew B., Chief, Maryland Department of the Environment, to Carpenter, Stanley, Colonial Pipeline Company. 2018. *Request for Additional Monitoring and Half-Mile Well Survey, Case No. 2018-0459-HA, Colonial Pipeline – Bel Air Station*. May 15.

MDE. Monitoring Well Installation and Pilot Test Approval, February 26, 2019.

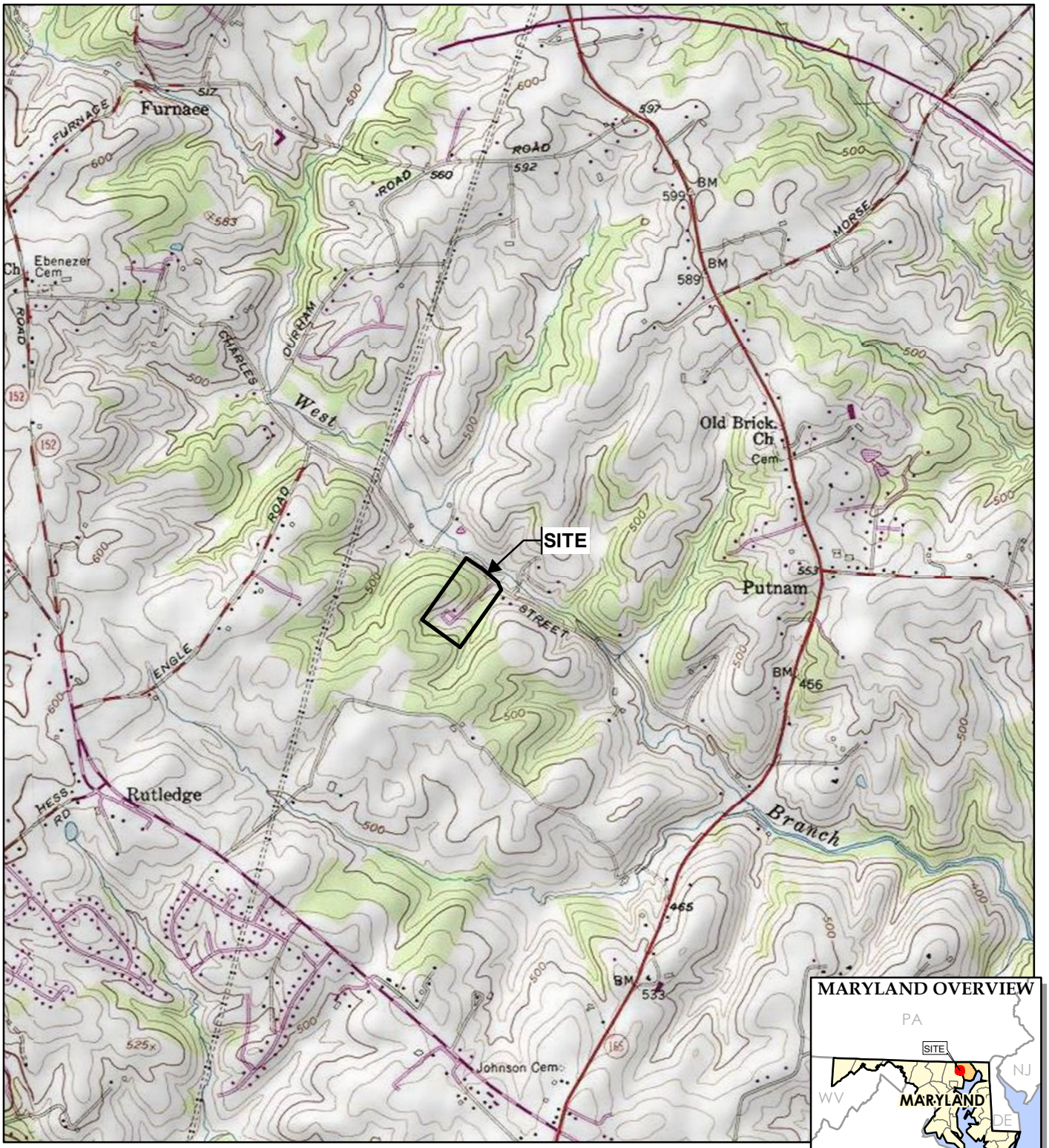
MDE. Report of Observation, March 11, 2019.

MDE. Report of Observation, April 4, 2019.

MDE. Work Plan Approval, November 22, 2019.

FIGURES

Figure 1 Site Location Map
Figure 2 Aerial Site Plan with Current Topography
Figure 3 Surrounding Properties Map
Figure 4 Site Plan
Figure 5 Groundwater Potentiometric Map – February 2020
Figure 6 Groundwater Potentiometric Map – March 2020
Figure 7 Groundwater Potentiometric Map and Analytical Results – April 2020
Figure 8 Groundwater Analytical Map – April 2020



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

N

1 " = 2,000 '
1:24,000

0 2,000 4,000 FEET

TRC

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Phone: 215.563.2122

TRC - GIS

PROJECT:

COLONIAL PIPELINE COMPANY
BEL AIR PUMP STATION
FALLSTON, HARFORD COUNTY, MARYLAND

TITLE:

SITE LOCATION MAP

DRAWN BY:	M. LOVELACE
CHECKED BY:	B. HECKER
APPROVED BY:	D. CARLSON
DATE:	MAY 2018
PROJ. NO.:	299980.0000
FILE:	299980-1000-001slm.mxd

FIGURE 1

S:\1-PROJECTS\COLONIAL_PIPELINE\FallstonMD\2018_299980 _2942_Charles\299980-1000-001slm.mxd -- Saved By: MLOVELACE on 5/30/2018, 10:48:02 AM

LEGEND

- APPROXIMATE RELEASE LOCATION
- MONITORING WELL LOCATION
- CREEK
- NATURAL GAS PIPELINE
- FIBER OPTIC CABLES PETROLEUM
- PIPELINE
- 1' MINOR CONTOUR
- 5' MAJOR CONTOUR
- PROPERTY BOUNDARY

NOTES

1. BASE MAP IMAGERY FROM MARYLAND iMAP WEB SERVICE LAYER, 2016/2017.
2. UTILITY LINE LOCATIONS ARE APPROXIMATE BASED ON SURFACE MARKINGS AND SITE OBSERVATIONS.

N

0 75 150 Feet

1 " = 150 '

1:1,800

COLONIAL PIPELINE COMPANY
BEL AIR PUMP STATION
FALLSTON, HARFORD COUNTY, MARYLAND

AERIAL SITE PLAN WITH CURRENT TOPOGRAPHY

DRAWN BY:	M. LOVELACE	PROJ. NO.:	299980.0000
CHECKED BY:	B. HECKER		
APPROVED BY:	D. CARLSON		**FIGURE 2**
DATE:	JUNE 2018		

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299980-0000-002.mxd

TRC - GIS
Coordinate System: NAD 1983 StatePlane Maryland FIPS 1900 Feet (Foot US)
Map Rotation: 0
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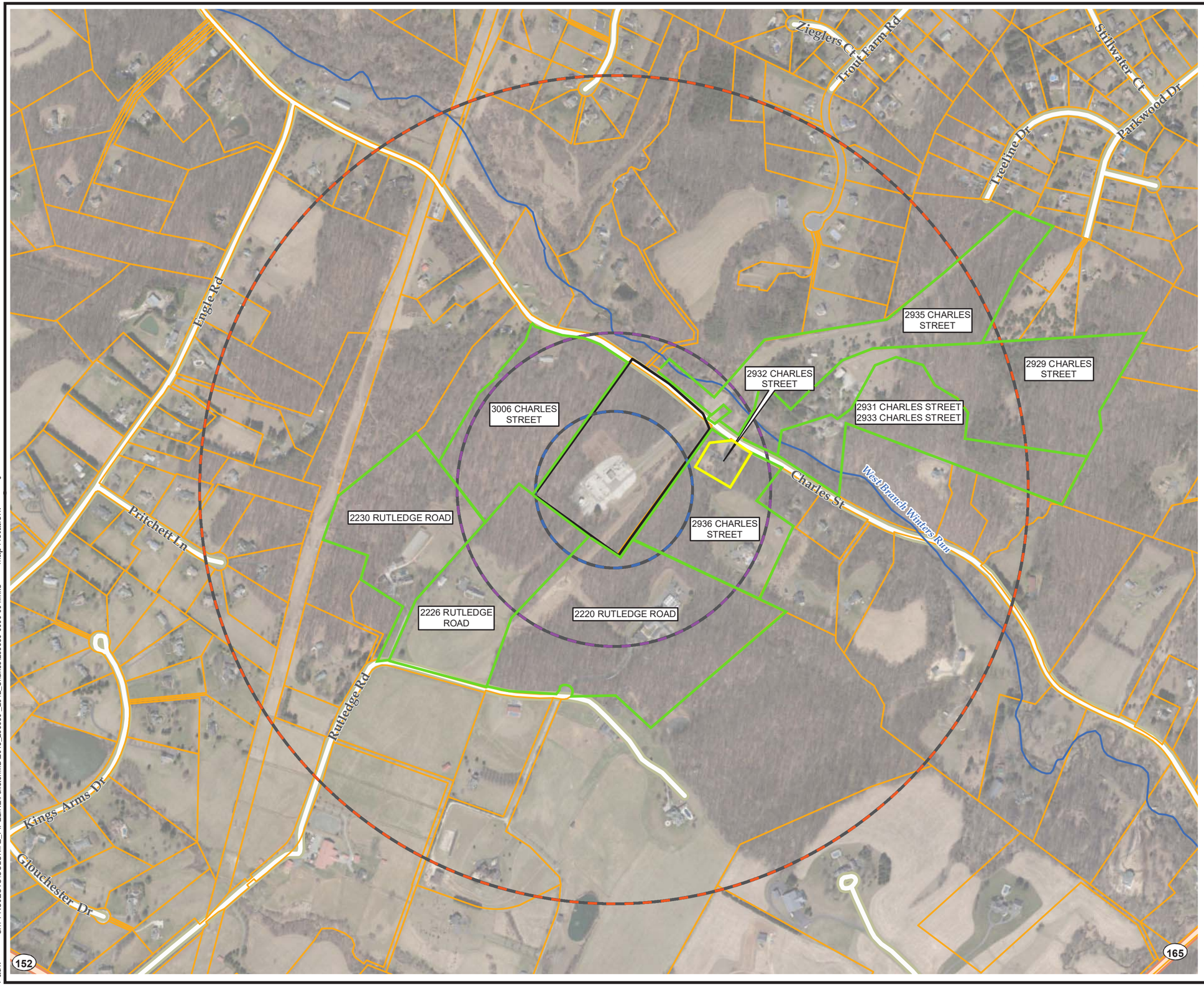

LEGEND

- CREEK
- PROPERTY BOUNDARY
- HARFORD COUNTY PARCEL BOUNDARIES
- 500' RADIUS
- 1000' RADIIUS
- HALF-MILE RADIUS
- RESIDENTIAL WELL SAMPLING LOCATION
- STREET ADDRESS
- PROPOSED PROPERTIES FOR ANNUAL PRIVATE WELL SAMPLING
- PROPOSED PROPERTY FOR CONTINUED QUARTERLY PRIVATE WELL SAMPLING

NOTES

1. BASE MAP IMAGERY FROM MARYLAND iMAP WEB SERVICE LAYER, 2016/2017.
2. SEE HARFORD COUNTY HEALTH DEPARTMENT RADIUS MAP IN APPENDIX B AND APPENDIX G FOR DETAIL.

N

0 300 600 Feet

1 " = 600 '

1:7,200

COLONIAL PIPELINE COMPANY
BEL AIR PUMP STATION
FALLSTON, HARFORD COUNTY, MARYLAND

SURROUNDING PROPERTIES MAP

DRAWN BY:	M. LOVELACE	PROJ. NO.:	299980.0000
CHECKED BY:	D. KUDLA		
APPROVED BY:	D. CARLSON		
DATE:	MARCH 2020		

FIGURE 3

TRC

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299980-0000-004.mxd

TRC - GIS

Plot Date: 6/11/2018, 15:22:08 PM by RSUEMNIGHT -- LAYOUT: ANSI B(11"x17")
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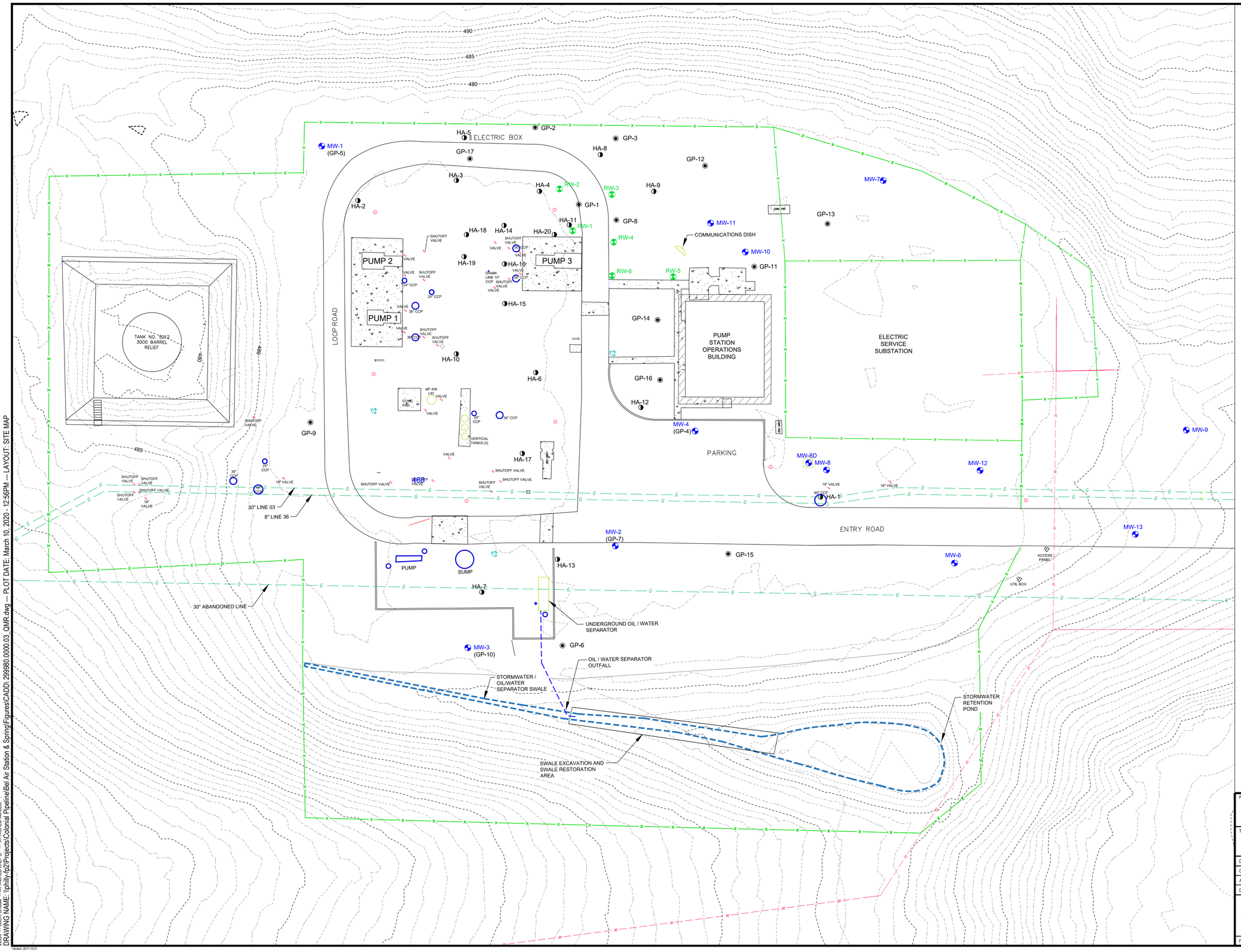
Coordinate System: NAD 1983 StatePlane Maryland FIPS 1900 Feet (Foot US)
Map Rotation: 0



LEGEND

GP-8	GEOPROBE BORING
MW-5	MONITORING WELL
RW-2	RECOVERY WELL
HA-9	HAND AUGER BORING
	LIGHT POST
	HYDRANT
	FENCE
	OVERHEAD ELECTRIC LINE
	UNDERGROUND GAS LINE

NOTES:

1. LOCATION OF STORMWATER SWALE AND STORMWATER RETENTION POND ARE APPROXIMATE.
2. VALVE AND SHUTOFF VALVE LOCATIONS ARE SURVEYED GENERAL POINTS OF REFERENCE FOR PUMP STATION CONTROL POINTS AND PROCESS CONTROL FEATURES.

0 20 40
SCALE IN FEET

PROJECT:
COLONIAL PIPELINE COMPANY
BEL AIR PUMP STATION
FALLSTON, HARFORD COUNTY, MARYLAND

TITLE:
SITE PLAN

DRAWN BY:	N. RASHID	PROJ. NO.:	299980.0000.0000
CHECKED BY:	D. CARLSON		**FIGURE 4**
APPROVED BY:	D. CARLSON		
DATE:	MAY 2019		

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Phone: 215.563.2122

FILE NO.: 299980.0000.03_QMR.dwg

26X4 -- USER: DKolb -- ATTACHED XREF'S: -- ATTACHED IMAGES:
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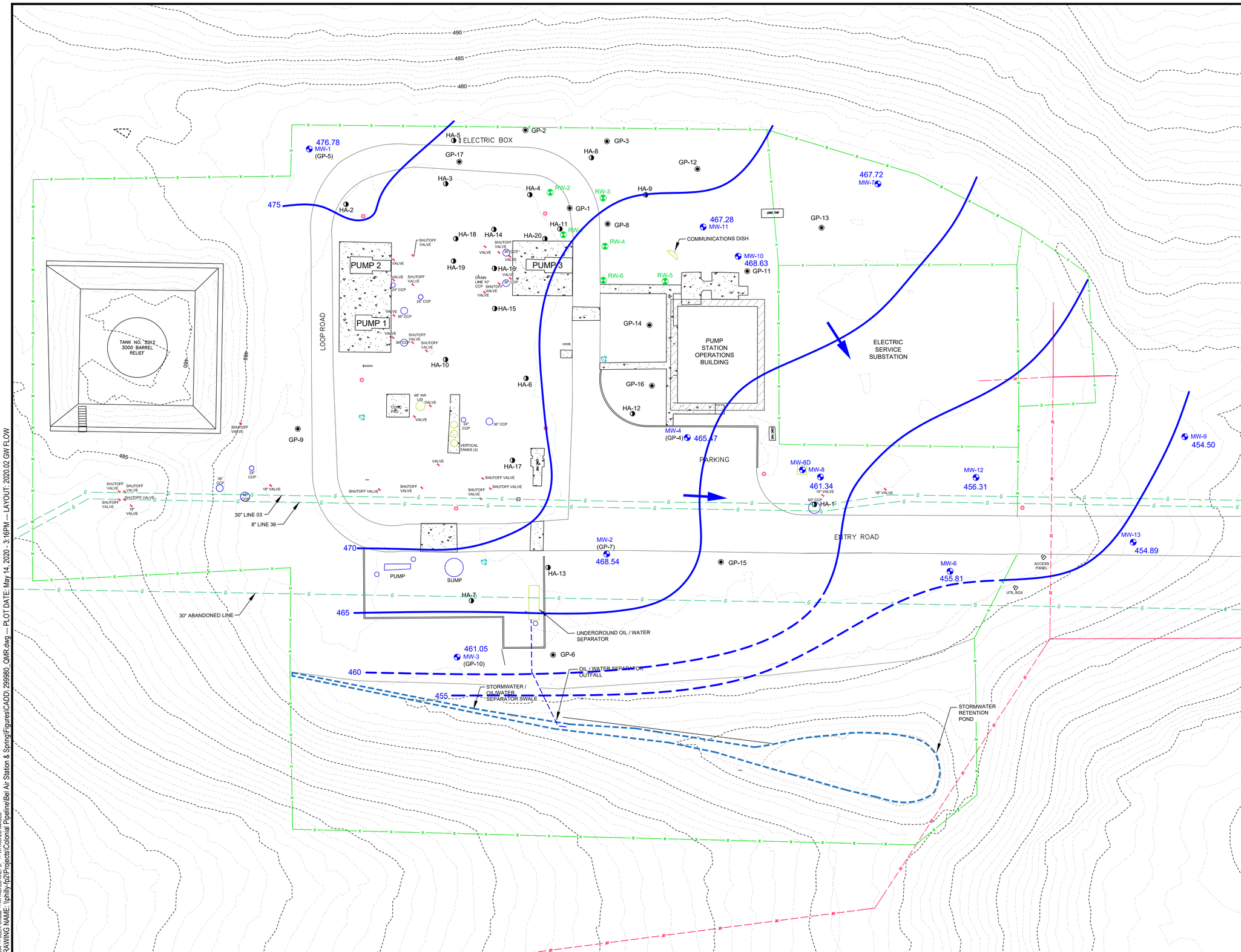
Version: 2017-10-21



LEGEND

GP-8	GEOPROBE BORING
MW-5	MONITORING WELL
RW-2	RECOVERY WELL
HA-9	HAND AUGER BORING
	LIGHT POST
	HYDRANT
	FENCE
	OVERHEAD ELECTRIC LINE
	UNDERGROUND GAS LINE
	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
	INFERRED GROUNDWATER FLOW DIRECTION

GROUNDWATER ELEVATION SHOWN IN FEET ABOVE MEAN SEA LEVEL (FT AMSL)

NOTES:

1. LOCATION OF STORMWATER SWALE AND STORMWATER RETENTION POND ARE APPROXIMATE.
2. VALVE AND SHUTOFF VALVE LOCATIONS ARE SURVEYED GENERAL POINTS OF REFERENCE FOR PUMP STATION CONTROL POINTS AND PROCESS CONTROL FEATURES.

PROJECT:

COLONIAL PIPELINE COMPANY
BEL AIR PUMP STATION
FALLSTON, HARFORD COUNTY, MARYLAND

TITLE:

GROUNDWATER POTENTIOMETRIC MAP
FEBRUARY 2020

DRAWN BY:	D. KUDLA	PROJ. NO.:	299980.0000.0000
CHECKED BY:	D. KUDLA		**FIGURE 5**
APPROVED BY:	D. CARLSON		
DATE:	MAY 2020		

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FILE NO.: 299980_QMR.dwg

ZIGA -- USER: DKudla -- ATTACHED XREF'S: -- ATTACHED IMAGES:
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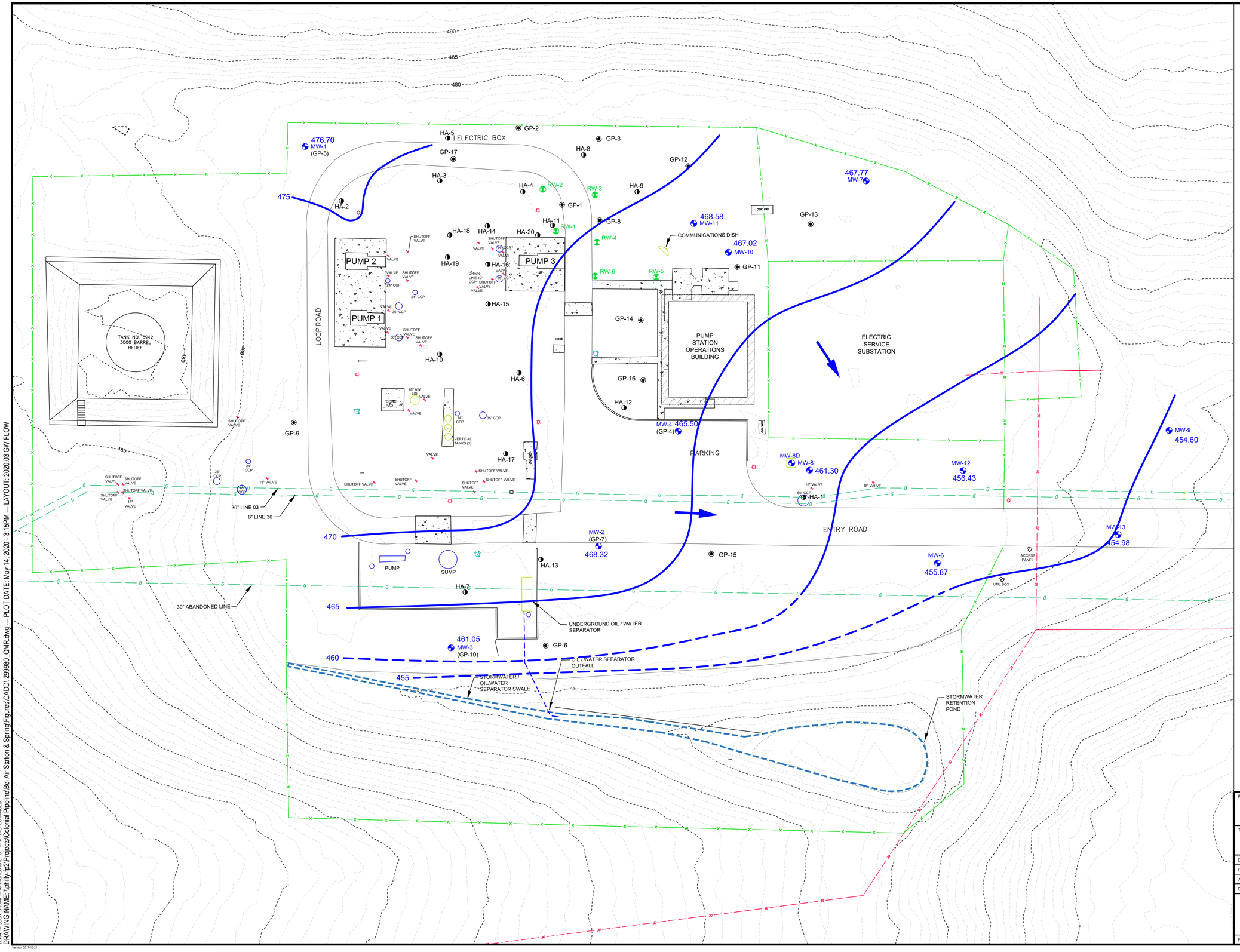
Version: 2017-10-21



LEGEND

GP-8	GEOPROBE BORING
MW-5	MONITORING WELL
RW-2	RECOVERY WELL
HA-9	HAND AUGER BORING
	LIGHT POST
	HYDRANT
	FENCE
	OVERHEAD ELECTRIC LINE
	UNDERGROUND GAS LINE
	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
	INFERRED GROUNDWATER FLOW DIRECTION

GROUNDWATER ELEVATION SHOWN IN FEET ABOVE MEAN SEA LEVEL (FT AMSL)

NOTES:

1. LOCATION OF STORMWATER SWALE AND STORMWATER RETENTION POND ARE APPROXIMATE.
2. VALVE AND SHUTOFF VALVE LOCATIONS ARE SURVEYED GENERAL POINTS OF REFERENCE FOR PUMP STATION CONTROL POINTS AND PROCESS CONTROL FEATURES.

0 20 40
SCALE IN FEET

PROJECT:
COLONIAL PIPELINE COMPANY
BEL AIR PUMP STATION
FALLSTON, HARFORD COUNTY, MARYLAND

TITLE:
GROUNDWATER POTENTIOMETRIC MAP
MARCH 2020

DRAWN BY:	D. KUDLA	PROJ. NO.:	299980.0000.0000
CHECKED BY:	D. KUDLA		FIGURE 6
APPROVED BY:	D. CARLSON		
DATE:	MAY 2020		

TRC
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Phone: 215.563.2122

FILE NO.: 299980_QMR.dwg

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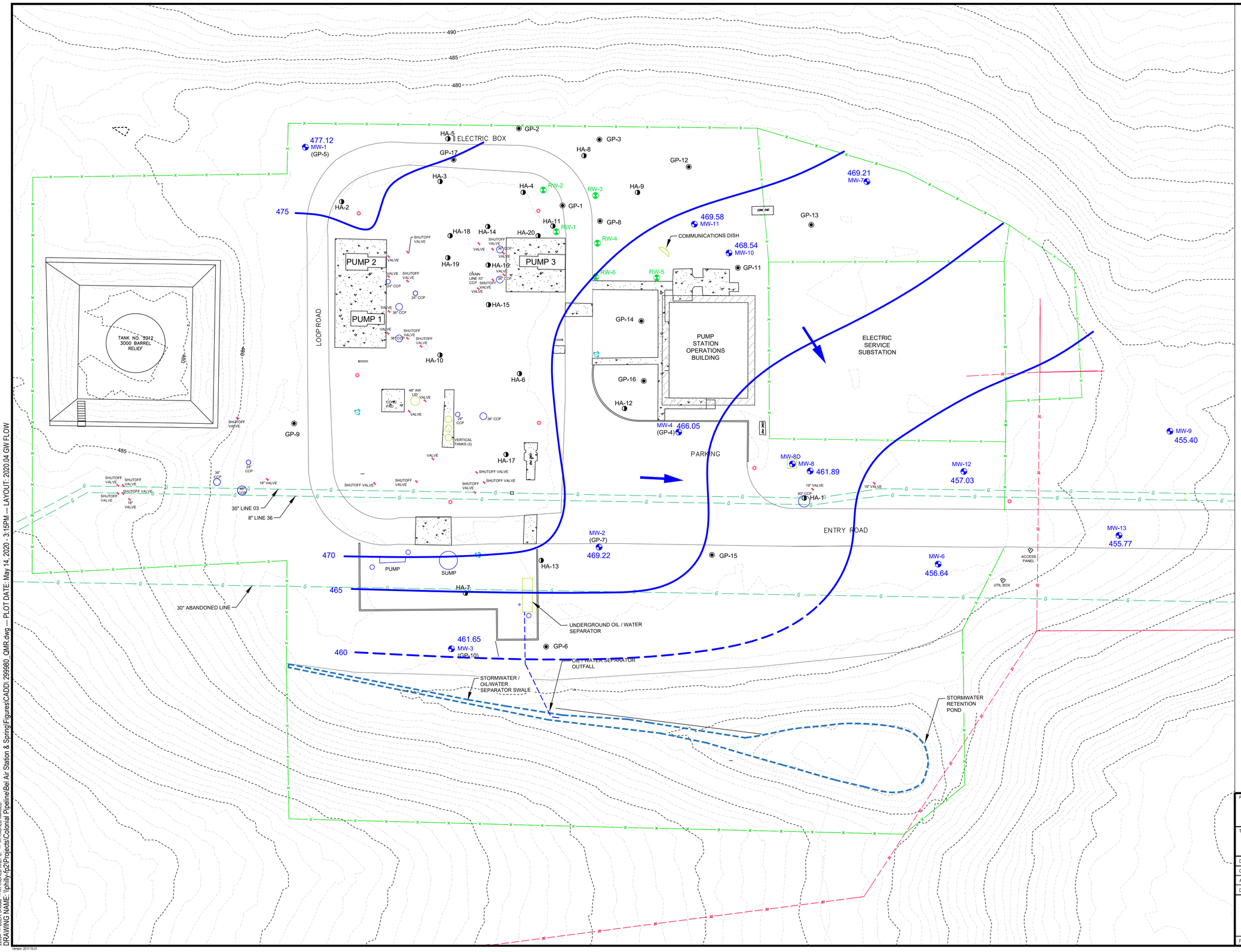
DRAWING NAME: \\philly-fp2\Projects\Colonial Pipeline\Bel Air Station & Spring\Figures\CADD\ 299980_QMR.dwg -- PLOT DATE: May 14, 2020 - 3:15PM -- LAYOUT: 2020.03 GW FLOW
Version: 2017-10-21



LEGEND

GP-8	GEOPROBE BORING
MW-5	MONITORING WELL
RW-2	RECOVERY WELL
HA-9	HAND AUGER BORING
	LIGHT POST
	HYDRANT
	FENCE
	OVERHEAD ELECTRIC LINE
	UNDERGROUND GAS LINE
	GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
	INFERRED GROUNDWATER FLOW DIRECTION

GROUNDWATER ELEVATION SHOWN IN FEET ABOVE MEAN SEA LEVEL (FT AMSL)

NOTES:

1. LOCATION OF STORMWATER SWALE AND STORMWATER RETENTION POND ARE APPROXIMATE.
2. VALVE AND SHUTOFF VALVE LOCATIONS ARE SURVEYED GENERAL POINTS OF REFERENCE FOR PUMP STATION CONTROL POINTS AND PROCESS CONTROL FEATURES.

N

0 20 40
SCALE IN FEET

PROJECT:
COLONIAL PIPELINE COMPANY
BEL AIR PUMP STATION
FALLSTON, HARFORD COUNTY, MARYLAND

TITLE:
GROUNDWATER POTENTIOMETRIC MAP
APRIL 2020

DRAWN BY:	D. KUDLA	PROJ. NO.:	299980.0000.0000
CHECKED BY:	D. KUDLA		**FIGURE 7**
APPROVED BY:	D. CARLSON		
DATE:	MAY 2020		

TRC
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Suite 1380
Philadelphia, PA 19103
Phone: 215.563.2122

FILE NO.: 299980_QMR.dwg

Version: 2017-10-21

2X2A -- USER: DKudla -- ATTACHED XREF'S: -- ATTACHED IMAGES:
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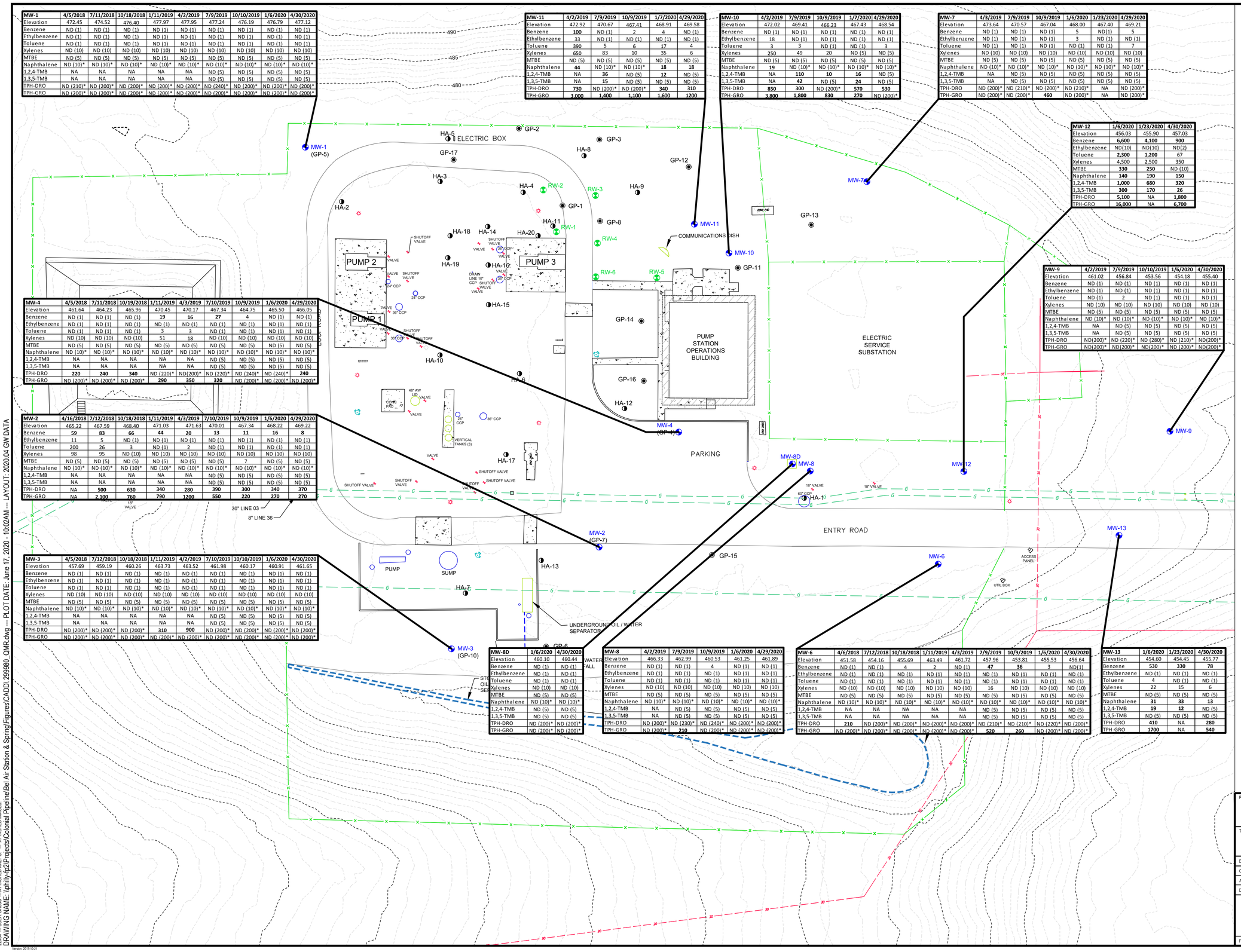

MW-1	4/5/2018	7/11/2018	10/18/2018	1/11/2019	4/2/2019	7/9/2019	10/10/2019	1/6/2020	4/30/2020
Elevation	472.45	474.52	476.40	477.97	477.95	477.24	476.19	476.79	477.12
Benzene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Xylenes	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
MTBE	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Naphthalene	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*
1,2,4-TMB	NA	NA	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)
1,3,5-TMB	NA	NA	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)
TPH-DRO	ND (210)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (240)*	ND (200)*	ND (200)*	ND (200)*
TPH-GRO	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*

MW-11	4/2/2019	7/9/2019	10/9/2019	1/7/2020	4/29/2020
Elevation	472.92	470.67	467.41	468.91	469.58
Benzene	**100**	ND (1)	2	4	ND (1)
Ethylbenzene	33	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	390	5	6	17	4
Xylenes	650	83	10	35	6
MTBE	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Naphthalene	**44**	ND (10)*	ND (10)*	**18**	**18**
1,2,4-TMB	NA	**36**	ND (5)	**12**	ND (5)
1,3,5-TMB	NA	**15**	ND (5)	ND (5)	ND (5)
TPH-DRO	**730**	ND (200)*	ND (200)*	**340**	**310**
TPH-GRO	**3,000**	**1,400**	**1,100**	**1,600**	**1200**

MW-10	4/2/2019	7/9/2019	10/9/2019	1/7/2020	4/29/2020
Elevation	472.02	469.41	466.23	467.43	468.54
Benzene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	18	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	3	3	ND (1)	ND (1)	3
Xylenes	250	49	20	ND (5)	ND (5)
MTBE	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Naphthalene	**19**	ND (10)*	ND (10)*	ND (10)*	ND (10)*
1,2,4-TMB	NA	**110**	**10**	**16**	ND (5)
1,3,5-TMB	NA	**42**	ND (5)	**24**	ND (5)
TPH-DRO	**850**	**300**	ND (200)*	**570**	**530**
TPH-GRO	**3,800**	**1,800**	**830**	**270**	ND (200)*

MW-7	4/3/2019	7/9/2019	10/9/2019	1/6/2020	1/23/2020	4/29/2020
Elevation	473.64	470.57	467.04	468.00	467.40	469.21
Benzene	ND (1)	ND (1)	ND (1)	5	ND(1)	5
Ethylbenzene	ND (1)	ND (1)	ND (1)	3	ND (1)	ND (1)
Toluene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	7
Xylenes	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
MTBE	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Naphthalene	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*
1,2,4-TMB	NA	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
1,3,5-TMB	NA	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
TPH-DRO	ND (200)*	ND (210)*	ND (200)*	ND (210)*	NA	ND (200)*
TPH-GRO	ND (200)*	ND (200)*	**460**	ND (200)*	NA	ND (200)*

MW-12	1/6/2020	1/23/2020	4/30/2020
Elevation	456.03	455.90	457.03
Benzene	**6,600**	**4,100**	**900**
Ethylbenzene	ND(10)	ND(10)	ND(2)
Toluene	**2,300**	**1,200**	67
Xylenes	4,500	2,500	350
MTBE	**330**	**250**	ND (10)
Naphthalene	**140**	**190**	**150**
1,2,4-TMB	**1,000**	**680**	**320**
1,3,5-TMB	**300**	**170**	**26**
TPH-DRO	**5,100**	NA	**1,800**
TPH-GRO	**16,000**	NA	**6,700**

MW-9	4/2/2019	7/9/2019	10/10/2019	1/6/2020	4/30/2020
Elevation	461.02	456.84	453.56	454.18	455.40
Benzene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	ND (1)	2	ND (1)	ND (1)	ND (1)
Xylenes	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
MTBE	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Naphthalene	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*
1,2,4-TMB	NA	ND (5)	ND (5)	ND (5)	ND (5)
1,3,5-TMB	NA	ND (5)	ND (5)	ND (5)	ND (5)
TPH-DRO	ND(200)*	ND (220)*	ND (280)*	ND (210)*	ND(200)*
TPH-GRO	ND(200)*	ND(200)*	ND(200)*	ND (200)*	ND(200)*

MW-4	4/5/2018	7/11/2018	10/19/2018	1/11/2019	4/3/2019	7/10/2019	10/9/2019	1/6/2020	4/29/2020
Elevation	461.64	464.23	465.96	470.45	470.17	467.34	464.75	465.50	466.05
Benzene	ND (1)	ND (1)	ND (1)	**19**	**16**	**27**	4	ND (1)	ND (1)
Ethylbenzene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	ND (1)	ND (1)	ND (1)	3	3	ND (1)	ND (1)	ND (1)	ND (1)
Xylenes	ND (10)	ND (10)	ND (10)	51	18	ND (10)	ND (10)	ND (10)	ND (10)
MTBE	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Naphthalene	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*
1,2,4-TMB	NA	NA	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)
1,3,5-TMB	NA	NA	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)
TPH-DRO	**220**	**240**	**340**	ND (220)*	ND(200)*	ND (220)*	ND (240)*	ND (240)*	**240**
TPH-GRO	ND (200)*	ND (200)*	ND (200)*	**290**	**350**	**320**	ND (200)*	ND (200)*	ND (200)*

MW-2	4/16/2018	7/12/2018	10/18/2018	1/11/2019	4/3/2019	7/10/2019	10/9/2019	1/6/2020	4/29/2020
Elevation	465.22	467.59	468.40	471.03	471.63	470.01	467.34	468.22	469.22
Benzene	**59**	**83**	**66**	**44**	**20**	**13**	**11**	**16**	**8**
Ethylbenzene	11	5	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	200	26	3	ND (1)	2	ND (1)	ND (1)	ND (1)	ND (1)
Xylenes	98	95	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
MTBE	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	7	ND (5)	ND (5)
Naphthalene	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*
1,2,4-TMB	NA	NA	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)
1,3,5-TMB	NA	NA	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)
TPH-DRO	NA	**500**	**630**	**340**	**280**	**390**	**300**	**340**	**370**
TPH-GRO	NA	**2,100**	**760**	**790**	**1200**	**550**	**220**	**270**	**270**

MW-3	4/5/2018	7/12/2018	10/18/2018	1/11/2019	4/2/2019	7/10/2019	10/10/2019	1/6/2020	4/30/2020
Elevation	457.69	459.19	460.26	463.73	463.52	461.98	460.17	460.91	461.65
Benzene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Ethylbenzene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Xylenes	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
MTBE	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Naphthalene	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*
1,2,4-TMB	NA	NA	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)
1,3,5-TMB	NA	NA	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)
TPH-DRO	ND (200)*	ND (200)*	ND (200)*	**310**	**900**	ND (200)*	ND (200)*	ND (200)*	ND (200)*
TPH-GRO	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*

MW-8D	1/6/2020	4/30/2020
Elevation	460.10	460.44
Benzene	ND (1)	ND (1)
Ethylbenzene	ND (1)	ND (1)
Toluene	ND (1)	ND (1)
Xylenes	ND (10)	ND (10)
MTBE	ND (5)	ND (5)
Naphthalene	ND (10)*	ND (10)*
1,2,4-TMB	ND (5)	ND (5)
1,3,5-TMB	ND (5)	ND (5)
TPH-DRO	ND (200)*	ND (200)*
TPH-GRO	ND (200)*	ND (200)*

MW-8	4/2/2019	7/9/2019	10/9/2019	1/6/2020	4/29/2020
Elevation	466.33	462.99	460.53	461.25	461.89
Benzene	ND (1)	ND (1)	4	ND (1)	ND (1)
Ethylbenzene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Xylenes	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
MTBE	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Naphthalene	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*
1,2,4-TMB	NA	ND (5)	ND (5)	ND (5)	ND (5)
1,3,5-TMB	NA	ND (5)	ND (5)	ND (5)	ND (5)
TPH-DRO	ND (200)*	ND (230)*	ND (240)*	ND (200)*	ND (200)*
TPH-GRO	ND (200)*	**210**	ND (200)*	ND (200)*	ND (200)*

MW-6	4/6/2018	7/12/2018	10/18/2018	1/11/2019	4/3/2019	7/9/2019	10/9/2019	1/6/2020	4/30/2020
Elevation	451.58	454.16	455.69	463.49	461.72	457.96	453.81	455.53	456.64
Benzene	ND (1)	ND (1)	4	2	ND (1)	**47**	**36**	3	ND(1)
Ethylbenzene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Toluene	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
Xylenes	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	16	ND (10)	ND (10)	ND (10)
MTBE	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
Naphthalene	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*	ND (10)*
1,2,4-TMB	NA	NA	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)
1,3,5-TMB	NA	NA	NA	NA	NA	ND (5)	ND (5)	ND (5)	ND (5)
TPH-DRO	**210**	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (210)*	ND (210)*	ND (220)*	ND (200)*
TPH-GRO	ND (200)*	ND (200)*	ND (200)*	ND (200)*	ND (200)*	**520**	**260**	ND (200)*	ND (200)*

MW-13	1/6/2020	1/23/2020	4/30/2020
Elevation	454.60	454.45	455.77
Benzene	**530**	**330**	**78**
Ethylbenzene	ND (1)	ND (1)	ND (1)
Toluene	4	ND (1)	ND (1)
Xylenes	22	15	6
MTBE	ND (5)	ND (5)	ND (5)
Naphthalene	**31**	**33**	**13**
1,2,4-TMB	**19**	**12**	ND (5)
1,3,5-TMB	ND (5)	ND (5)	ND (5)
TPH-DRO	**410**	NA	**280**
TPH-GRO	**1700**	NA	**540**

LEGEND

- GP-8 — GEOPROBE BORING
- MW-5 — MONITORING WELL
- RW-2 — RECOVERY WELL
- HA-9 — HAND AUGER BORING
- LIGHT POST
- HYDRANT
- FENCE
- OVERHEAD ELECTRIC LINE
- UNDERGROUND GAS LINE

GROUNDWATER ELEVATION SHOWN IN FEET ABOVE MEAN SEA LEVEL (FT AMSL)

NOTES:

1. LOCATION OF STORMWATER SWALE AND STORMWATER RETENTION POND ARE APPROXIMATE
2. VALVE AND SHUTOFF VALVE LOCATIONS ARE SURVEYED GENERAL POINTS OF REFERENCE FOR PUMP STATION CONTROL POINTS AND PROCESS CONTROL FEATURES
3. BOLD RESULT INDICATES CONCENTRATIONS ABOVE MDE GROUNDWATER QUALITY STANDARDS (GWQS)
4. LLQ - LOWEST LEVEL OF QUANTITATION
6. LLQ REPORTED IN PARENTHESES
7. * - LLQ ABOVE APPLICABLE CRITERION
8. ND - NOT DETECTED ABOVE LLQ

Parameter (µg/L)	MD GWQS
Benzene	5
Ethylbenzene	700
Toluene	1,000
Xylenes (total)	10,000
Methyl Tert Butyl Ether (MTBE)	20
Naphthalene	0.65
1,2,4-Trimethylbenzene (1,2,4-TMB)	5.6
1,3,5-Trimethylbenzene (1,3,5-TMB)	6
Diesel Range Organics (DRO)	47
Gasoline Range Organics (GRO)	47

N

0 20 40
SCALE IN FEET

PROJECT:
COLONIAL PIPELINE COMPANY
BEL AIR PUMP STATION
FALLSTON, HARFORD COUNTY, MARYLAND

TITLE:
GROUNDWATER ANALYTICAL MAP
APRIL 2020

DRAWN BY:	D. KUDLA	PROJ. NO.:	299980.0000.0000
CHECKED BY:	D. KUDLA		
APPROVED BY:	D. CARLSON		**FIGURE 8**
DATE:	MAY 2020		

TRC
1801 Market Street
Suite 1380
Philadelphia, PA 19103
Phone: 215.563.2122

FILE NO.: 299980_QMR.dwg

26X4 -- USER: DKudla -- ATTACHED XREF'S: -- ATTACHED IMAGES:
DRAWING NAME: \\phlly-fs2\Projects\Colonial Pipeline\Bel Air Station & Spring\Figures\CADD\ 299980_QMR.dwg -- PLOT DATE: June 17, 2020 - 10:02AM -- LAYOUT: 2020.04 GW DATA
Version: 2017-10-21

TABLES

Table 1 Monitoring Well Groundwater Elevations (January 2019 – April 2020)
Table 2 Groundwater Analytical Data Summary of Compounds of Concern – Monitoring Wells (April 2018 to April 2020)
Table 3 Groundwater Analytical Data Summary – Commercial and Residential Wells (April 2020)

TABLE 1

Monitoring Well Groundwater Elevations

April 2019 - April 2020

Colonial Pipeline Company - Bel Air Pump Station

Gauging Date	TOC Elevation	Depth to Water	Depth to Product	GW Elevation
MW-1				
4/2/2019	480.73	2.78	--	477.95
5/2/2019	480.73	2.85	--	477.88
6/3/2019	480.73	3.12	--	477.61
7/9/2019	480.73	3.49	--	477.24
8/26/2019	480.73	3.95	--	476.78
9/12/2019	480.73	4.08	--	476.65
10/9/2019	480.73	4.54	--	476.19
11/11/2019	480.73	4.15	--	476.58
12/12/2019	480.73	4.17	--	476.56
1/6/2020	480.73	3.94	--	476.79
2/6/2020	480.73	3.95	--	476.78
3/5/2020	480.73	4.03	--	476.70
4/29/2020	480.73	3.61	--	477.12
MW-2				
4/2/2019	478.20	6.57	--	471.63
5/2/2019	478.20	6.91	--	471.29
6/3/2019	478.20	7.25	--	470.95
7/9/2019	478.20	8.19	--	470.01
8/26/2019	478.20	9.41	--	468.79
9/12/2019	478.20	9.93	--	468.27
10/9/2019	478.20	10.86	--	467.34
11/11/2019	478.20	10.35	--	467.85
12/12/2019	478.20	11.91	--	466.29
1/6/2020	478.20	9.98	--	468.22
2/6/2020	478.20	9.66	--	468.54
3/5/2020	478.20	9.88	--	468.32
4/29/2020	478.20	8.98	--	469.22
MW-3				
4/2/2019	476.86	13.34	--	463.52
5/2/2019	476.86	13.63	--	463.23
6/3/2019	476.86	14.01	--	462.85
7/9/2019	476.86	14.88	--	461.98
8/26/2019	476.86	15.81	--	461.05
9/12/2019	476.86	16.19	--	460.67
10/9/2019	476.86	16.69	--	460.17
11/11/2019	476.86	16.38	--	460.48
12/12/2019	476.86	16.40	--	460.46
1/6/2020	476.86	15.95	--	460.91
2/6/2020	476.86	15.81	--	461.05
3/5/2020	476.86	15.81	--	461.05
4/29/2020	476.86	15.21	--	461.65
MW-4				
4/2/2019	477.15	6.98	--	470.17
5/2/2019	477.15	7.73	--	469.42
6/3/2019	477.15	8.51	--	468.64
7/9/2019	477.15	9.81	--	467.34
8/26/2019	477.15	11.11	--	466.04
9/12/2019	477.15	11.67	--	465.48
10/9/2019	477.15	12.40	--	464.75
11/11/2019	477.15	11.95	--	465.20
12/12/2019	477.15	12.45	--	464.70
1/6/2020	477.15	11.65	--	465.50
2/6/2020	477.15	11.68	--	465.47
3/5/2020	477.15	11.65	--	465.50
4/29/2020	477.15	11.10	--	466.05
MW-5				
4/2/2019	477.44	5.35	--	472.09
5/2/2019	477.44	--	--	--
6/3/2019	477.44	--	--	--
7/9/2019	477.44	--	--	--
8/26/2019	477.44	--	--	--
9/12/2019	477.44	--	--	--
10/9/2019	477.44	--	--	--
11/11/2019	477.44	--	--	--
12/12/2019	477.44	--	--	--
1/6/2020	477.44	--	--	--
2/6/2020	477.44	--	--	--
3/5/2020	477.44	--	--	--
4/29/2020	477.44	--	--	--

Gauging Date	TOC Elevation	Depth to Water	Depth to Product	GW Elevation
MW-6				
4/2/2019	480.62	18.9	--	461.72
5/2/2019	480.62	20.25	--	460.37
6/3/2019	480.62	21.50	--	459.12
7/9/2019	480.62	22.66	--	457.96
8/26/2019	480.62	24.13	--	456.49
9/12/2019	480.62	25.00	--	455.62
10/9/2019	480.62	26.81	--	453.81
11/11/2019	480.62	25.44	--	455.18
12/12/2019	480.62	26.01	--	454.61
1/6/2020	480.62	25.09	--	455.53
2/6/2020	480.62	24.81	--	455.81
3/5/2020	480.62	24.75	--	455.87
4/29/2020	480.62	23.98	--	456.64
MW-7				
4/2/2019	480.52	6.88	--	473.64
5/2/2019	480.52	7.83	--	472.69
6/3/2019	480.52	8.81	--	471.71
7/9/2019	480.52	9.95	--	470.57
8/26/2019	480.52	11.83	--	468.69
9/12/2019	480.52	12.76	--	467.76
10/9/2019	480.52	13.48	--	467.04
11/11/2019	480.52	12.07	--	468.45
12/12/2019	480.52	13.36	--	467.16
1/6/2020	480.52	12.52	--	468.00
2/6/2020	480.52	12.80	--	467.72
3/5/2020	480.52	12.75	--	467.77
4/29/2020	480.52	11.31	--	469.21
MW-8				
4/2/2019	477.27	10.94	--	466.33
5/2/2019	477.27	12.20	--	465.07
6/3/2019	477.27	13.05	--	464.22
7/9/2019	477.27	14.28	--	462.99
8/26/2019	477.27	15.47	--	461.80
9/12/2019	477.27	16.02	--	461.25
10/9/2019	477.27	16.74	--	460.53
11/11/2019	477.27	16.27	--	461.00
12/12/2019	477.27	16.86	--	460.41
1/6/2020	477.27	16.02	--	461.25
2/6/2020	477.27	15.93	--	461.34
3/5/2020	477.27	15.97	--	461.30
4/29/2020	477.27	15.38	--	461.89
MW-8D				
4/2/2019	--	--	--	--
5/2/2019	--	--	--	--
6/3/2019	--	--	--	--
7/9/2019	--	--	--	--
8/26/2019	--	--	--	--
9/12/2019	--	--	--	--
10/9/2019	--	--	--	--
11/11/2019	479.84	21.75	--	458.09
12/12/2019	479.84	21.14	--	458.70
1/6/2020	479.84	19.74	--	460.10
2/6/2020	479.84	20.25	--	459.59
3/5/2020	479.84	20.20	--	459.64
4/29/2020	479.84	19.40	--	460.44
MW-9				
4/2/2019	475.43	14.41	--	461.02
5/2/2019	475.43	15.95	--	459.48
6/3/2019	475.43	17.06	--	458.37
7/9/2019	475.43	18.59	--	456.84
8/26/2019	475.43	20.05	--	455.38
9/12/2019	475.43	21.03	--	454.40
10/9/2019	475.43	21.87	--	453.56
11/11/2019	475.43	21.51	--	453.92
12/12/2019	475.43	21.95	--	453.48
1/6/2020	475.43	21.25	--	454.18
2/6/2020	475.43	20.93	--	454.50
3/5/2020	475.43	20.83	--	454.60
4/29/2020	475.43	20.03	--	455.40

Gauging Date	TOC Elevation	Depth to Water	Depth to Product	GW Elevation
MW-10				
4/2/2019	476.84	4.82	--	472.02
5/2/2019	476.84	5.65	--	471.19
6/3/2019	476.84	6.35	--	470.49
7/9/2019	476.84	7.43	--	469.41
8/26/2019	476.84	8.75	--	468.09
9/12/2019	476.84	9.56	--	467.28
10/9/2019	476.84	10.61	--	466.23
11/11/2019	476.84	10.85	--	465.99
12/12/2019	476.84	10.39	--	466.45
1/6/2020	476.84	9.41	--	467.43
2/6/2020	476.84	8.21	--	468.63
3/5/2020	476.84	9.82	--	467.02
4/29/2020	476.84	8.30	--	468.54
MW-11				
4/2/2019	476.90	3.92	--	472.98
5/2/2019	476.90	5.68	--	471.22
6/3/2019	476.90	6.30	--	470.60
7/9/2019	476.90	6.23	--	470.67
8/26/2019	476.90	7.51	--	469.39
9/12/2019	476.90	8.35	--	468.55
10/9/2019	476.90	9.49	--	467.41
11/11/2019	476.90	8.73	--	468.17
12/12/2019	476.90	9.05	--	467.85
1/6/2020	476.90	7.99	--	468.91
2/6/2020	476.90	9.62	--	467.28
3/5/2020	476.90	8.32	--	468.58
4/29/2020	476.90	7.32	--	469.58
MW-12				
4/2/2019	--	--	--	--
5/2/2019	--	--	--	--
6/3/2019	--	--	--	--
7/9/2019	--	--	--	--
8/26/2019	--	--	--	--
9/12/2019	--	--	--	--
10/9/2019	--	--	--	--
11/11/2019	--	--	--	--
12/12/2019	--	--	--	--
1/6/2020	480.38	24.35	--	456.03
2/6/2020	480.38	24.07	--	456.31
3/5/2020	480.38	23.95	--	456.43
4/29/2020	480.38	23.35	--	457.03
MW-13				
4/2/2019	--	--	--	--
5/2/2019	--	--	--	--
6/3/2019	--	--	--	--
7/9/2019	--	--	--	--
8/26/2019	--	--	--	--
9/12/2019	--	--	--	--
10/9/2019	--	--	--	--
11/11/2019	--	--	--	--
12/12/2019	--	--	--	--
1/6/2020	473.19	18.59	--	454.60
2/6/2020	473.19	18.30	--	454.89
3/5/2020	473.19	18.21	--	454.98
4/29/2020	473.19	17.42	--	455.77

TOC - Top of Casing
Elevations in feet above mean sea level (amsl)
Depth to water and depth to product in feet below TOC
Groundwater elevation in feet amsl.
NM - Not measured.
"--" - Not Applicable.

TABLE 2
Groundwater Analytical Data Summary for Compounds of Concern - Monitoring Wells
April 2018 - April 2020
Colonial Pipeline Company - Bel Air Pump Station

Parameter	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2,4-TMB	1,3,5-TMB	TPH-DRO	TPH-GRO
MDE GWQS	**5**	**1000**	**700**	**10000**	**20**	**0.65**	**5.6**	**6**	**47**	**47**
MW-1										
4/5/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (210)*	ND (200)*
7/11/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
10/18/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
1/11/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
4/2/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
7/9/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (240)*	ND (200)*
10/10/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
1/6/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
4/30/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
MW-2										
4/16/2018	**59**	200	11	98	ND (5)	ND (10)*	--	--	--	--
7/12/2018	**83**	26	5	95	ND (5)	ND (10)*	--	--	**500**	**2,100**
10/18/2018	**66**	3	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	**630**	**760**
1/11/2019	**44**	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	**340**	**790**
4/3/2019	**20**	2	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	**280**	**1,200**
7/10/2019	**13**	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	**390**	**550**
10/9/2019	**11**	ND (1)	ND (1)	ND (10)	7	ND (10)*	ND (5)	ND (5)	**300**	**220**
1/6/2020	**16**	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	**340**	**270**
4/29/2020	**8**	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	**370**	**270**
MW-3										
4/5/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
7/12/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
10/18/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
1/11/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	**310**	ND (200)*
4/2/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	**900**	ND (200)*
7/10/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
10/10/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
1/6/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
4/30/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
MW-4										
4/5/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	**220**	ND (200)*
7/11/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	**240**	ND (200)*
10/19/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	**340**	ND (200)*
1/11/2019	**19**	ND (1)	3	51	ND (5)	ND (10)*	--	--	ND (220)*	**290**
4/3/2019	**16**	ND (1)	3	18	ND (5)	ND (10)*	--	--	ND (200)*	**350**
7/10/2019	**27**	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (220)*	**320**
10/9/2019	4	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (240)*	ND (200)*
1/6/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (240)*	ND (200)*
4/29/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	**240**	ND (200)*
MW-5/RW-5										
4/6/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
7/11/2018	**880**	**2,300**	33	720	ND (25)*	ND (50)*	--	--	**760**	**12,000**
10/19/2018	**11,000**	**18,000**	**920**	5,200	ND (200)*	ND (400)*	--	--	**8,200**	**34,000**
1/11/2019	**9,900**	**12,000**	**780**	4,400	**580**	**210**	--	--	**10,000**	**14,000**
4/2/2019	**13,000**	**19,000**	**1,000**	6,200	ND (1000)*	ND (200)*	--	--	**9,900**	**100,000**
MW-6										
4/6/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	**210**	ND (200)*
7/12/2018	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
10/18/2018	4	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
1/11/2019	2	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
4/3/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
7/9/2019	**47**	ND (1)	ND (1)	16	ND (5)	ND (10)*	ND (5)	ND (5)	ND (210)*	**520**
10/9/2019	**36**	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (210)*	**260**
1/6/2020	3	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (220)*	ND(200)*
4/30/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
MW-7										
4/3/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
7/9/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (210)*	ND (200)*
10/9/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	**460**
1/6/2020	5	3	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND(210)*	ND(200)*
1/23/2020	ND(1)	ND (1)	ND(1)	ND(10)	ND(5)	ND(10)*	ND(5)	ND(5)	NA	NA
4/29/2020	5	7	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND(200)*	ND(200)*

TABLE 2
Groundwater Analytical Data Summary for Compounds of Concern - Monitoring Wells
April 2018 - April 2020
Colonial Pipeline Company - Bel Air Pump Station

Parameter	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene	1,2,4-TMB	1,3,5-TMB	TPH-DRO	TPH-GRO
MDE GWQS	**5**	**1000**	**700**	**10000**	**20**	**0.65**	**5.6**	**6**	**47**	**47**
MW-8										
4/2/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
7/9/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (230)*	**210**
10/9/2019	4	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (240)*	ND (200)*
1/6/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
4/29/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
MW-8D										
1/6/2020	ND(1)	ND (1)	ND (1)	ND (10)	ND(5)	ND(10)*	ND(5)	ND (5)	ND(200)*	ND(200)*
4/29/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND(200)*	ND(200)*
MW-9										
4/2/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	--	--	ND (200)*	ND (200)*
7/9/2019	ND (1)	2	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (220)*	ND (200)*
10/10/2019	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (280)*	ND (200)*
1/6/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (210)*	ND (200)*
4/29/2020	ND (1)	ND (1)	ND (1)	ND (10)	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	ND (200)*
MW-10										
4/2/2019	ND (1)	3	18	250	ND (5)	**19**	--	--	**850**	**3,800**
7/9/2019	ND (1)	3	ND (1)	49	ND (5)	ND (10)*	**110**	**42**	**300**	**1,800**
10/9/2019	ND (1)	ND (1)	ND (1)	20	ND (5)	ND (10)*	**10**	ND (5)	ND (200)*	**830**
1/7/2020	ND (1)	ND (1)	ND (1)	ND (5)	ND (5)	ND (10)*	**16**	**24**	**570**	**270**
4/29/2020	ND (1)	3	ND (1)	ND (5)	ND (5)	ND (10)*	ND (5)	ND (5)	**530**	ND (200)*
MW-11										
4/2/2019	**100**	390	33	650	ND (5)	**44**	--	--	**730**	**3,000**
7/9/2019	ND (1)	5	ND (1)	83	ND (5)	ND (10)*	**36**	**15**	ND (200)*	**1,400**
10/9/2019	2	6	ND (1)	10	ND (5)	ND (10)*	ND (5)	ND (5)	ND (200)*	**1,100**
1/7/2020	4	17	ND (1)	35	ND (5)	**18**	**12**	ND (5)	**340**	**1,600**
4/29/2020	ND (1)	4	ND (1)	6	ND (5)	**18**	ND (5)	ND (5)	**310**	**1,200**
MW-12										
1/6/2020	**6,600**	**2,300**	ND(10)	4,500	**330**	**140**	**1,000**	**300**	**5,100**	**16,000**
1/23/2020	**4,100**	**1,200**	ND(10)	2,500	**250**	**190**	**680**	**170**	NA	NA
4/30/2020	**900**	67	ND(2)	350	ND (10)	**150**	**320**	**26**	**1,800**	**6,700**
MW-13										
1/6/2020	**530**	4	ND(1)	22	ND(5)	**31**	**19**	ND(5)	**410**	**1700**
1/23/2020	**330**	ND(1)	ND(1)	15	ND(5)	**33**	**12**	ND(5)	NA	NA
4/30/2020	**78**	ND (1)	ND (1)	6	ND(5)	**13**	ND(5)	ND(5)	**280**	**540**

Values are reported in micrograms per liter (µg/L)
GWQS = MDE Groundwater Quality Standard for Type I Aquifers
Bold indicates concentrations above the MDE GWQS
LLQ = Lowest Level of Quantitation
LLQ reported in parenthesis
* = LLQ above applicable criterion.
ND = Not Detected above LLQ

-- = Not Analyzed
MTBE = Methyl Tert Butyl Ether
TMB = Trimethylbenzene
TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
NOTE: MW-

TABLE 3
Groundwater Analytical Data Summary - Commericial and Residential Wells
April 2020
Colonial Pipeline Company - Bel Air Pump Station

		Sample No.:	Parris-01			Parris-02			D. Kaminkow-01			FB-01			FB-02		
		Date Sampled:	4/30/2020			4/30/2020			4/30/2020			4/30/2020			4/30/2020		
		Lab Sample ID:	20043004-01			20043004-03			20043004-04			20043004-02			20043004-05		
		Lab:	Caliber			Caliber			Caliber			Caliber			Caliber		
Parameter (µg/L)	***CAS No.***	***GWQS***	***Results***	***Q***	***LLQ***	***Results***	***Q***	***LLQ***	***Results***	***Q***	***LLQ***	***Results***	***Q***	***LLQ***	***Results***	***Q***	***LLQ***
Benzene	*71-43-2*	*5*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Bromobenzene	*108-86-1*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Bromochloromethane	*74-97-5*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Bromodichloromethane	*75-27-4*	*80*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Bromoform	*75-25-2*	*80*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Bromomethane	*74-83-9*	*0.85*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
n-Butylbenzene	*104-51-8*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
sec-Butylbenzene	*135-98-8*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
tert-Butylbenzene	*98-06-6*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Carbon Tetrachloride	*56-23-5*	*5*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chlorobenzene	*108-90-7*	*100*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chloroethane	*75-00-3*	*3.6*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chloroform	*67-66-3*	*80*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chloromethane	*74-87-3*	*19*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
2-Chlorotoluene	*95-49-8*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
4-Chlorotoluene	*106-43-4*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Dibromochloromethane	*124-48-1*	*80*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dibromo-3-chloropropane (DBCP)	*96-12-8*	*0.2*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dibromoethane (EDP)	*106-93-4*	*0.05*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Dibromomethane	*74-95-3*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichlorobenzene	*95-50-1*	*600*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,3-Dichlorobenzene	*541-73-1*	*1.8*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1.4-Dichlorobenzene	*106-46-7*	*75*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1-Dichloroethane	*75-34-3*	*90*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichloroethane (EDC)	*107-06-2*	*5*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1-Dichloroethene	*75-35-4*	*7*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
cis-1,2-Dichloroethene	*156-59-2*	*70*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,2-Dichloroethene	*156-60-5*	*100*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichloropropane	*78-87-5*	*5*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,3-Dichloropropane	*142-28-9*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
2,2-Dichloropropane	*594-20-7*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1-Dichloropropene	*563-58-6*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
cis-1,3-Dichloropropene	*10061-01-5*	*0.44*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,3-Dichloropropene	*10061-02-6*	*0.44*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Ethylbenzene	*100-41-4*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Isopropylbenzene	*98-82-8*	*66*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
p-Isopropyltoluene	*99-87-6*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Methylene chloride	*75-09-2*	*5*	ND		2.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Methyl t-butyl ether (MTBE)	*1634-04-4*	*20*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Naphthalene	*90-20-3*	*0.65*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
n-Propylbezene	*99-87-6*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Styrene	*100-42-5*	*100*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,1,2-Tetrachloroethane	*79-00-5*	*5*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.053*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Tetrachloroethene	*127-18-4*	*5*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Toluene	*108-88-3*	*1000*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2,3-Trichlorobenzene	*87-61-6*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2,4-Trichlorobenzene	*120-82-1*	*70*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,1-Trichloroethane	*71-55-6*	*200*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,2-Trichloroethane	*79-00-5*	*5*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Trichloroethene	*79-01-6*	*5*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Trichlorofluoromethane	*75-69-4*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2,3-Trichloropropane	*96-18-4*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2,4-Trimethylbenzene	*95-63-6*	*5.6*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,3,5-Trimethylbenzene	*108-67-8*	*6*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Vinyl Chloride	*75-01-4*	*2*	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
m&p-Xylene	*179601-23-*	--	ND		1	ND		1	ND		1	ND		1	ND		1
o-Xylene	*95-47-6*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
tert-Butanol (TBA)	*75-65-0*	--	ND		5	ND		5	ND		5	ND		5	ND		5
Ethyl t-butyl ether (ETBE)	*637-92-3*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Diisopropyl ether (DIPE)	*108-20-3*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
tert-Amyl methyl ether (TAME)	*994-05-8*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
tert-Amyl alcohol (TAA)	*75-85-4*	--	ND		5	ND		5	ND		5	ND		5	ND		5
tert-Amyl ethyl ether (TAEE)	*919-94-8*	--	ND		0.5	ND		0.5	ND		0.5	ND		0.5	ND		0.5

Values are reported in micrograms per liter (µg/L)
GWQS = MD Groundwater Quality Standard (GWQS) for Type I Aquifers
Bold indicates concentrations above the MD GWQS
Values in italics indicate PQL above applicable criterion
Q = Sample Qualifier
LLQ = Lowest Level of Quantitation
ND = Not Detected
* = Resample (Well was resampled due to well maintenance conducted prior to initial sampling event)

APPENDIX A

Maryland Department of Environment Request for Additional Monitoring

Maryland
Department of
the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

May 15, 2018

Mr. Stanley Carpenter
Colonial Pipeline Company
1089 Kings Highway
West Deptford NJ 08086

RE: REQUEST FOR ADDITIONAL MONITORING AND HALF-MILE WELL SURVEY
Case No. 2018-0459-HA
Colonial Pipeline – Bel Air Station
2942 Charles Street, Fallston
Harford County, Maryland

Dear Mr. Carpenter:

The Maryland Department of the Environment's (the Department) Oil Control Program (OCP) recently completed a review of the case file for the above-referenced property, located in a designated high-risk groundwater use area. On March 7, 2018, Colonial Pipeline Company (Colonial) reported that a release of diesel fuel occurred at the site. The release was discovered within the pumping loop observation portals during a scheduled site monitoring visit. An environmental spill response company was hired and the recovery of liquid phase hydrocarbons (LPH) and petroleum impacted soils and water began March 7, 2018. Investigation of the release revealed two corrosion perforations on the 20-inch diameter kick back line, approximately 16 inches from the top line of the pipe. The perforations were repaired and the line was returned to service on March 8th.

On March 12, 2018, an emergency subsurface investigation was initiated to characterize the extent of petroleum impacts at the site. A total of 28 soil borings were advanced (17 hand-augured and 11 direct-push soil borings) in and around the confines of the subsurface structures. Six permanent groundwater monitoring wells were installed around the perimeter of the site. On April 13, 2018, the Department received notification that petroleum-related compounds were detected in the groundwater sample collected from monitoring well MW-2. The analytical results reported a detection of benzene at a concentration of 11 parts per billion (ppb), which exceeds the benzene regulatory standard of 5 ppb. Sampling results from the other five monitoring wells were non-detect for petroleum constituents. A confirmatory sample was collected from MW-2 on April 16, 2018, and the results confirmed the presence of benzene at a concentration of 59 ppb. The on-site drinking water supply well was sampled on March 12, 2018. The supply well analytical results did not detect any petroleum related impacts above laboratory detection limits.

On March 16, 2018, an environmental contractor collected samples from 11 drinking water supply wells located on ten properties immediately adjacent to the Colonial pumping station. Personnel from the OCP and the Harford County Health Department oversaw the collection of these drinking water samples. The analytical results of the samples collected from these drinking water supply wells did not reveal any petroleum related impacts above laboratory detection limits.

The Department understands that the pipeline is protected from corrosion by an outer coating. Time and exposure to fuel can degrade that coating. During the initial emergency response, the main pipelines passing through the Bel Air Pumping Station and the pipes within the kick back line were exposed to recover LPH and petroleum impacted soils. While the pipeline was exposed, the Department understands that compromises were detected in the coating where LPH was recovered. Upon completing the initial recovery efforts, the Department understands that you have begun repairing any coating compromises and inspecting the rest of the buried structures at the site. During this process, additional soils have been excavated and will be sent to a State of Maryland approved soil disposal facility.

Since this property is located in a high-risk groundwater use area served by a drinking water supply well, the Department requires completion of the following:

1) **No later than May 28, 2018**, submit a well survey identifying all drinking water supply wells (i.e. domestic, non-community/community water supply, agricultural) within a half-mile radius of the subject property and plot on a U.S. Geological Survey map or scaled street map.

   a. Annotate on this map the 500-ft., 1,000-ft., and 0.5-mile radii.
   b. Provide a summary table including, at a minimum, property address, property owner name, property owner address, depth of well, casing depth, screen depth, and current status of well usage.
   c. Review well completion reports and evaluate whether on-site conditions could potentially impact any off-site drinking water supply wells in the area.
   d. Submit documentation of which supply wells are historic and have been abandoned.
   e. Submit copies of field notes documenting field reconnaissance performed to verify the presence or absence of wells.
   f. Provide written documentation of your findings and the list of persons contacted.

2) **No later than May 28, 2018,** submit the *Subsurface Investigation Report.* The *Subsurface Investigation Report* should include, at a minimum: a detailed accounting of the release and the steps of the post-release investigation and recovery process; data summary tables (including fuel oxygenates and naphthalene) and scaled site maps showing actual sampling locations (i.e., soil boring/monitoring well locations); any dissolved and liquid phase hydrocarbon thicknesses encountered should also be depicted on maps encountered. Qualitative and/or quantitative discussions should be presented, including recommendations for further actions (additional characterization or remedial options

3) Begin monthly gauging and quarterly (every three months) sampling of the monitoring well network until written approval from the Department is received to suspend or reduce the sampling frequency. Sampling events must be conducted in July, October, January, and April. All samples collected must be analyzed for full-suite volatile organic compounds (VOCs), including fuel oxygenates and naphthalene, using EPA Method 8260 and total petroleum hydrocarbons - diesel and gasoline range organics (TPH-DRO and GRO) using EPA Method 8015.

4) Conduct quarterly sampling of the on-site drinking water supply well. Sampling events must be conducted in July, October, January, and April. All samples collected must be analyzed for full-suite VOCs, including fuel oxygenates and naphthalene, using EPA Method 524.2. If a granular activated carbon (GAC) filtration system is present, samples must be collected pre-, mid-, and post-filtration.

5) Conduct quarterly sampling of the drinking water supply wells of the ten immediately adjacent properties until written approval to reduce or suspend sampling is received from the Department. These properties include: 2929, 2931, 2932, 2933, 2935, 2936, and 3006 Charles Street and 2220, 2226 (2 wells), and 2230

Rutledge Road. Sampling events must be conducted in July, October, January, and April. All samples must be collected as close to the pressure tank as possible. All samples collected must be analyzed for full-suite VOCs, including fuel oxygenates and naphthalene, using EPA Method 524.2. If a GAC filtration system is present, samples must be collected pre-, mid-, and post-filtration. Copies of all sampling results must be provided to the property owner, the Harford County Health Department (Attn. Ms. Lisa Kalama) and the Oil Control Program's case manager.

6) Within 45 days of each sampling event, submit a quarterly report to the Oil Control Program detailing the results of the event.

7) When submitting reports, include data summary tables and scaled site maps showing actual sampling locations (i.e., monitoring well and tank field well locations). In the discussion of supplemental sampling events, include details on sampling procedures and describe analytical results in terms of media sampled. Reports must include groundwater flow maps, dissolved concentration maps, and qualitative and quantitative discussions regarding the sampling results and trends.

When submitting documentation to the Oil Control Program, provide three hard copies and a digital copy on a labeled compact disk (CD). If you have any questions, please contact the case manager, Mrs. Susan Bull, Eastern Region Supervisor, at 410-537-3499 (email: *susan.bull@maryland.gov*), or me at 410-537-3389 (email: *andrew.miller@maryland.gov*).

Sincerely,

Andrew B. Miller, Chief
Remediation and State Lead Division
Oil Control Program

SRB/nln

cc: Mrs. Julie Makert (Harford County Health Dept.)
Mr. David Kaminkow (Owner 2929 Charles Street)
Mr. and Mrs. Joseph Kaminkow (Owners 2931 and 2933 Charles Street)
Mr. and Mrs. Potter (Owners 2932 Charles Street)
Mr. and Mrs. Hurlock (Owners 2935 Charles Street)
Mr. and Mrs. Rasmussen (Owners 2936 Charles Street)
Mr. and Mrs. Reese (Owners 3006 Charles Street)
Mr. Eric Svendsen, Environmental Scientist (TransCanada 2220 Rutledge Road)
Mr. and Mrs. Parris (Owners 2226 Rutledge Road)
Mr. and Mrs. Hornbeck (Owners 2230 Rutledge Road)
Mr. Christopher H. Ralston
Ms. Hilary Miller

APPENDIX B

Monitoring Well Groundwater Elevations Master Table (2018 – 2020)

APPENDIX B

Monitoring Well Groundwater Elevations Master Table

2018 - 2020

Colonial Pipeline Company - Bel Air Pump Station

Gauging Date	TOC Elevation	Depth to Water	Depth to Product	Product Thickness	GW Elevation
MW-1					
4/4/2018	480.73	8.28	--	--	472.45
5/30/2018	480.73	5.79	--	--	474.94
6/28/2018	480.73	5.27	--	--	475.46
7/11/2018	480.73	6.21	--	--	474.52
8/9/2018	480.73	4.54	--	--	476.19
9/4/2018	480.73	4.52	--	--	476.21
10/18/2018	480.73	4.33	--	--	476.40
11/2/2018	480.73	3.83	--	--	476.90
12/6/2018	480.73	3.16	--	--	477.57
1/11/2019	480.73	2.76	--	--	477.97
2/14/2019	480.73	2.61	--	--	478.12
3/13/2019	480.73	2.64	--	--	478.09
4/2/2019	480.73	2.78	--	--	477.95
5/2/2019	480.73	2.85	--	--	477.88
6/3/2019	480.73	3.12	--	--	477.61
7/9/2019	480.73	3.49	--	--	477.24
8/26/2019	480.73	3.95	--	--	476.78
9/12/2019	480.73	4.08	--	--	476.65
10/9/2019	480.73	4.54	--	--	476.19
11/11/2019	480.73	4.15	--	--	476.58
12/12/2019	480.73	4.17	--	--	476.56
1/6/2020	480.73	3.94	--	--	476.79
2/6/2020	480.73	3.95	--	--	476.78
3/5/2020	480.73	4.03	--	--	476.70
4/29/2020	480.73	3.61	--	--	477.12
MW-2					
4/4/2018	478.20	12.98	--	--	465.22
5/30/2018	478.20	10.42	--	--	467.78
6/28/2018	478.20	9.98	--	--	468.22
7/11/2018	478.20	10.61	--	--	467.59
8/9/2018	478.20	9.36	--	--	468.84
9/4/2018	478.20	9.54	--	--	468.66
10/18/2018	478.20	9.80	--	--	468.40
11/2/2018	478.20	9.59	--	--	468.61
12/6/2018	478.20	8.44	--	--	469.76
1/11/2019	478.20	7.17	--	--	471.03
2/14/2019	478.20	6.69	--	--	471.51
3/13/2019	478.20	6.27	--	--	471.93
4/2/2019	478.20	6.57	--	--	471.63
5/2/2019	478.20	6.91	--	--	471.29
6/3/2019	478.20	7.25	--	--	470.95
7/9/2019	478.20	8.19	--	--	470.01
8/26/2019	478.20	9.41	--	--	468.79
9/12/2019	478.20	9.93	--	--	468.27
10/9/2019	478.20	10.86	--	--	467.34
11/11/2019	478.20	10.35	--	--	467.85
12/12/2019	478.20	11.91	--	--	466.29
1/6/2020	478.20	9.98	--	--	468.22
2/6/2020	478.20	9.66	--	--	468.54
3/5/2020	478.20	9.88	--	--	468.32
4/29/2020	478.20	8.98	--	--	469.22
MW-3					
4/4/2018	476.86	19.17	--	--	457.69
5/30/2018	476.86	17.75	--	--	459.11
6/28/2018	476.86	17.37	--	--	459.49
7/11/2018	476.86	17.67	--	--	459.19
8/9/2018	476.86	16.86	--	--	460.00
9/4/2018	476.86	17.03	--	--	459.83
10/18/2018	476.86	16.60	--	--	460.26
11/2/2018	476.86	16.68	--	--	460.18
12/6/2018	476.86	15.11	--	--	461.75
1/11/2019	476.86	13.13	--	--	463.73
2/14/2019	476.86	13.47	--	--	463.39
3/13/2019	476.86	13.29	--	--	463.57
4/2/2019	476.86	13.34	--	--	463.52
5/2/2019	476.86	13.63	--	--	463.23
6/3/2019	476.86	14.01	--	--	462.85
7/9/2019	476.86	14.88	--	--	461.98
8/26/2019	476.86	15.81	--	--	461.05
9/12/2019	476.86	16.19	--	--	460.67
10/9/2019	476.86	16.69	--	--	460.17
11/11/2019	476.86	16.38	--	--	460.48
12/12/2019	476.86	16.40	--	--	460.46
1/6/2020	476.86	15.95	--	--	460.91
2/6/2020	476.86	15.81	--	--	461.05
3/5/2020	476.86	15.81	--	--	461.05
4/29/2020	476.86	15.21	--	--	461.65

Gauging Date	TOC Elevation	Depth to Water	Depth to Product	Product Thickness	GW Elevation
MW-4					
4/4/2018	477.15	15.51	--	--	461.64
5/30/2018	477.15	13.52	--	--	463.63
6/28/2018	477.15	12.34	--	--	464.81
7/11/2018	477.15	12.92	--	--	464.23
8/9/2018	477.15	11.68	--	--	465.47
9/4/2018	477.15	12.08	--	--	465.07
10/18/2018	477.15	11.19	--	--	465.96
11/2/2018	477.15	11.21	--	--	465.94
12/6/2018	477.15	8.97	--	--	468.18
1/11/2019	477.15	6.70	--	--	470.45
2/14/2019	477.15	6.31	--	--	470.84
3/13/2019	477.15	6.28	--	--	470.87
4/2/2019	477.15	6.98	--	--	470.17
5/2/2019	477.15	7.73	--	--	469.42
6/3/2019	477.15	8.51	--	--	468.64
7/9/2019	477.15	9.81	--	--	467.34
8/26/2019	477.15	11.11	--	--	466.04
9/12/2019	477.15	11.67	--	--	465.48
10/9/2019	477.15	12.40	--	--	464.75
11/11/2019	477.15	11.95	--	--	465.20
12/12/2019	477.15	12.45	--	--	464.70
1/6/2020	477.15	11.65	--	--	465.50
2/6/2020	477.15	11.68	--	--	465.47
3/5/2020	477.15	11.65	--	--	465.50
4/29/2020	477.15	11.10	--	--	466.05
MW-5					
4/4/2018	477.44	14.01	--	--	463.43
5/30/2018	477.44	11.76	--	--	465.68
6/28/2018	477.44	10.67	--	--	466.77
7/11/2018	477.44	11.31	--	--	466.13
8/9/2018	477.44	9.72	--	--	467.72
9/4/2018	477.44	10.30	--	--	467.14
10/18/2018	477.44	8.78	--	--	468.66
11/2/2018	477.44	8.55	--	--	468.89
12/6/2018	477.44	6.46	--	--	470.98
1/11/2019	477.44	4.96	--	--	472.48
2/14/2019	477.44	4.64	--	--	472.80
3/13/2019	477.44	4.70	--	--	472.74
4/2/2019	477.44	5.35	--	--	472.09
5/2/2019	477.44	--	--	--	--
6/3/2019	477.44	--	--	--	--
7/9/2019	477.44	--	--	--	--
8/26/2019	477.44	--	--	--	--
9/12/2019	477.44	--	--	--	--
10/9/2019	477.44	--	--	--	--
11/11/2019	477.44	--	--	--	--
12/12/2019	477.44	--	--	--	--
1/6/2020	477.44	--	--	--	--
2/6/2020	477.44	--	--	--	--
3/5/2020	477.44	--	--	--	--
4/29/2020	477.44	--	--	--	--
MW-6					
4/4/2018	480.62	29.04	--	--	451.58
5/30/2018	480.62	27.35	--	--	453.27
6/28/2018	480.62	25.87	--	--	454.75
7/11/2018	480.62	26.46	--	--	454.16
8/9/2018	480.62	NM	--	--	-
9/4/2018	480.62	25.89	--	--	454.73
10/18/2018	480.62	24.93	--	--	455.69
11/2/2018	480.62	25.14	--	--	455.48
12/6/2018	480.62	21.85	--	--	458.77
1/11/2019	480.62	17.13	--	--	463.49
2/14/2019	480.62	16.74	--	--	463.88
3/13/2019	480.62	17.12	--	--	463.50
4/2/2019	480.62	18.9	--	--	461.72
5/2/2019	480.62	20.25	--	--	460.37
6/3/2019	480.62	21.50	--	--	459.12
7/9/2019	480.62	22.66	--	--	457.96
8/26/2019	480.62	24.13	--	--	456.49
9/12/2019	480.62	25.00	--	--	455.62
10/9/2019	480.62	26.81	--	--	453.81
11/11/2019	480.62	25.44	--	--	455.18
12/12/2019	480.62	26.01	--	--	454.61
1/6/2020	480.62	25.09	--	--	455.53
2/6/2020	480.62	24.81	--	--	455.81
3/5/2020	480.62	24.75	--	--	455.87
4/29/2020	480.62	23.98	--	--	456.64

Gauging Date	TOC Elevation	Depth to Water	Depth to Product	Product Thickness	GW Elevation
MW-7					
4/4/2018	--	--	--	--	--
5/30/2018	--	--	--	--	--
6/28/2018	--	--	--	--	--
7/11/2018	--	--	--	--	--
8/9/2018	--	--	--	--	--
9/4/2018	--	--	--	--	--
10/18/2018	--	--	--	--	--
11/2/2018	--	--	--	--	--
12/6/2018	--	--	--	--	--
1/11/2019	--	--	--	--	--
2/14/2019	--	--	--	--	--
3/13/2019	--	--	--	--	--
4/2/2019	480.52	6.88	--	--	473.64
5/2/2019	480.52	7.83	--	--	472.69
6/3/2019	480.52	8.81	--	--	471.71
7/9/2019	480.52	9.95	--	--	470.57
8/26/2019	480.52	11.83	--	--	468.69
9/12/2019	480.52	12.76	--	--	467.76
10/9/2019	480.52	13.48	--	--	467.04
11/11/2019	480.52	12.07	--	--	468.45
12/12/2019	480.52	13.36	--	--	467.16
1/6/2020	480.52	12.52	--	--	468.00
2/6/2020	480.52	12.80	--	--	467.72
3/5/2020	480.52	12.75	--	--	467.77
4/29/2020	480.52	11.31	--	--	469.21
MW-8					
4/4/2018	--	--	--	--	--
5/30/2018	--	--	--	--	--
6/28/2018	--	--	--	--	--
7/11/2018	--	--	--	--	--
8/9/2018	--	--	--	--	--
9/4/2018	--	--	--	--	--
10/18/2018	--	--	--	--	--
11/2/2018	--	--	--	--	--
12/6/2018	--	--	--	--	--
1/11/2019	--	--	--	--	--
2/14/2019	--	--	--	--	--
3/13/2019	--	--	--	--	--
4/2/2019	477.27	10.94	--	--	466.33
5/2/2019	477.27	12.20	--	--	465.07
6/3/2019	477.27	13.05	--	--	464.22
7/9/2019	477.27	14.28	--	--	462.99
8/26/2019	477.27	15.47	--	--	461.80
9/12/2019	477.27	16.02	--	--	461.25
10/9/2019	477.27	16.74	--	--	460.53
11/11/2019	477.27	16.27	--	--	461.00
12/12/2019	477.27	16.86	--	--	460.41
1/6/2020	477.27	16.02	--	--	461.25
2/6/2020	477.27	15.93	--	--	461.34
3/5/2020	477.27	15.97	--	--	461.30
4/29/2020	477.27	15.38	--	--	461.89
MW-8D					
4/4/2018	--	--	--	--	--
5/30/2018	--	--	--	--	--
6/28/2018	--	--	--	--	--
7/11/2018	--	--	--	--	--
8/9/2018	--	--	--	--	--
9/4/2018	--	--	--	--	--
10/18/2018	--	--	--	--	--
11/2/2018	--	--	--	--	--
12/6/2018	--	--	--	--	--
1/11/2019	--	--	--	--	--
2/14/2019	--	--	--	--	--
3/13/2019	--	--	--	--	--
4/2/2019	--	--	--	--	--
5/2/2019	--	--	--	--	--
6/3/2019	--	--	--	--	--
7/9/2019	--	--	--	--	--
8/26/2019	--	--	--	--	--
9/12/2019	--	--	--	--	--
10/9/2019	--	--	--	--	--
11/11/2019	479.84	21.75	--	--	458.09
12/12/2019	479.84	21.14	--	--	458.70
1/6/2020	479.84	19.74	--	--	460.10
2/6/2020	479.84	20.25	--	--	459.59
3/5/2020	479.84	20.20	--	--	459.64
4/29/2020	479.84	19.40	--	--	460.44

Gauging Date	TOC Elevation	Depth to Water	Depth to Product	Product Thickness	GW Elevation
MW-9					
4/4/2018	--	--	--	--	--
5/30/2018	--	--	--	--	--
6/28/2018	--	--	--	--	--
7/11/2018	--	--	--	--	--
8/9/2018	--	--	--	--	--
9/4/2018	--	--	--	--	--
10/18/2018	--	--	--	--	--
11/2/2018	--	--	--	--	--
12/6/2018	--	--	--	--	--
1/11/2019	--	--	--	--	--
2/14/2019	--	--	--	--	--
3/13/2019	--	--	--	--	--
4/2/2019	475.43	14.41	--	--	461.02
5/2/2019	475.43	15.95	--	--	459.48
6/3/2019	475.43	17.06	--	--	458.37
7/9/2019	475.43	18.59	--	--	456.84
8/26/2019	475.43	20.05	--	--	455.38
9/12/2019	475.43	21.03	--	--	454.40
10/9/2019	475.43	21.87	--	--	453.56
11/11/2019	475.43	21.51	--	--	453.92
12/12/2019	475.43	21.95	--	--	453.48
1/6/2020	475.43	21.25	--	--	454.18
2/6/2020	475.43	20.93	--	--	454.50
3/5/2020	475.43	20.83	--	--	454.60
4/29/2020	475.43	20.03	--	--	455.40
MW-10					
4/4/2018	--	--	--	--	--
5/30/2018	--	--	--	--	--
6/28/2018	--	--	--	--	--
7/11/2018	--	--	--	--	--
8/9/2018	--	--	--	--	--
9/4/2018	--	--	--	--	--
10/18/2018	--	--	--	--	--
11/2/2018	--	--	--	--	--
12/6/2018	--	--	--	--	--
1/11/2019	--	--	--	--	--
2/14/2019	--	--	--	--	--
3/13/2019	--	--	--	--	--
4/2/2019	476.84	4.82	--	--	472.02
5/2/2019	476.84	5.65	--	--	471.19
6/3/2019	476.84	6.35	--	--	470.49
7/9/2019	476.84	7.43	--	--	469.41
8/26/2019	476.84	8.75	--	--	468.09
9/12/2019	476.84	9.56	--	--	467.28
10/9/2019	476.84	10.61	--	--	466.23
11/11/2019	476.84	10.85	--	--	465.99
12/12/2019	476.84	10.39	--	--	466.45
1/6/2020	476.84	9.41	--	--	467.43
2/6/2020	476.84	8.21	--	--	468.63
3/5/2020	476.84	9.82	--	--	467.02
4/29/2020	476.84	8.30	--	--	468.54
MW-11					
4/4/2018	--	--	--	--	--
5/30/2018	--	--	--	--	--
6/28/2018	--	--	--	--	--
7/11/2018	--	--	--	--	--
8/9/2018	--	--	--	--	--
9/4/2018	--	--	--	--	--
10/18/2018	--	--	--	--	--
11/2/2018	--	--	--	--	--
12/6/2018	--	--	--	--	--
1/11/2019	--	--	--	--	--
2/14/2019	--	--	--	--	--
3/13/2019	--	--	--	--	--
4/2/2019	476.90	3.92	--	--	472.98
5/2/2019	476.90	5.68	--	--	471.22
6/3/2019	476.90	6.30	--	--	470.60
7/9/2019	476.90	6.23	--	--	470.67
8/26/2019	476.90	7.51	--	--	469.39
9/12/2019	476.90	8.35	--	--	468.55
10/9/2019	476.90	9.49	--	--	467.41
11/11/2019	476.90	8.73	--	--	468.17
12/12/2019	476.90	9.05	--	--	467.85
1/6/2020	476.90	7.99	--	--	468.91
2/6/2020	476.90	9.62	--	--	467.28
3/5/2020	476.90	8.32	--	--	468.58
4/29/2020	476.90	7.32	--	--	469.58

Gauging Date	TOC Elevation	Depth to Water	Depth to Product	Product Thickness	GW Elevation
MW-12					
4/4/2018	--	--	--	--	--
5/30/2018	--	--	--	--	--
6/28/2018	--	--	--	--	--
7/11/2018	--	--	--	--	--
8/9/2018	--	--	--	--	--
9/4/2018	--	--	--	--	--
10/18/2018	--	--	--	--	--
11/2/2018	--	--	--	--	--
12/6/2018	--	--	--	--	--
1/11/2019	--	--	--	--	--
2/14/2019	--	--	--	--	--
3/13/2019	--	--	--	--	--
4/2/2019	--	--	--	--	--
5/2/2019	--	--	--	--	--
6/3/2019	--	--	--	--	--
7/9/2019	--	--	--	--	--
8/26/2019	--	--	--	--	--
9/12/2019	--	--	--	--	--
10/9/2019	--	--	--	--	--
11/11/2019	--	--	--	--	--
12/12/2019	--	--	--	--	--
1/6/2020	480.38	24.35	--	--	456.03
2/6/2020	480.38	24.07	--	--	456.31
3/5/2020	480.38	23.95	--	--	456.43
4/29/2020	480.38	23.35	--	--	457.03
MW-13					
4/4/2018	--	--	--	--	--
5/30/2018	--	--	--	--	--
6/28/2018	--	--	--	--	--
7/11/2018	--	--	--	--	--
8/9/2018	--	--	--	--	--
9/4/2018	--	--	--	--	--
10/18/2018	--	--	--	--	--
11/2/2018	--	--	--	--	--
12/6/2018	--	--	--	--	--
1/11/2019	--	--	--	--	--
2/14/2019	--	--	--	--	--
3/13/2019	--	--	--	--	--
4/2/2019	--	--	--	--	--
5/2/2019	--	--	--	--	--
6/3/2019	--	--	--	--	--
7/9/2019	--	--	--	--	--
8/26/2019	--	--	--	--	--
9/12/2019	--	--	--	--	--
10/9/2019	--	--	--	--	--
11/11/2019	--	--	--	--	--
12/12/2019	--	--	--	--	--
1/6/2020	473.19	18.59	--	--	454.60
2/6/2020	473.19	18.30	--	--	454.89
3/5/2020	473.19	18.21	--	--	454.98
4/29/2020	473.19	17.42	--	--	455.77

TOC - Top of Casing
Elevations in feet above mean sea level (amsl)
Depth to water and depth to product in feet below TOC
Groundwater elevation in feet amsl.
NM - Not measured.
"--" - Not Applicable.

APPENDIX C

Field Forms – Low Flow Purging and Sampling

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet 1 of 1

Weather:

WELL NUMBER	WELL INFORMATION					
MW-1	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 4-30-2020
PERMIT NUMBER						TRC Personnel: D. Kudla / J. Lowrto
						Site Name: Bel Air Station
						Site Location: Fallston MD
	4	19.05	4.02	—	0.0	TRC Job Number: 299980.0000.0000

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
Monsoon	Poly	~8'	0730	0815	200	~2.25	Rental Meter Name: YSI 6820		
							Rental Meter Serial No.: 27879		

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)										
	Criteria:	<0.3 ft	± 3%	± 0.1 su	± 3%	± 10%	± 10 mv	± 10%(3)		
Time	Flow Rate (ml/min)	Depth to Water (ft)	Temp (°C)	pH (su)	Cond (mS/cm)	D.O. (mg/L)	ORP (mv)	Turbidity (NTU)	Initials	Water Conditions/Comments
0735	200	4.02	11.52	6.14	.087	8.73	166.2	-.3	DK	Clear
0740		4.09	11.32	5.81	.087	8.27	179.1	.2	DK	
0745		4.06	11.38	5.77	.087	8.13	193.2	0.0	DK	
0750		4.08	11.35	5.76	.086	8.14	199.6	0.0	DK	
0755		4.08	11.58	5.76	.086	8.07	207.9	-.2	DK	
0800		4.08	11.61	5.76	.085	8.07	212.4	-.5	DK	
0805		4.08	11.63	5.77	.087	8.08	215.6	-.7	DK	
0810		4.09	11.69	5.77	.087	8.06	216.9	-1.0	DK	
0815	—	—	—	—	—	—	—	—	DK	SAMPLE

Comments:

Analytical Parameters:
VOC + fuel oxygenates + naphthalene, DRO, GRO

Sample Start Time: 0815
Sample Finish Time: 0820

Weather Conditions:
~58° Cloudy

Revised 04/12

(3) For values greater than 1.
Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)
Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC Job No. _____

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet ___ of ___

Weather:

WELL NUMBER	WELL INFORMATION					
MW-2	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	
PERMIT NUMBER	4"	17.80'	9.03'	N/A	N/A	

Date: 04/29/2020
TRC Personnel: James Lovato
Site Name: CPC Belair
Site Location: Falkton, MD
TRC Job Number: 299980

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION						
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)
2" Monsoon	3/8" Poly	14.80	13:45	14:30	300	5.0

(2) Below TOC

TRC METER NUMBERS		
pH:	Cond:	DO:
Eh:	Turbidity:	NJDEP Cert. No. 07734
Rental Meter Name:		
Rental Meter Serial No.:		

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3% Temp (°C)	± 0.1 su pH (su)	± 3% Cond (mS/cm)	± 10% D.O. (mg/L)	± 10 mv ORP (mv)	± 10%(3) Turbidity (NTU)	Initials	Water Conditions/Comments
13:45	300	9.80'	14.90	5.80	0.384	0.21	122.4	11.8		Clear
13:50	300	9.77'	14.88	5.86	0.384	0.23	121.1	12.1		
13:55	300	9.80'	14.72	5.88	0.383	0.11	125.1	8.2		
14:00	300	9.82'	14.71	5.88	0.383	0.11	123.2	6.7		
14:05	300	9.77'	14.99	5.85	0.390	0.08	132.2	5.4		
14:10	300	9.85'	14.64	5.84	0.393	0.07	134.8	2.1		
14:15	300	10.13'	14.81	5.85	0.387	0.05	134.7	5.5		
14:20	300	10.18'	15.91	5.91	0.385	0.04	135.8	6.7		
14:25	300	11.15'	15.04	5.98	0.347	0.15	124.9	0.4		
SAMPLE 14:30	300	11.21	15.02	6.01	0.347	0.03	124.9	0.1		
SAMPLE DUP-2 14:35	300	11.18'	14.98	6.00	0.347	0.04	128.6	0.2		

Comments: Equipment Blank collected at 13:30 before Sampling
DUP-2 collected at 14:35

Analytical Parameters: VOC, Napthalene, Oxygenated fuels
TPH-DRO, TPH-GRO

Sample Start Time: 14:30
Sample Finish Time: 14:35

Weather Conditions: Sunny, 60°F

Revised 04/12

(3) For values greater than 1.
Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)
Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet 1 of 1

Weather:

WELL NUMBER	WELL INFORMATION					
MW-3	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 4-30-2020
PERMIT NUMBER						TRC Personnel: D Kudla / J Lacurto
						Site Name: Bel Air Station
						Site Location: Fallston MD
	4	24.7	15.21	–	0.0	TRC Job Number: 299980.0000.0000

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
							Rental Meter Name:	YSI 6820	
Monsoon	Poly	~18'	0900	0935	200	~1.75	Rental Meter Serial No.:	27879	

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3% Temp (°C)	± 0.1 su pH (su)	± 3% Cond (mS/cm)	± 10% D.O. (mg/L)	± 10 mv ORP (mv)	± 10%(3) Turbidity (NTU)	Initials	Water Conditions/Comments
0905	200	15.21	11.78	5.88	.104	7.29	218.7	0	DK	Clear
0910	↓	15.24	11.69	5.84	.104	7.05	225.2	-.7	DK	
0915		15.24	11.70	5.84	.104	6.98	229.2	-1	DK	
0920		15.25	11.75	5.85	.105	6.94	231.4	-1.1	DK	
0925	↓	15.25	11.74	5.85	.103	6.91	234.9	-1.5	DK	
0930		15.25	11.78	5.84	.104	6.90	235.5	-1.5	DK	
0935	—	—	—	—	—	—	—	—	DK	SAMPLE

Comments:

Analytical Parameters:
VOC + fuel oxygenates + naphthalene, DRO, GRO

Sample Start Time: 0935
Sample Finish Time: 0940

Weather Conditions:
~58°, Cloudy

Revised 04/12

(3) For values greater than 1.
Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)
Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC Job No. _____

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet ___ of ___

Weather:

WELL NUMBER	WELL INFORMATION					
MW-4	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 04/29/2020
PERMIT NUMBER						TRC Personnel: James Lecurto
						Site Name: CRC Belair
						Site Location: Fallston, MD.
	4"	19.0'	11.21'	N/A	N/A	TRC Job Number: 299980

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
							Rental Meter Name:		
2" Monsoon	3/8" poly	16.0'	12:30	13:15	300	5.0	Rental Meter Serial No.:		

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3% Temp (°C)	± 0.1 su pH (su)	± 3% Cond (mS/cm)	± 10% D.O. (mg/L)	± 10 mv ORP (mv)	± 10%(3) Turbidity (NTU)	Initials	Water Conditions/Comments
12:30	300	11.25'	15.44	5.64	0.326	1.65	164.9	3.6		Clear
12:35	300	11.40'	15.38	5.68	0.327	1.11	164.7	0.7		
12:40	300	12.10'	16.13	5.82	0.321	1.90	150.3	4.9		
12:45	300	12.17'	16.60	5.83	0.313	1.78	133.2	1.6		
12:50	300	12.0'	15.73	5.74	0.308	0.82	133.2	3.9		
12:55	300									
13:00	300	12.20'	16.59	5.85	0.306	1.53	134.2	2.8		
13:05	300	12.10	16.53	5.77	0.304	0.93	134.0	5.4		
13:10	300	12.02'	16.31	5.77	0.301	0.58	130.2	0.3		
13:15	300	12.01'	16.26	5.77	0.301	0.56	130.2	3.6		
SAMPLE										

Comments:

Analytical Parameters: VOC, Napthalene, and Oxygenated fuels
TPH-DRO, TPH-GRO

Sample Start Time: 13:15
Sample Finish Time: 13:18

Weather Conditions: Sunny, 65°F

Revised 04/12

(3) For values greater than 1.
Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)
Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC Job No. _____

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet ___ of ___

Weather:

WELL NUMBER	WELL INFORMATION					
MW-6	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 04/30/2020
PERMIT NUMBER						TRC Personnel: James Locurto
						Site Name: CPC Belair
						Site Location: Fallston, MD
	4"	30.30'	19.9'	N/A	N/A	TRC Job Number: 299990

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
2" Monsoon	3/8" Poly	27.30'	7:40	8:25	300	5.0	Rental Meter Name:		
							Rental Meter Serial No.:		

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

Time	Flow Rate (ml/min)	Depth to Water (ft)	Temp (°C)	pH (su)	Cond (mS/cm)	D.O. (mg/L)	ORP (mv)	Turbidity (NTU)	Initials	Water Conditions/Comments
Criteria:		<0.3 ft	± 3%	± 0.1 su	± 3%	± 10%	± 10 mv	± 10%(3)		
7:40	300	21.20	14.91	5.71	0.990	0.18	98.6	40.9		Clear
7:45	300	23.80	15.24	5.78	0.108	0.20	97.3	41.2		
7:50	300	24.30	15.31	5.86	0.108	0.21	98.3	28.7		
7:55	300	24.30	15.31	5.95	0.110	0.21	97.2	22.7		
8:00	300	24.21	15.22	5.88	0.117	0.22	105.2	14.3		
8:05	300	23.18	15.61	5.89	0.119	0.28	112.9	7.8		
8:10	300	24.02'	15.39	5.89	0.117	0.26	111.5	7.4		
8:15	300	24.01'	15.53	5.86	0.121	0.26	119.2	4.2		
8:20	300	23.95'	15.29	5.88	0.120	0.27	112.7	0.9		
SAMPLE 8:25	300	23.50'	15.32	5.88	0.120	0.27	113.2	0.7		

Comments:

Analytical Parameters: VOC with Napthalene and Oxygenated fuels, TPH-DRO TPH-GRO

Sample Start Time: 8:25
Sample Finish Time: 8:28

Weather Conditions: Cloudy, 63°F

Revised 04/12

(3) For values greater than 1.
Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)
Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet ___ of ___

Weather:

WELL NUMBER	WELL INFORMATION					
MW-7	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 04/29/2020
PERMIT NUMBER						TRC Personnel: James Lecorte
						Site Name: BELAER
						Site Location: Fallston, MD
	4"	23.02'	11.31'	N/A	0.0	TRC Job Number:

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
							Rental Meter Name:		
2" Monsoon	3/8" Poly	19.0'	9:30		350-400		Rental Meter Serial No.:		

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3% Temp (°C)	± 0.1 su pH (su)	± 3% Cond (mS/cm)	± 10% D.O. (mg/L)	± 10 mv ORP (mv)	± 10%(3) Turbidity (NTU)	Initials	Water Conditions/Comments
9:30	400	11.31	11.06	6.56	0.048	8.21	128.7	3.0	[illegible]	Clear.
9:35	400	11.33'	11.05	6.52	0.052	8.43	127.2	3.1	[illegible]	
9:40	400	12.30'	11.07	6.64	0.052	8.09	127.6	0.6	[illegible]	
9:45	400	12.32'	11.27	6.66	0.050	7.95	130.1	0	[illegible]	
9:50	400	12.31'	11.28	6.65	0.051	7.94	132.9	0	[illegible]	
9:55	400	12.32'	11.30	6.65	0.051	7.90	133.7	1.8	[illegible]	
10:00	400	12.18'	11.31	6.66	0.070	8.06	133.4	10.2	[illegible]	
10:05	400	12.22'	11.26	6.60	0.070	7.95	140.2	7.7	[illegible]	
10:10	400	12.21'	11.23	6.64	0.070	7.94	142.1	8.5	[illegible]	
SAMPLE 10:15	400	12.12'	11.25	6.68	0.070	8.34	140.8	6.4		

Comments:

Analytical Parameters: VOC with Naphthalene + fuel oxygenates, TPH-DRO, TPH-GRO

Sample Start Time: 10:15
Sample Finish Time: 10:18

Weather Conditions: Sunny, 60°F

Revised 04/12

(3) For values greater than 1.
Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)
Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet ___ of ___

Weather:

WELL NUMBER	WELL INFORMATION					
MW-8	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 04/29/2020
PERMIT NUMBER						TRC Personnel: James Lacerda
						Site Name: CPC Bel Air
						Site Location: Fallston, MD
	4"	19.5'	15.36	N/A	N/A	TRC Job Number: 299980

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
							Rental Meter Name:		
2" Monsoon	3/8" Poly	16.5'	14:55	15:35	300	5	Rental Meter Serial No.:		

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3% Temp (°C)	± 0.1 su pH (su)	± 3% Cond (mS/cm)	± 10% D.O. (mg/L)	± 10 mv ORP (mv)	± 10%(3) Turbidity (NTU)	Initials	Water Conditions/Comments
14:55	300	15.68	16.36	5.70	0.044	1.78	145.9	30.2		Clear
15:00	300	15.74'	15.81	5.21	0.042	1.54	209.1	37.0		
15:05	300	15.87	15.85	5.19	0.044	1.50	226.2	33.2		
15:10	300	[illegible]5.94	15.85	5.25	0.050	1.34	185.6	27.6		
15:15	300	16.10	15.85	5.28	0.057	1.26	222.2	16.5		
15:20	300	16.08'	15.85	5.26	0.061	1.22	228.0	14.5		
15:25	300	16.12'	16.13	5.37	0.064	1.16	174.2	12.7		
15:30	300	15.97'	16.18	5.32	0.074	1.06	193.2	8.2		
SAMPLE 15:35	300	16.01'	16.14	5.34	0.071	1.04	158.2	6.2		

Comments: VOC, Naphthalene Oxygenated Fuels, TPH-DRO, TPH-GRO

Analytical Parameters:

Sample Start Time: 15:35
Sample Finish Time: 15:40

Weather Conditions: Sunny, 68°F

Revised 04/12

(3) For values greater than 1.

Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)

Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet 1 of 1

Weather:

WELL NUMBER	WELL INFORMATION					
MW-8D	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 4-29-2020
PERMIT NUMBER						TRC Personnel: D. Kudla / J. Locurto
						Site Name: Bel Air Station
						Site Location: Fallston MD
	2	61.87	19.52	–	0.0	TRC Job Number: 299980.0000.0000

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
Monsoon	Poly	55'	1415	1450	200	1.8	Rental Meter Name: YSI 6820		
							Rental Meter Serial No.: 27879		

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3% Temp (°C)	± 0.1 su pH (su)	± 3% Cond (mS/cm)	± 10% D.O. (mg/L)	± 10 mv ORP (mv)	± 10%(3) Turbidity (NTU)	Initials	Water Conditions/Comments
1420	200	21.62	15.12	6.10	.174	0	227.1	161	DK	Clear
1425		21.95	14.89	6.05	.178	0	246.9	34.7	DK	
1430		21.99	14.94	6.05	.178	0	248.3	24.4	DK	
1435		22.16	14.93	6.05	.179	0	254.3	9.5	DK	
1440		22.28	14.94	6.04	.179	0	255.6	9.1	DK	
1445		22.30	14.92	6.04	.179	0	256.9	8.4	DK	
1450	–	–	–	–	–	–	–	–	DK	SAMPLE

Comments:
DO Malfunction

Analytical Parameters:
VOC + fuel oxygenates + Naphthalene, TPH-DRO, TPH-GRO

Sample Start Time: ~~1425~~ 1450
Sample Finish Time: ~~1450~~ 1455

Weather Conditions:
~ 68° Sunny

Revised 04/12

(3) For values greater than 1.
Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)
Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet 1 of 1

Weather:

WELL NUMBER	WELL INFORMATION					
MW-9	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 4-29-2020
PERMIT NUMBER						TRC Personnel: D Kudla / J. Lacurto
						Site Name: Bel Air Station
						Site Location: Fallston MD
	4	23.02	20.15	–	0	TRC Job Number: 299880.0000.0000

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
							Rental Meter Name:	VSI 6820	
Monsoon	Poly	~22	1525	1605	200	2	Rental Meter Serial No.:	27879	

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3% Temp (°C)	± 0.1 su pH (su)	± 3% Cond (mS/cm)	± 10% D.O. (mg/L)	± 10 mv ORP (mv)	± 10%(3) Turbidity (NTU)	Initials	Water Conditions/Comments
1530	200	20.05	13.08	5.40	.064	0	297.1	193	DK	Turbid
1535	↓	–	12.57	5.23	.063	0	286.9	199.7	DK	
1540		20.16	12.25	5.15	.062	0	288.3	153.2	DK	
1545		20.42	11.80	5.06	.062	0	284.3	49.6	DK	
1550		20.71	11.47	5.02	.062	0	290.1	6.6	DK	Clear
1555		20.90	11.44	5.02	.062	0	291.3	4.2	DK	
1600		20.96	11.42	5.03	.062	0	291.3	3.8	DK	
1605	–	–	–	–	–	–	–	–	DK	SAMPLE

Comments:
DO Malfunction

Analytical Parameters:
VOC + fuel oxygenates + naphthalene, DRO, GRO

Sample Start Time: 1605
Sample Finish Time: 1610

Weather Conditions:
~68, Sunny

Revised 04/12

(3) For values greater than 1.
Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)
Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC Job No. _____

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet ___ of ___

Weather:

WELL NUMBER	WELL INFORMATION					
MW-10	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 04/29/2020
PERMIT NUMBER						TRC Personnel: James L.
						Site Name: BGIAIP CRC
						Site Location: Fallston, MD
	4"	13.30'	8.77	N/A		TRC Job Number:

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
							Rental Meter Name:		
Jet Monsoon	3/8" Poly	10.50'	10:30	11:15	300-350	6.0	Rental Meter Serial No.:		

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3% Temp (°C)	± 0.1 su pH (su)	± 3% Cond (mS/cm)	± 10% D.O. (mg/L)	± 10 mv ORP (mv)	± 10%(3) Turbidity (NTU)	Initials	Water Conditions/Comments
10:30	300	8.83'	12.16	6.25	0.044	7.65	116.2	20.9	[illegible]	Clear
10:35	300	9.21'	13.48	6.05	0.044	6.45	122.1	19.3	[illegible]	
10:40	350	9.19'	11.90	5.87	0.041	4.79	136.8	7.3	[illegible]	
10:45	350	9.23'	12.15	5.50	0.039	3.40	165.2	6.5	[illegible]	
10:50	300	10.02	12.27	5.59	0.039	3.22	162.6	6.3	[illegible]	
10:55	300	10.05'	12.31	5.57	0.038	2.83	170.7	4.2	[illegible]	
11:00	300	9.91'	12.34	5.50	0.038	2.33	179.4	3.2	[illegible]	
11:05	300	9.93'	12.41	5.53	0.038	2.40	179.3	1.6	[illegible]	
11:10	300	9.90'	12.53	5.47	0.038	2.23	183.0	1.3	[illegible]	
*SAMPLE — 11:15	300	9.93'	12.37	5.48	0.038	2.22	182.4	0.2	[illegible]	

Comments:

Analytical Parameters: VOC with naphthalene and oxygenated fuels. TPH-DRO, TPH-GRO

Sample Start Time: 11:15
Sample Finish Time: 11:18

Weather Conditions: Sunny, 60°F

Revised 04/12

(3) For values greater than 1.
Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)
Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet ___ of ___

Weather:

WELL NUMBER	WELL INFORMATION					
MW-11	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 04/25/2020
PERMIT NUMBER						TRC Personnel: JamesL.
						Site Name: CPC BelAIR
						Site Location: Fallston, MD
	4"	13.50'	7.35'	N/A	N/A	TRC Job Number: 299980

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
							Rental Meter Name:		
2" Monsoon	3/8" Poly	10.5'	11:30	12:15	300	5.5	Rental Meter Serial No.:		

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

	Criteria:	<0.3 ft	± 3%	± 0.1 su	± 3%	± 10%	± 10 mv	± 10%(3)		
Time	Flow Rate (ml/min)	Depth to Water (ft)	Temp (°C)	pH (su)	Cond (mS/cm)	D.O. (mg/L)	ORP (mv)	Turbidity (NTU)	Initials	Water Conditions/Comments
11:30	350	7.38'	13.46	5.59	0.041	1.56	180.5	0.6		CLEAR
11:35	300	8.06'	13.16	5.41	0.041	0.90	163.6	0.5		
11:40	300	8.12'	13.18	5.68	0.043	2.10	140.6	0.2		
11:45	300	8.15'	13.06	5.67	0.044	2.02	141.3	0.1		
11:50	300	8.13'	12.98	5.66	0.044	1.69	141.7	0.0		
11:55	300	8.10'	13.09	5.66	0.044	1.49	131.8	Ø		
12:00	300	8.47'	13.14	5.67	0.044	1.29	127.1	Ø		
12:05	300	8.48'	13.06	5.67	0.045	0.92	123.3	Ø		
12:10	300	8.53'	13.51	5.70	0.045	0.94	117.7	Ø		
*SAMPLE→ 12:15	300	8.58'	13.48	5.68	0.045	0.93	116.0	Ø		

Comments: VOC with naphthalene and oxygenated fuel
TPH-DRO, TPH GRO

Analytical Parameters:

Sample Start Time: 12:15
Sample Finish Time: 12:18

Weather Conditions: Sunny, 62°F

Revised 04/12

(3) For values greater than 1.

Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)

Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet ___ of ___

Weather:

WELL NUMBER	WELL INFORMATION					
MW-12	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 4/30/2020
PERMIT NUMBER						TRC Personnel: James L.
						Site Name: CPC Belair
						Site Location: Fallston, MD
	4"	29.50	23.37	N/A	N/A	TRC Job Number: 2999 80

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
2" Monsoon	3/8" PE	26.0'	9:45	10:25	300	5.0	Rental Meter Name:		
							Rental Meter Serial No.:		

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

	Criteria:	<0.3 ft	± 3%	± 0.1 su	± 3%	± 10%	± 10 mv	± 10%(3)		
Time	Flow Rate (ml/min)	Depth to Water (ft)	Temp (°C)	pH (su)	Cond (mS/cm)	D.O. (mg/L)	ORP (mv)	Turbidity (NTU)	Initials	Water Conditions/Comments
9:45	300	23.45	15.65	5.83	0.142	0.50	48.4	1.8		Clear
9:50	300	23.47'	15.70	5.78	0.142	0.32	42.6	1.7		
9:55	300	23.72'	15.82	5.78	0.144	0.05	20.8	1.2		
10:00	~~9:00~~	300	24.12'	15.82	5.80	0.142	0.04	18.6	1.9	
10:05	~~9:05~~	300	24.11'	15.85	5.75	0.137	0.03	~~20~~ 20.6	1.6	
10:10	~~9:10~~	300	24.17'	15.94	5.76	0.136	0.02	21.5	2.1	
10:15	300	24.21'	16.02	5.73	0.136	0.03	19.8	0.7		
10:20	300	24.18'	15.96	5.75	0.135	0.05	19.1	0.3		
10:25	300	24.16	15.98	5.75	0.136	0.04	18.7	0.2		

Comments: Equipment Blank collected at 10:35 after sampling
Equipment Blank-002, 3 VOC Vials

Analytical Parameters: VOC with Napthalene and oxygenated fuels, TPH-DRO, TPH-GRO

Sample Start Time: 10:25
Sample Finish Time: 10:28

Weather Conditions: Rainy, 55°F

Revised 04/12

(3) For values greater than 1.

Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)

Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC

Field Form - Low Flow Purging and Sampling
Ground Water Sampling Measurements and Calculations

Sheet ___ of ___

Weather:

WELL NUMBER	WELL INFORMATION					
MW-13	Well Diameter (inches)	Total (1) Depth (ft)	Depth to Water TOC (ft)	Depth to Product TOC (ft)	PID (ppm)	Date: 4/30/2020
PERMIT NUMBER						TRC Personnel: James Lowrie
						Site Name: CPC Belair
						Site Location: Fallston, MD
		30.50'	17.38'	N/A	N/A	TRC Job Number: 299980

(1) Use a previously determined total depth. Confirm the total depth of well after sampling.
TOC = top of casing

PURGING INFORMATION							TRC METER NUMBERS		
Pump Type	Tubing Type	Pump (2) Intake Depth (ft)	Purge Start Time	Purge Stop Time	Flow Rate (ml/m)	Total Purge Vol. (gal)	pH:	Cond:	DO:
							Eh:	Turbidity:	NJDEP Cert. No. 07734
							Rental Meter Name:		
2" Monsoon	3/8" Poly	26.0'	8:45	9:30	300	6.5	Rental Meter Serial No.:		

(2) Below TOC

PURGING PARAMETERS (measurements are to be taken approximately every 5 minutes)

Time	Criteria: Flow Rate (ml/min)	<0.3 ft Depth to Water (ft)	± 3% Temp (°C)	± 0.1 su pH (su)	± 3% Cond (mS/cm)	± 10% D.O. (mg/L)	± 10 mv ORP (mv)	± 10%(3) Turbidity (NTU)	Initials	Water Conditions/Comments
8:45	300	17.56'	15.48	5.52	0.164	0.34	193.2	188.6		Cloudy Water
8:50	300	17.61'	15.58	5.60	0.164	0.20	187.8	85.7		
8:55	300	18.97'	15.70	5.58	0.163	0.07	193.8	79.0		Clear Water
9:00	300	17.54'	15.73	5.60	0.163	0.05	195.1	68.4		
9:05	300	17.58'	15.78	5.60	0.163	0.04	200.1	60.7		
9:10	300	17.61'	15.79	5.60	0.162	0.04	199.9	30.3		
9:15	300	17.62'	15.93	5.61	0.162	0.04	202.6	36.3		
9:20	300	17.61'	15.89	5.61	0.161	0.03	202.3	28.5		
9:25	300	17.62'	15.95	5.63	0.161	0.04	195.1	14.8		
9:30	300	17.61'	15.75	5.60	0.161	0.02	198.6	9.4		
9:35	300	17.63	15.78	5.60	0.157	0.02	199.4	7.2		
DUP-13 9:40	300	17.64	15.86	5.60	0.161	0.02	199.0	7.8		

Comments: DUP-13 collected at 9:40
MW-13 collected at 9:30

Analytical Parameters: VOC with Naphthalene and Oxygenated fuels
TPH-DRO, TPH-GRO

Sample Start Time: 9:30
Sample Finish Time: 9:43

Weather Conditions: Cloudy + windy, 58°F

Revised 04/12

(3) For values greater than 1.
Analytical Methods (EPA): Temp (SM 2550 B); pH (SM 4500-H B); Cond (120.1 and SM 2510 B); DO (SM 4500-O G); Salinity (SM 2520 B); Turbidity (EPA 180.1)
Note: Indicator parametes have stabilized when 3 consecutive readings are within criteria abov

TRC Job No. _____

TRC

FIELD INSTRUMENT AND CALIBRATION SHEET

Project Name: Belair Quarterly Sampling Project No. 29980

Personnel: James Locurto

Date: 04/30/2020 Start Time: 4:30 am End Time: 4:45 am

	Meter (make/model)	Serial # / Supplier #
pH	YSI 6920	18876- PINE
DO		
Conductivity		
Turbidity		
ORP		
Temperature		

pH Calibration (2-point minimum)

Buffer	Initial Reading (SU)	Post-Cal Reading (SU)	Temperature (°C)	Lot #/Exp. Date of Solution
7	7.02	7.01	15.48	9GJ499/10/31/2021
4				
10	10.12	10.00	15.50	9GJ499/8/30/2020

Dissolved Oxygen Calibration

Air Temp (°C)	Barometric Press. (mmHg)	Initial Saturation (%)	Initial Reading (mg/L)	Post-Cal Reading (%)	Post-Cal Reading (mg/L)
16.10	29.80	NO DO	Solution for	Calibration	

Specific Conductance (2-point)

Standard	Initial Reading (mS/cm or uS/cm)	Post-Cal Reading (mS/cm or uS/cm)	Temperature (°C)	Lot #/Exp. Date of Solution
0.0		---	---	---
1.413	1.415	1.413	16.18	9CH976/08/07/2020

Turbidity Calibration (2-point)

Standard	Initial Reading (NTU)	Post-Cal Reading (NTU)	Temperature (°C)	Lot #/Exp. Date of Solution
0.0	1.2	0.1	15.98	19332173/08/09/2020
126.0	128.7	126.0	16.01	19320916/04/30/2020

Oxidation Reduction Potential

Standard	Initial Reading (mV)	Post-Cal Reading (mV)	Temperature (°C)	Lot #/Exp. Date of Solution
240	239.6	240.1	16.12	9GH769/05/31/2020

Calibration Ranges

pH: +/- 0.2 SU DO: Varies Cond: +/- 1% Turb: +/- 5% ORP: +/- 25 mV

Problems Encountered	Corrective Action
N/A	N/A

Notes

YSI in good working condition.

TRC

FIELD INSTRUMENT AND CALIBRATION SHEET

Project Name: CPC - Bel Air Station Project No. 299980

Personnel: David Kudla / James Locurto

Date: 29-Apr-20 Start Time: 1720 End Time: 1805

	Meter (make/model)	Serial # / Supplier #
pH	YSI 6820	27879 / 98F0529
DO	YSI 6820	27879 / 98F0529
Conductivity	YSI 6820	27879 / 98F0529
Turbidity	YSI 6820	27879 / 98F0529
ORP	YSI 6820	27879 / 98F0529
Temperature	YSI 6820	27879 / 98F0529

pH Calibration (2-point minimum)

Buffer	Initial Reading (SU)	Post-Cal Reading (SU)	Temperature (°C)	Lot #/Exp. Date of Solution
7	6.07	7.00	21.60	9GJ499 / 10.31.2021
4	3.88	4.00	21.31	9GE1020 / 05.06.2021
10	10.01	10.00	23.38	9GF372 / 06.09.2021

Dissolved Oxygen Calibration

Air Temp (°C)	Barometric Press. (mmHg)	Initial Saturation (%)	Initial Reading (mg/L)	Post-Cal Reading (%)	Post-Cal Reading (mg/L)
19.93	754.9	98.7	8.97	99.3	9.04

Specific Conductance (2-point)

Standard	Initial Reading (mS/cm or uS/cm)	Post-Cal Reading (mS/cm or uS/cm)	Temperature (°C)	Lot #/Exp. Date of Solution
0.0	0.028	---	---	---
1.413	1.538	1.413	21.63	9GH976 / 08.09.2020

Turbidity Calibration (2-point)

Standard	Initial Reading (NTU)	Post-Cal Reading (NTU)	Temperature (°C)	Lot #/Exp. Date of Solution
0.0	0.9	0.0	21.13	19330173 / 08.27.2020
126.0	168	126	21.42	19320016 / 04.30.2020

Oxidation Reduction Potential

Standard	Initial Reading (mV)	Post-Cal Reading (mV)	Temperature (°C)	Lot #/Exp. Date of Solution
240.0	246.8	240.1	21.55	9GH769 / 05.31.2020

Calibration Ranges

pH: +/- 0.2 SU DO: Varies Cond: +/- 1% Turb: +/- 5% ORP: +/- 25 mV

Problems Encountered	Corrective Action

Notes

TRC

FIELD INSTRUMENT AND CALIBRATION SHEET

Project Name: BelAIR Quarterly Sampling
Project No. 2999980
Personnel: James Cocuzzo
Date: 04/29/2020
Start Time: 9:00
End Time: 9:15

Meter (make/model)		Serial # / Supplier #
pH	YSI 6920	18826 - PINE
DO		
Conductivity		
Turbidity		
ORP		
Temperature		

pH Calibration (2-point minimum)

Buffer	Initial Reading (SU)	Post-Cal Reading (SU)	Temperature (°C)	Lot #/Exp. Date of Solution
7	6.91	7.00	15.20	961499/10/31/2021
4	4.14	4.00	15.14	
10				

Dissolved Oxygen Calibration

Air Temp (°C)	Barometric Press. (mmHg)	Initial Saturation (%)	Initial Reading (mg/L)	Post-Cal Reading (%)	Post-Cal Reading (mg/L)
51°F	29.78	NO DO solution given for Calibration			

Specific Conductance (2-point)

Standard	Initial Reading (mS/cm or uS/cm)	Post-Cal Reading (mS/cm or uS/cm)	Temperature (°C)	Lot #/Exp. Date of Solution
0.0		---	---	---
1.413	1.3856	1.413		9GH926/ 08/09/2020

Turbidity Calibration (2-point)

Standard	Initial Reading (NTU)	Post-Cal Reading (NTU)	Temperature (°C)	Lot #/Exp. Date of Solution
0.0	17.1	0.2		19320173/ 03/22/2020
126.0	141.0	126.3		19320116/ 04/30/2020

Oxidation Reduction Potential

Standard	Initial Reading (mV)	Post-Cal Reading (mV)	Temperature (°C)	Lot #/Exp. Date of Solution
240	228.7	239.8		9GH769/ 05/31/2020

Calibration Ranges

pH: +/- 0.2 SU | DO: Varies | Cond: +/- 1% | Turb: +/- 5% | ORP: +/- 25 mV

Problems Encountered	Corrective Action
~~[illegible]~~ Turbidity was readily negative values	Had to release air pockets from YSI during Purge

Notes

YSI worked and in good condition

APPENDIX D

Groundwater Analytical Data Summary Master Table – Monitoring Wells (2018 to 2020)

APPENDIX D
Groundwater Analytical Data Summary - Monitoring Wells
April 2018 - April 2020
Colonial Pipeline Company - Bel Air Pump Station

		Sample No.:	MW-1																						MW-2																							
		Date Sampled:	4/5/2018			7/11/2018			10/18/2018			1/11/2019			4/2/2019			7/9/2019			10/10/2019			1/6/2020			4/30/2020			4/16/2018			7/12/2018			Dup-01 7/12/2018			10/18/2018			1/11/2019			4/3/2019			7/10/2019			10/9/2019			1/6/2020			4/29/2020			DUP-2 4/29/2020		
		Lab Sample ID:	18040603-01			18071207-01			18101903-03			19011104-01			19040216-02			19070908-02			19101001-01			20010706-04			20043003-11			18041603-01			18071207-08			18071207-06			18101903-04			19011104-02			19040304-02			19071005-01			19100908-03			20010706-05			20043003-05			20043003-07		
		Lab:	Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber		
Parameter (µg/L)	***CAS No.***	***MD GWQS***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***
Acetone	*67-64-1*	*550*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Benzene	*71-43-2*	*5*	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	**59**		1	**83**		1	**85**		1	**66**		1	**44**		1	**20**		1	**13**		1	**11**		1	**16**		1	**8**		1	**7**		1
Bromodichloromethane	*75-27-4*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromoform	*75-25-2*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromomethane	*74-83-9*	*0.85*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
2-Butanone (MEK)	*78-93-3*	*700*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Carbon Disulfide	*75-15-0*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Carbon tetrachloride	*56-23-5*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Chlorobenzene	*108-90-7*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Chloroethane	*75-00-3*	*3.6*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Chloroform	*67-66-3*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Chloromethane	*74-87-3*	*19*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
cis-1,2-Dichloroethene	*156-59-2*	*70*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
cis-1,3-Dichloropropene	*10061-01-*	*0.44*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Cyclohexane	*110-82-7*	*--*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	12		5	12		5	13		5	16		5	14		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dibromo-3-chloropropane	*96-12-8*	*0.2*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Dibromochloromethane	*124-48-1*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dibromoethane	*106-93-4*	*0.05*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dichlorobenzene	*95-50-1*	*600*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,3-Dichlorobenzene	*541-73-1*	*1.8*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,4-Dichlorobenzene	*106-46-7*	*75*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Dichlorodifluoromethane	*75-71-8*	*--*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethane	*75-34-3*	*90*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dichloroethane	*107-06-2*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethene	*75-35-4*	*7*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dichloropropane	*78-87-5*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,3-Dichloropropene (total)	*542-75-6*	*--*	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Ethylbenzene	*100-41-4*	*700*	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	11		1	5		1	5		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
2-Hexanone	*591-78-6*	*--*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Diisopropyl ether (DIPE)	*108-20-3*	*--*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	36		25	**58**		25	32		25	32		25
Isopropylbenzene	*98-82-8*	*66*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	6		5	5		5
Methyl Acetate	*79-20-9*	*--*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	*20*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	7		5	ND		5	ND		5	ND		5
4-methyl-2-pentanone (MIBK)	*108-10-1*	*630*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Methylcyclohexane	*108-87-2*	*--*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	5		5	5		5	10		5	7		5	9		5	ND		5	ND		5	ND		5	ND		5	ND		5
Methylene chloride	*75-09-2*	*5*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		10	ND		10	ND		10	ND		10
Naphthalene	*90-20-3*	*0.65*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		10	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*
Styrene	*100-42-5*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
tert-Amyl Alcohol (TAA)	*75-85-4*	*--*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	210		25	220		25	120		25	ND		25	50		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Amyl Ethyl Ether (TAEE)	*919-94-8*	*--*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Amyl Methyl Ether	*994-05-8*	*--*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Butyl Alcohol	*75-65-0*	*--*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Butyl Ethyl Ether (ETBE)	*637-92-3*	*--*	ND		25	ND		25	ND		25	ND		25	NA		NA	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.053*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Tetrachloroethene	*127-18-4*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Toluene	*108-88-3*	*1,000*	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	200		1	26		1	27		1	3		1	ND		1	2		1	ND		1	ND		1	ND		1	ND		1	ND		1
trans-1,2-Dichloroethene	*156-60-5*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
trans-1,3-Dichloropropene	*10061-02-*	*0.44*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Freon 113	*76-13-1*	*--*	ND		5	ND		5	ND		5	ND		5	NA		NA	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1,1-Trichloroethane	*71-55-6*	*200*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloroethane	*79-00-5*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Trichloroethene	*79-01-6*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Trichlorofluoromethane	*75-69-4*	*--*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,4-Trichlorobenzene	*120-82-1*	*70*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,4-Trimethylbenzene	*95-63-6*	*5.6*	NA			NA			NA			NA			NA			ND		5	ND		5	ND		5	ND		5	NA			NA			NA			NA			NA			NA			ND		5	ND		5	ND		5	ND		5
1,3,5-Trimethylbenzene	*108-67-8*	*6*	NA			NA			NA			NA			NA			ND		5	ND		5	ND		5	ND		5	NA			NA			NA			NA			NA			NA			ND		5	ND		5	ND		5	ND		5
Vinyl Chloride	*75-01-4*	*2*	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
m,p-Xylene	*179601-*	*--*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	62		5	21		5	22		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
o-Xylene	*95-47-6*	*--*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	36		5	74		5	77		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Xylenes (total)	*1330-20-7*	*10,000*	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	98		10	95		10	99		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10
Diesel Range Organics (DRO)	*68476-30-*	*47*	ND		*210*	ND		*200*	ND		*210*	ND		*200*	ND		*200*	ND		*240*	ND		*200*	ND		*200*	ND		*200*	NA			**500**		*200*	**450**		*200*	**630**		*200*	**340**		*200*	**280**		*200*	**390**		*220*	**300**		*210*	**340**		*210*	**370**		*200*	**410**		*200*
Gasoline Range Organics (GRO)	*8006-61-9*	*47*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	*ND*		*200*	*ND*		*200*	NA			**2,100**		*200*	**2,100**		*200*	**760**		*200*	**790**		*200*	**1,200**		*200*	**550**		*200*	**220**		*200*	**270**		*200*	**270**		*200*	**280**		*200*

Values are reported in micrograms per liter (µg/L)
GWQS: MD Groundwater Quality Standard-Type I Aquifers
Bold indicates concentrations above the MD GWQS
Values in italics indicate LLQ above applicable criterion.
ND = Not Detected above LLQ
NA = Not Analyzed
LLQ = Lowest Level of Quantitation
LLQ reported in parenthesis
NOTE: MW-5 was converted to a recovery well on May 16,2019 and changed to RW-5

APPENDIX D
Groundwater Analytical Data Summary - Monitoring Wells
April 2018 - April 2020
Colonial Pipeline Company - Bel Air Pump Station

		Sample No.:	MW-3																						MW-4																							
		Date Sampled:	4/5/2018			7/12/2018			10/18/2018			1/11/2019			4/2/2019			7/10/2019			10/10/2019			1/6/2020			4/30/2020			4/5/2018			7/11/2018			10/19/2018			1/11/2019			4/3/2019			7/10/2019			Dup-02 7/10/2019			10/9/2019			1/6/2020			4/29/2020		
		Lab Sample ID:	18040603-03			18071207-07			18101903-02			19011104-03			19040216-03			19071005-02			19101001-02			20010707-04			20043003-12			18040603-04			18071207-02			18101903-06			19011104-04			19040304-03			19071005-03			19071005-04			19100908-05			20010707-04			20043003-04		
		Lab:	Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber		
Parameter (µg/L)	***CAS No.***	***MD GWQS***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***
Acetone	*67-64-1*	*550*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Benzene	*71-43-2*	*5*	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	**19**		1	**16**		1	**27**		1	**36**		1	4		1	ND		1	ND		1
Bromodichloromethane	*75-27-4*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromoform	*75-25-2*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromomethane	*74-83-9*	*0.85*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		5	ND		5	ND		5	ND		5	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		5	ND		*5*	ND		*5*
2-Butanone (MEK)	*78-93-3*	*700*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Carbon Disulfide	*75-15-0*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Carbon tetrachloride	*56-23-5*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Chlorobenzene	*108-90-7*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Chloroethane	*75-00-3*	*3.6*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
Chloroform	*67-66-3*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Chloromethane	*74-87-3*	*19*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
cis-1,2-Dichloroethene	*156-59-2*	*70*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
cis-1,3-Dichloropropene	*10061-01-*	*0.44*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
Cyclohexane	*110-82-7*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dibromo-3-chloropropane	*96-12-8*	*0.2*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
Dibromochloromethane	*124-48-1*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dibromoethane	*106-93-4*	*0.05*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dichlorobenzene	*95-50-1*	*600*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,3-Dichlorobenzene	*541-73-1*	*1.8*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		5	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
1,4-Dichlorobenzene	*106-46-7*	*75*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Dichlorodifluoromethane	*75-71-8*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethane	*75-34-3*	*90*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dichloroethane	*107-06-2*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethene	*75-35-4*	*7*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dichloropropane	*78-87-5*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,3-Dichloropropene (total)	*542-75-6*	--	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA	NA		NA			NA			NA			NA			NA			NA			NA			NA			NA		
Ethylbenzene	*100-41-4*	*700*	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
2-Hexanone	*591-78-6*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		5	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Diisopropyl ether (DIPE)	*108-20-3*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Isopropylbenzene	*98-82-8*	*66*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Methyl Acetate	*79-20-9*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	*20*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-methyl-2-pentanone (MIBK)	*108-10-1*	*630*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Methylcyclohexane	*108-87-2*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Methylene chloride	*75-09-2*	*5*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		10	ND		10	ND		10	ND		10	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		10	ND		10	ND		10	ND		10
Naphthalene	*90-20-3*	*0.65*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*
Styrene	*100-42-5*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
tert-Amyl Alcohol (TAA)	*75-85-4*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Amyl Ethyl Ether (TAEE)	*919-94-8*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Amyl Methyl Ether	*994-05-8*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Butyl Alcohol	*75-65-0*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Butyl Ethyl Ether (ETBE)	*637-92-3*	--	ND		25	ND		25	ND		25	ND		25	NA			ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	NA			ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.053*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		5	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
Tetrachloroethene	*127-18-4*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Toluene	*108-88-3*	*1,000*	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	3		1	3		1	ND		1	ND		1	ND		1	ND		1	ND		1
trans-1,2-Dichloroethene	*156-60-5*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
trans-1,3-Dichloropropene	*10061-02-*	*0.44*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
Freon 113	*76-13-1*	--	ND		5	ND		5	ND		5	ND		5	NA			ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	NA			ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1,1-Trichloroethane	*71-55-6*	*200*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloroethane	*79-00-5*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Trichloroethene	*79-01-6*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Trichlorofluoromethane	*75-69-4*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,4-Trichlorobenzene	*120-82-1*	*70*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,4-Trimethylbenzene	*95-63-6*	*5.6*	NA			NA			NA			NA			NA			ND		5	ND		5	ND		5	ND		5	NA			NA			NA			NA			ND		5	ND		5	ND		5	ND		5	ND		5
1,3,5-Trimethylbenzene	*108-67-8*	*6*	NA			NA			NA			NA			NA			ND		5	ND		5	ND		5	ND		5	NA			NA			NA			NA			ND		5	ND		5	ND		5	ND		5	ND		5
Vinyl Chloride	*75-01-4*	*2*	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
m,p-Xylene	*179601-*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	30		5	7		5	ND		5	ND		5	ND		5	ND		5	ND		5
o-Xylene	*95-47-6*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	21		5	11		5	ND		5	ND		5	ND		5	ND		5	ND		5
Xylenes (total)	*1330-20-7*	*10,000*	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	51		10	18		10	ND		10	ND		10	ND		10	ND		10	ND		10
Diesel Range Organics (DRO)	*68476-30-*	*47*	ND		*200*	ND		*200*	ND		*200*	**310**		*200*	**900**		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	**220**		*200*	**240**		*200*	**340**		*200*	ND		*220*	ND		*200*	ND		*220*	**260**		*220*	ND		*240*	ND		*240*	**240**		*200*
Gasoline Range Organics (GRO)	*8006-61-9*	*47*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	**290**		*200*	**350**		**200**	**320**		*200*	**370**		*200*	ND		*200*	ND		*200*	ND		*200*

Values are reported in micrograms per liter (µg/L)
GWQS: MD Groundwater Quality Standard-Type I Aquifers
Bold indicates concentrations above the MD GWQS
Values in italics indicate LLQ above applicable criterion.
ND = Not Detected above LLQ
NA = Not Analyzed
LLQ = Lowest Level of Quantitation
LLQ reported in parenthesis
NOTE: MW-5 was converted to a recovery well on May 16,2019 and changed to RW-5

APPENDIX D

Groundwater Analytical Data Summary - Monitoring Wells

April 2018 - April 2020

Colonial Pipeline Company - Bel Air Pump Station

Sample No.:			MW-5/RW-5															
Date Sampled:			4/6/2018		7/11/2018		10/19/2018		Dup-01 10/19/2018		1/11/2019		4/2/2019		DUP-01 4/2/2019		1/7/2020	
Lab Sample ID:			18040603-05		18071207-03		18101903-07		18101903-08		19011104-05		19040216-08		19040216-09		20010708-01	
Lab:			Caliber		Caliber		Caliber		Caliber		Caliber		Caliber		Caliber		Caliber	
Parameter (µg/L)	CAS No.	MD GWQS	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ
Acetone	67-64-1	550	ND	25	300	130	ND	1,000	ND	1,000	ND	500	ND	5,000	ND	2,500	ND	500
Benzene	71-43-2	5	ND	1	**880**	5	**11,000**	40	**12,000**	40	**9,900**	200	**13,000**	200	**11,000**	200	**11,000**	20
Bromodichloromethane	75-27-4	80	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Bromoform	75-25-2	80	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Bromomethane	74-83-9	0.85	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
2-Butanone (MEK)	78-93-3	700	ND	25	ND	130	ND	1,000	ND	1,000	ND	500	ND	5,000	ND	2,500	ND	100
Carbon Disulfide	75-15-0	100	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Carbon tetrachloride	56-23-5	5	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Chlorobenzene	108-90-7	100	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Chloroethane	75-00-3	3.6	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Chloroform	67-66-3	80	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Chloromethane	74-87-3	19	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
cis-1,2-Dichloroethene	156-59-2	70	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
cis-1,3-Dichloropropene	10061-01-	0.44	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Cyclohexane	110-82-7	--	ND	5	ND	25	ND	200	ND	200	120	100	ND	1,000	ND	500	**200**	100
1,2-Dibromo-3-chloropropane	96-12-8	0.2	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Dibromochloromethane	124-48-1	80	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,2-Dibromoethane	106-93-4	0.05	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,2-Dichlorobenzene	95-50-1	600	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,3-Dichlorobenzene	541-73-1	1.8	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,4-Dichlorobenzene	106-46-7	75	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Dichlorodifluoromethane	75-71-8	--	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,1-Dichloroethane	75-34-3	90	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,2-Dichloroethane	107-06-2	5	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,1-Dichloroethene	75-35-4	7	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,2-Dichloropropane	78-87-5	5	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,3-Dichloropropene (total)	542-75-6	--	NA		NA		NA		NA		NA		NA		NA		ND	100
Ethylbenzene	100-41-4	700	ND	1	33	5	**920**	40	**890**	40	**780**	200	**1,000**	200	**850**	200	**910**	20
2-Hexanone	591-78-6	--	ND	25	ND	130	ND	1,000	ND	1,000	ND	500	ND	5,000	ND	2,500	ND	100
Diisopropyl ether (DIPE)	108-20-3	--	ND	25	ND	130	2,100	1,000	1,600	1,000	4,000	500	3,700	3,000	3,100	3,000	**5,900**	500
Isopropylbenzene	98-82-8	66	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Methyl Acetate	79-20-9	--	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Methyl Tert Butyl Ether (MTBE)	1634-04-4	20	ND	5	ND	25	ND	200	ND	200	**580**	100	ND	1,000	ND	500	**990**	100
4-methyl-2-pentanone (MIBK)	108-10-1	630	ND	25	ND	130	ND	1,000	ND	1,000	ND	500	ND	5,000	ND	2,500	ND	500
Methylcyclohexane	108-87-2	--	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Methylene chloride	75-09-2	5	ND	10	ND	50	ND	400	ND	400	ND	200	ND	200	ND	1000	ND	200
Naphthalene	90-20-3	0.65	ND	10	ND	50	ND	400	ND	400	**210**	200	ND	200	ND	1000	ND	200
Styrene	100-42-5	100	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
tert-Amyl Alcohol (TAA)	75-85-4	--	ND	25	1,000	130	7,700	1,000	6,000	1,000	ND	500	6,600	5,000	5,200	5,000	ND	500
tert-Amyl Ethyl Ether (TAEE)	919-94-8	--	ND	25	ND	130	ND	1,000	ND	1,000	ND	500	ND	5,000	ND	2,500	ND	500
tert-Amyl Methyl Ether	994-05-8	--	ND	25	ND	130	ND	1,000	ND	1,000	ND	500	ND	5,000	ND	2,500	ND	500
tert-Butyl Alcohol	75-65-0	--	ND	25	ND	130	ND	1,000	ND	1,000	ND	500	ND	5,000	ND	2,500	ND	500
tert-Butyl Ethyl Ether (ETBE)	637-92-3	--	ND	25	ND	130	ND	1,000	ND	1,000	ND	500	NA		NA		ND	500
1,1,2,2-Tetrachloroethane	79-34-5	0.053	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	500
Tetrachloroethene	127-18-4	5	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Toluene	108-88-3	1,000	ND	1	**2,300**	5	**18,000**	40	**15,000**	40	**12,000**	20	**19,000**	200	**16,000**	200	**17,000**	20
trans-1,2-Dichloroethene	156-60-5	100	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
trans-1,3-Dichloropropene	10061-02-	0.44	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Freon 113	76-13-1	--	ND	5	ND	25	ND	200	ND	200	ND	100	NA		NA		ND	100
1,1,1-Trichloroethane	71-55-6	200	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,1,2-Trichloroethane	79-00-5	5	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Trichloroethene	79-01-6	5	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
Trichlorofluoromethane	75-69-4	--	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,2,4-Trichlorobenzene	120-82-1	70	ND	5	ND	25	ND	200	ND	200	ND	100	ND	1,000	ND	500	ND	100
1,2,4-Trimethylbenzene	95-63-6	5.6	NA		NA		NA		NA		NA		NA		NA		**1,600**	100
1,3,5-Trimethylbenzene	108-67-8	6	NA		NA		NA		NA		NA		NA		NA		**460**	100
Vinyl Chloride	75-01-4	2	ND	1	ND	5	ND	40	ND	40	ND	20	ND	200	ND	100	ND	100
m,p-Xylene	179601-	--	ND	5	400	25	3,500	200	3,200	200	3,000	100	4,300	1,000	3,500	1,000	ND	100
o-Xylene	95-47-6	--	ND	5	320	25	1,700	200	1,500	200	1,400	100	1,900	1,000	1,600	1,000	**5,800**	100
Xylenes (total)	1330-20-7	10,000	ND	10	720	50	5,200	400	4,700	400	4,400	200	6,200	2,000	5,100	2,000	**3,100**	100
Diesel Range Organics (DRO)	68476-30-	47	ND	200	**760**	200	**8,200**	200	**8,800**	200	**10,000**	200	**9,900**	200	**9,600**	200	**10,000**	227
Gasoline Range Organics (GRO)	8006-61-9	47	ND	200	**12,000**	200	**34,000**	200	**34,000**	200	**14,000**	200	**100,000**	200	**75,000**	200	***29,000***	200

Sample No.:	MW-6																									
Date Sampled:	4/6/2018		7/12/2018		10/18/2018		1/11/2019		DUP-1 1/11/2019		4/3/2019		7/9/2019		DUP-1 7/9/2019		10/9/2019		DUP-01 10/9/2019		1/6/2020		DUP-1 1/6/2020		4/30/2020	
Lab Sample ID:	18040603-06		18071207-09		18101903-01		19011104-06		19011104-07		19040304-04		19070908-04		19070908-05		19100908-07		19100908-08		20010707		20010707-06		20043003-13	
Lab:	Caliber		Caliber		Caliber		Caliber		Caliber		Caliber		Caliber		Caliber		Caliber		Caliber		Caliber		Caliber		Caliber	
Parameter (µg/L)	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ	Result Q	LLQ
Acetone	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Benzene	ND	1	ND	1	4	1	2	1	2	1	ND	1	**47**	1	**48**	1	**36**	1	**36**	1	3	1	3	1	ND	1
Bromodichloromethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Bromoform	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Bromomethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
2-Butanone (MEK)	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Carbon Disulfide	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Carbon tetrachloride	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chlorobenzene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chloroethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chloroform	ND	5	ND	5	ND	5	ND	5	5	1	6	5	9	5	9	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chloromethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
cis-1,2-Dichloroethene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
cis-1,3-Dichloropropene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Cyclohexane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dibromo-3-chloropropane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Dibromochloromethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dibromoethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dichlorobenzene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,3-Dichlorobenzene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,4-Dichlorobenzene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Dichlorodifluoromethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1-Dichloroethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dichloroethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1-Dichloroethene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dichloropropane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,3-Dichloropropene (total)	NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA		NA	
Ethylbenzene	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
2-Hexanone	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Diisopropyl ether (DIPE)	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Isopropylbenzene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Methyl Acetate	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Methyl Tert Butyl Ether (MTBE)	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
4-methyl-2-pentanone (MIBK)	ND	25	ND	25	ND	25	ND	25	2	2	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Methylcyclohexane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Methylene chloride	ND	10	ND	10	ND	10	ND	15	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Naphthalene	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Styrene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
tert-Amyl Alcohol (TAA)	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
tert-Amyl Ethyl Ether (TAEE)	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
tert-Amyl Methyl Ether	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
tert-Butyl Alcohol	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
tert-Butyl Ethyl Ether (ETBE)	ND	25	ND	25	ND	25	ND	25	ND	25	NA		ND	25	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
1,1,2,2-Tetrachloroethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Tetrachloroethene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Toluene	ND	1	ND	1	ND	1	ND	1	2	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
trans-1,2-Dichloroethene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
trans-1,3-Dichloropropene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Freon 113	ND	5	ND	5	ND	5	ND	5	ND	5	NA		ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1,1-Trichloroethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,1,2-Trichloroethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichloroethene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichlorofluoromethane	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,4-Trichlorobenzene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,4-Trimethylbenzene	NA		NA		NA		NA		NA		NA		ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,3,5-Trimethylbenzene	NA		NA		NA		NA		NA		NA		ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Vinyl Chloride	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
m,p-Xylene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
o-Xylene	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5	16	5	16	5	ND	5	ND	5	ND	5	ND	5	ND	5
Xylenes (total)	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10	16	10	16	10	ND	10	ND	10	ND	5	ND	5	ND	5
Diesel Range Organics (DRO)	**210**	200	ND	200	ND	200	ND	200	ND	210	ND	200	ND	210	ND	210	ND	210	ND	210	ND	220	ND	220	ND	200
Gasoline Range Organics (GRO)	ND	200	ND	200	ND	200	ND	200	ND	200	ND	200	**520**	200	**530**	200	**260**	200	**330**	200	ND	200	ND	200	ND	200

Values are reported in micrograms per liter (µg/L)
GWQS: MD Groundwater Quality Standard-Type I Aquifers
Bold indicates concentrations above the MD GWQS
Values in italics indicate LLQ above applicable criterion.
ND = Not Detected above LLQ
NA = Not Analyzed
LLQ = Lowest Level of Quantitation
LLQ reported in parenthesis
NOTE: MW-5 was converted to a recovery well on
May 16,2019 and changed to RW-5

APPENDIX D
Groundwater Analytical Data Summary - Monitoring Wells
April 2018 - April 2020
Colonial Pipeline Company - Bel Air Pump Station

		Sample No.:	MW-7															MW-8												MW-8D				MW-9											
		Date Sampled:	4/3/2019			7/9/2019			10/9/2019			1/6/2020			1/23/2020			4/29/2020			4/2/2019			7/9/2019			10/9/2019			1/6/2020			4/29/2020			1/6/2020			4/29/2020			4/2/2019			7/9/2019			10/10/2019			1/6/2020			4/29/2020		
		Lab Sample ID:	19040304-01			19070908-03			19100908-02			20010707-03			20012301-01			20043003-01			19040216-04			19070908-06			19100908-01			20010706-03			20043003-06			20010706-02			20043003-09			19040216-01			19070908-01			19101001-03			20010707-01			20043003-10		
		Lab:	Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber		
Parameter (µg/L)	***CAS No.***	***MD GWQS***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***	***Result***	***Q***	***LLQ***
Acetone	*67-64-1*	*550*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Benzene	*71-43-2*	*5*	ND		1	ND		1	ND		1	**5**		1	ND		1	5		1	ND		1	ND		1	4		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
Bromodichloromethane	*75-27-4*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromoform	*75-25-2*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Bromomethane	*74-83-9*	*0.85*	ND		5	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
2-Butanone (MEK)	*78-93-3*	*700*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Carbon Disulfide	*75-15-0*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Carbon tetrachloride	*56-23-5*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Chlorobenzene	*108-90-7*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Chloroethane	*75-00-3*	*3.6*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
Chloroform	*67-66-3*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Chloromethane	*74-87-3*	*19*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
cis-1,2-Dichloroethene	*156-59-2*	*70*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
cis-1,3-Dichloropropene	*10061-01-*	*0.44*	ND		5	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
Cyclohexane	*110-82-7*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dibromo-3-chloropropane	*96-12-8*	*0.2*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
Dibromochloromethane	*124-48-1*	*80*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dibromoethane	*106-93-4*	*0.05*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dichlorobenzene	*95-50-1*	*600*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,3-Dichlorobenzene	*541-73-1*	*1.8*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
1,4-Dichlorobenzene	*106-46-7*	*75*	ND		*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		*5*	ND		*5*	ND		5	ND		5	ND		5	ND		5
Dichlorodifluoromethane	*75-71-8*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethane	*75-34-3*	*90*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dichloroethane	*107-06-2*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethene	*75-35-4*	*7*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2-Dichloropropane	*78-87-5*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,3-Dichloropropene (total)	*542-75-6*	--	NA			NA			NA			NA			ND			ND			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Ethylbenzene	*100-41-4*	*700*	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
2-Hexanone	*591-78-6*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Diisopropyl ether (DIPE)	*108-20-3*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	40		25	49		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Isopropylbenzene	*98-82-8*	*66*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Methyl Acetate	*79-20-9*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Methyl Tert Butyl Ether (MTBE)	*1634-04-4*	*20*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
4-methyl-2-pentanone (MIBK)	*108-10-1*	*630*	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
Methylcyclohexane	*108-87-2*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Methylene chloride	*75-09-2*	*5*	ND		*10*	ND		10	ND		10	ND		10	ND		10	ND		10	ND		*10*	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		*10*	ND		*10*	ND		10	ND		10
Naphthalene	*90-20-3*	*0.65*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*	ND		*10*
Styrene	*100-42-5*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
tert-Amyl Alcohol (TAA)	*75-85-4*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Amyl Ethyl Ether (TAEE)	*919-94-8*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Amyl Methyl Ether	*994-05-8*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Butyl Alcohol	*75-65-0*	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25
tert-Butyl Ethyl Ether (ETBE)	*637-92-3*	--	NA			ND		25	ND		25	ND		25	ND		25	NA			ND		25	ND		25	ND		25	ND		25	ND		25	NA			NA			ND		25	ND		25	ND		25	ND		25	ND		25
1,1,2,2-Tetrachloroethane	*79-34-5*	*0.053*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
Tetrachloroethene	*127-18-4*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Toluene	*108-88-3*	*1,000*	ND		1	ND		1	ND		1	3		1	ND		1	7		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
trans-1,2-Dichloroethene	*156-60-5*	*100*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
trans-1,3-Dichloropropene	*10061-02-*	*0.44*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*	ND		*5*
Freon 113	*76-13-1*	--	NA			ND		5	ND		5	ND		5	ND		5	NA			ND		5	ND		5	ND		5	ND		5	ND		5	NA			ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1,1-Trichloroethane	*71-55-6*	*200*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloroethane	*79-00-5*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Trichloroethene	*79-01-6*	*5*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Trichlorofluoromethane	*75-69-4*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,4-Trichlorobenzene	*120-82-1*	*70*	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,2,4-Trimethylbenzene	*95-63-6*	*5.6*	NA			ND		5	ND		5	ND		5	ND		5	NA			ND		5	ND		5	ND		5	ND		5	ND		5	NA			ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
1,3,5-Trimethylbenzene	*108-67-8*	*6*	NA			ND		5	ND		5	ND		5	ND		5	NA			ND		5	ND		5	ND		5	ND		5	ND		5	NA			ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Vinyl Chloride	*75-01-4*	*2*	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1
m,p-Xylene	*179601-*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
o-Xylene	*95-47-6*	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5
Xylenes (total)	*1330-20-7*	*10,000*	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10
Diesel Range Organics (DRO)	*68476-30-*	*47*	ND		*200*	ND		*210*	ND		*200*	ND		*210*	NA		*NA*	ND		*200*	ND		*200*	ND		*230*	ND		*240*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*220*	ND		*280*	ND		*210*	ND		*200*
Gasoline Range Organics (GRO)	*8006-61-9*	*47*	ND		*200*	ND		*200*	**460**		*200*	ND		*200*	NA		*NA*	ND		*200*	ND		*200*	**210**		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*	ND		*200*

Values are reported in micrograms per liter (µg/L)
GWQS: MD Groundwater Quality Standard-Type I Aquifers
Bold indicates concentrations above the MD GWQS
Values in italics indicate LLQ above applicable criterion.
ND = Not Detected above LLQ
NA = Not Analyzed
LLQ = Lowest Level of Quantitation
LLQ reported in parenthesis
NOTE: MW-5 was converted to a recovery well on
May 16,2019 and changed to RW-5

APPENDIX D
Groundwater Analytical Data Summary - Monitoring Wells
April 2018 - April 2020
Colonial Pipeline Company - Bel Air Pump Station

Sample No.:			MW-10												MW-11												MW-12						MW-13								
Date Sampled:			4/2/2019			7/9/2019			10/9/2019			1/7/2020			4/29/2020			4/2/2019			7/9/2019			10/9/2019			1/7/2020			4/29/2020			1/6/2020			1/23/2020			4/30/2020			1/6/2020			1/23/2020			4/30/2020			4/30/2020		
Lab Sample ID:			19040216-06			19070908-07			19100908-04			20010706-08			20043003-03			19040216-07			19070908-08			19100908-06			20010706-07			20043003-04			20010707-02			20012301-03			20043003-15			20010706			20012301-02			20043003-14			20043003-14		
Lab:			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber			Caliber		
Parameter (µg/L)	CAS No.	MD GWQS	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ	Result	Q	LLQ
Acetone	67-64-1	550	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		250	ND		250	ND		50	59		25	ND		25	ND		25	ND		25
Benzene	71-43-2	5	ND		1	ND		1	ND		1	ND		1	ND		1	**100**		1	ND		1	2		1	4		1	ND		1	**6,600**		10	**4,100**		10	**900**		2	**530**		1	**330**		1	**78**		1	**81**		1
Bromodichloromethane	75-27-4	80	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Bromoform	75-25-2	80	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Bromomethane	74-83-9	0.85	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
2-Butanone (MEK)	78-93-3	700	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		250	ND		250	ND		50	ND		25	ND		25	ND		25	ND		25
Carbon Disulfide	75-15-0	100	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Carbon tetrachloride	56-23-5	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Chlorobenzene	108-90-7	100	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Chloroethane	75-00-3	3.6	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Chloroform	67-66-3	80	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Chloromethane	74-87-3	19	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
cis-1,2-Dichloroethene	156-59-2	70	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
cis-1,3-Dichloropropene	10061-01-	0.44	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Cyclohexane	110-82-7	--	42		5	13		5	16		5	ND		5	ND		5	53		5	13		5	ND		5	25		5	16		5	200		50	100		50	89		10	37		5	23		5	6		5	6		5
1,2-Dibromo-3-chloropropane	96-12-8	0.2	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Dibromochloromethane	124-48-1	80	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,2-Dibromoethane	106-93-4	0.05	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,2-Dichlorobenzene	95-50-1	600	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,3-Dichlorobenzene	541-73-1	1.8	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,4-Dichlorobenzene	106-46-7	75	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Dichlorodifluoromethane	75-71-8	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethane	75-34-3	90	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,2-Dichloroethane	107-06-2	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,1-Dichloroethene	75-35-4	7	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,2-Dichloropropane	78-87-5	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,3-Dichloropropene (total)	542-75-6	--	NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA			NA		
Ethylbenzene	100-41-4	700	18		1	ND		1	ND		1	ND		1	ND		1	33		33	ND		1	ND		1	ND		1	ND		1	ND		10	ND		10	ND		2	ND		1	ND		1	ND		1	ND		1
2-Hexanone	591-78-6	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		250	ND		250	ND		50	ND		5	ND		5	ND		5	ND		5
Diisopropyl ether (DIPE)	108-20-3	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		50	1500		250	270		50	140		25	85		25	26		25	26		25
Isopropylbenzene	98-82-8	66	**16**		5	6		5	ND		5	ND		5	ND		5	12		5	ND		5	ND		5	8		5	10		5	63		50	ND		50	53		10	8		5	6		5	ND		5	ND		5
Methyl Acetate	79-20-9	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Methyl Tert Butyl Ether (MTBE)	1634-04-4	20	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	**330**		50	**250**		50	ND		10	ND		5	ND		5	ND		5	ND		5
4-methyl-2-pentanone (MIBK)	108-10-1	630	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		250	ND		250	ND		50	ND		25	ND		25	ND		25	ND		25
Methylcyclohexane	108-87-2	--	62		5	33		5	15		5	8		5	8		5	45		5	16		5	5		5	18		5	ND		5	120		50	68		50	70		10	30		5	21		5	6		5	6		5
Methylene chloride	75-09-2	5	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		10	ND		100	ND		100	ND		20	ND		10	ND		10	ND		10	ND		10
Naphthalene	90-20-3	0.65	**19**		10	ND		10	ND		10	ND		10	ND		10	**44**		10	ND		10	ND		10	**18**		10	**18**		10	**140**		100	**190**		100	**150**		20	**31**		10	**33**		10	**13**		10	**17**		10
Styrene	100-42-5	100	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
tert-Amyl Alcohol (TAA)	75-85-4	--	ND		25	ND		25	ND		25	ND		25	ND		25	370		25	ND		25	ND		25	ND		25	ND		25	ND		250	ND		250	940		50	180		25	ND		25	ND		25	ND		25
tert-Amyl Ethyl Ether (TAEE)	919-94-8	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		250	ND		250	ND		50	ND		25	ND		25	ND		25	ND		25
tert-Amyl Methyl Ether	994-05-8	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		250	ND		250	ND		50	ND		25	ND		25	ND		25	ND		25
tert-Butyl Alcohol	75-65-0	--	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		25	ND		250	ND		250	ND		50	ND		25	ND		25	ND		25	ND		25
tert-Butyl Ethyl Ether (ETBE)	637-92-3	--	NA			ND		25	ND		25	ND		25	ND		25	NA			ND		25	ND		25	ND		25	ND		25	ND		250	ND		250	ND		50	ND		25	ND		25	ND		25	ND		25
1,1,2,2-Tetrachloroethane	79-34-5	0.053	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Tetrachloroethene	127-18-4	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Toluene	108-88-3	1,000	3		1	3		1	ND		1	ND		1	3		1	390		1	5		1	6		1	17		1	4		1	**2,300**		10	**1,200**		10	67		2	4		1	ND		1	ND		1	ND		1
trans-1,2-Dichloroethene	156-60-5	100	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
trans-1,3-Dichloropropene	10061-02-	0.44	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Freon 113	76-13-1	--	NA			ND		5	ND		5	ND		5	ND		5	NA			ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,1,1-Trichloroethane	71-55-6	200	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,1,2-Trichloroethane	79-00-5	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Trichloroethene	79-01-6	5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
Trichlorofluoromethane	75-69-4	--	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,2,4-Trichlorobenzene	120-82-1	70	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		5	ND		50	ND		50	ND		10	ND		5	ND		5	ND		5	ND		5
1,2,4-Trimethylbenzene	95-63-6	5.6	NA			**110**		5	**10**		5	**16**		5	**16**		5	NA			**36**		5	ND		5	**12**		5	ND		5	**1000**		50	**680**		50	**320**		10	**19**		5	**12**		5	ND		5	**6**		5
1,3,5-Trimethylbenzene	108-67-8	6	NA			**42**		5	ND		5	**24**		5	**24**		5	NA			**15**		5	ND		5	ND		5	ND		5	**300**		50	**170**		50	**26**		10	ND		5	ND		5	ND		5	ND		5
Vinyl Chloride	75-01-4	2	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		1	ND		10	ND		10	ND		2	ND		1	ND		1	ND		1	ND		1
m,p-Xylene	179601-	--	190		5	37		5	11		5	ND		5	ND		5	440		5	59		5	ND		5	ND		5	ND		5	2900		50	1500		50	180		10	ND		5	ND		5	ND		5	ND		5
o-Xylene	95-47-6	--	60		5	12		5	9		5	ND		5	ND		5	210		5	24		5	10		5	35		5	6		5	1600		50	1000		50	170		10	22		5	15		5	6		5	7		5
Xylenes (total)	1330-20-7	10,000	250		10	49		10	20		10	ND		10	ND		10	650		10	83		10	10		10	ND		10	6		10	4500		10	2500		50	350		20	ND		5	ND		5	6		5	7		5
Diesel Range Organics (DRO)	68476-30-	47	**850**		200	**300**		200	ND		200	**570**		200	**530**		200	**730**		200	ND		200	ND		200	**340**		200	**310**		200	**5100**		220	NA		NA	**1800**		200	**410**		200	NA		NA	**380**		200	**270**		200
Gasoline Range Organics (GRO)	8006-61-9	47	**3,800**		200	**1800**		200	**830**		200	**270**		200	ND		200	**3,000**		200	**1400**		200	**1100**		200	**1600**		200	**1200**		200	**16000**		200	NA		NA	**6700**		1000	**1700**		200	NA		NA	**540**		200	**700**		200

Values are reported in micrograms per liter (µg/L)
GWQS: MD Groundwater Quality Standard-Type I Aquifers
Bold indicates concentrations above the MD GWQS
Values in italics indicate LLQ above applicable criterion.
ND = Not Detected above LLQ
NA = Not Analyzed
LLQ = Lowest Level of Quantitation
LLQ reported in parenthesis
NOTE: MW-5 was converted to a recovery well on May 16,2019 and changed to RW-5

APPENDIX E

Laboratory Analytical Reports – Monitoring Wells

CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 10:15
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-7 **Matrix: Water** **Lab ID: 20043003-01**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 18:02	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Benzene	**5**	ug/L	1	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Toluene	**7**	ug/L	1	EPA 8260B	05/04/20	05/04/20 18:02	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 18:02	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 10:15
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-7 **Matrix: Water** **Lab ID: 20043003-01**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:02	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:02	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:02	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:02	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:02	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 20:20	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 17:38	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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CALIBER ANALYTICAL SERVICES

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929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 11:15
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-10 **Matrix: Water** **Lab ID: 20043003-02**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 18:33	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Toluene	**3**	ug/L	1	EPA 8260B	05/04/20	05/04/20 18:33	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 18:33	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 11:15
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-10 **Matrix: Water** **Lab ID: 20043003-02**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:33	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:33	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:33	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:33	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 18:33	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	**0.53**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 20:20	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 18:06	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 12:15
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-11 **Matrix: Water** **Lab ID: 20043003-03**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 19:03	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Cyclohexane	**16**	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Toluene	**4**	ug/L	1	EPA 8260B	05/04/20	05/04/20 19:03	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 19:03	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
o-Xylene	**6**	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH

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Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 12:15
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-11 **Matrix: Water** **Lab ID: 20043003-03**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	**10**	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Naphthalene	**18**	ug/L	10	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:03	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:03	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:03	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:03	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:03	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	**0.31**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 21:01	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	**1.2**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 18:34	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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Woodbine, MD 21797

Date Sampled: 04/29/20 13:15
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-4 **Matrix: Water** **Lab ID: 20043003-04**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 19:33	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 19:33	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 19:33	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH

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Date Sampled: 04/29/20 13:15
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-4 **Matrix: Water** **Lab ID: 20043003-04**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:33	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:33	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:33	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:33	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 19:33	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	**0.24**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 21:01	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 19:03	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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Date Sampled: 04/29/20 14:30
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-2 **Matrix: Water** **Lab ID: 20043003-05**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 20:03	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Benzene	**8**	ug/L	1	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 20:03	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 20:03	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH

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Date Sampled: 04/29/20 14:30
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-2 **Matrix: Water** **Lab ID: 20043003-05**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	**6**	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:03	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Diisopropyl ether (DIPE)	**32**	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:03	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:03	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:03	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:03	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	**0.37**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 21:43	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	**0.27**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 19:31	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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Date Sampled: 04/29/20 15:35
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-8 **Matrix: Water** **Lab ID: 20043003-06**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 20:33	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 20:33	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 20:33	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 15:35
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-8 **Matrix: Water** **Lab ID: 20043003-06**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:33	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:33	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:33	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:33	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 20:33	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 21:43	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 19:59	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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Woodbine, MD 21797

Date Sampled: 04/29/20 14:35
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: DUP-2 **Matrix: Water** **Lab ID: 20043003-07**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 21:03	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Benzene	**7**	ug/L	1	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 21:03	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 21:03	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH

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929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 14:35
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: DUP-2 **Matrix: Water** **Lab ID: 20043003-07**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	**5**	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:03	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Diisopropyl ether (DIPE)	**32**	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:03	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:03	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:03	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:03	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	**0.41**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 22:24	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	**0.28**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 20:27	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

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929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 13:30
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: EB-001 **Matrix: Water** **Lab ID: 20043003-08**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 21:34	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 21:34	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 21:34	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH

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Certificate of Analysis

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Date Sampled: 04/29/20 13:30
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: EB-001 **Matrix: Water** **Lab ID: 20043003-08**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:34	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:34	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:34	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:34	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:34	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 21:34	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 14:50
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-8D **Matrix: Water** **Lab ID: 20043003-09**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 22:04	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 22:04	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 22:04	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 14:50
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-8D **Matrix: Water** **Lab ID: 20043003-09**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:04	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:04	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:04	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:04	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:04	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23653
Diesel Range Organics	ND	mg/L	0.2	EPA 8015C	05/13/20	05/13/20 18:59	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23651
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	05/13/20	05/13/20 21:46	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 16:05
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-9 **Matrix: Water** **Lab ID: 20043003-10**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 22:34	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 22:34	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 22:34	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/29/20 16:05
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-9 **Matrix: Water** **Lab ID: 20043003-10**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:34	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:34	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:34	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:34	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 22:34	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 22:24	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 20:55	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 8:15
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-1 **Matrix: Water** **Lab ID: 20043003-11**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 23:04	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 23:04	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/04/20 23:04	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH

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Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 8:15
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-1 **Matrix: Water** **Lab ID: 20043003-11**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 23:04	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 23:04	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 23:04	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 23:04	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/04/20 23:04	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 23:05	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 21:23	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 9:35
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-3 **Matrix: Water** **Lab ID: 20043003-12**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 0:04	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 0:04	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 0:04	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH

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929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 9:35
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-3 **Matrix: Water** **Lab ID: 20043003-12**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:04	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:04	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:04	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:04	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:04	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 23:05	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 21:52	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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Certificate of Analysis

Colonial Pipeline Co.
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Date Sampled: 04/30/20 8:25
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-6 **Matrix: Water** **Lab ID: 20043003-13**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 0:34	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 0:34	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 0:34	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH

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Date Sampled: 04/30/20 8:25
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-6 **Matrix: Water** **Lab ID: 20043003-13**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:34	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:34	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:34	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:34	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 0:34	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 23:46	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	ND	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 22:20	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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Woodbine, MD 21797

Date Sampled: 04/30/20 9:30
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-13 **Matrix: Water** **Lab ID: 20043003-14**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:05	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Cyclohexane	**6**	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Benzene	**78**	ug/L	1	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Methylcyclohexane	**6**	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 1:05	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 1:05	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
o-Xylene	**6**	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 9:30
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-13 **Matrix: Water** **Lab ID: 20043003-14**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Naphthalene	**13**	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 1:05	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Diisopropyl ether (DIPE)	**26**	ug/L	25	EPA 8260B	05/04/20	05/05/20 1:05	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 1:05	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 1:05	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 1:05	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	**0.28**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 23:46	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	**0.54**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 22:48	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 10:25
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-12 **Matrix: Water** **Lab ID: 20043003-15**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Chloromethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Vinyl chloride	ND	ug/L	2	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Bromomethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Chloroethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Trichlorofluoromethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,1-Dichloroethene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Acetone	ND	ug/L	50	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Carbon disulfide	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Methyl acetate	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Methylene chloride	ND	ug/L	20	EPA 8260B	05/04/20	05/05/20 1:35	GFH
trans-1,2-Dichloroethene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,1-Dichloroethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
cis-1,2-Dichloroethene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
2-Butanone (MEK)	ND	ug/L	50	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Chloroform	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,1,1-Trichloroethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Cyclohexane	**89**	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Carbon tetrachloride	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Benzene	**900**	ug/L	2	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Trichloroethene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Methylcyclohexane	**70**	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,2-Dichloropropane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Bromodichloromethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
cis-1,3-Dichloropropene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	50	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Toluene	**67**	ug/L	2	EPA 8260B	05/04/20	05/05/20 1:35	GFH
trans-1,3-Dichloropropene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,1,2-Trichloroethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Tetrachloroethene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
2-Hexanone (MBK)	ND	ug/L	50	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Dibromochloromethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Chlorobenzene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Ethylbenzene	ND	ug/L	2	EPA 8260B	05/04/20	05/05/20 1:35	GFH
m&p-Xylene	**180**	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
o-Xylene	**170**	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Styrene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Bromoform	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH

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Certificate of Analysis

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929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 10:25
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: MW-12 **Matrix: Water** **Lab ID: 20043003-15**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	**53**	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,3,5-Trimethylbenzene	**26**	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,2,4-Trimethylbenzene	**320**	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,3-Dichlorobenzene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,4-Dichlorobenzene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,2-Dichlorobenzene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
1,2,4-Trichlorobenzene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Naphthalene	**150**	ug/L	20	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	50	EPA 8260B	05/04/20	05/05/20 1:35	GFH
tert-Butanol (TBA)	ND	ug/L	50	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Diisopropyl ether (DIPE)	**270**	ug/L	50	EPA 8260B	05/04/20	05/05/20 1:35	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	50	EPA 8260B	05/04/20	05/05/20 1:35	GFH
tert-Amyl alcohol (TAA)	**940**	ug/L	50	EPA 8260B	05/04/20	05/05/20 1:35	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	50	EPA 8260B	05/04/20	05/05/20 1:35	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	**1.8**	mg/L	0.2	EPA 8015C	05/01/20	05/02/20 0:27	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	**6.7**	mg/L	1	EPA 8015C	05/01/20	05/01/20 23:16	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 9:40
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: DUP-13 **Matrix: Water** **Lab ID: 20043003-16**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 2:05	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Cyclohexane	**6**	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Benzene	**81**	ug/L	1	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Methylcyclohexane	**6**	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 2:05	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 2:05	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
o-Xylene	**7**	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

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929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 9:40
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: DUP-13 **Matrix: Water** **Lab ID: 20043003-16**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,2,4-Trimethylbenzene	**6**	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Naphthalene	**17**	ug/L	10	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:05	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Diisopropyl ether (DIPE)	**26**	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:05	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:05	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:05	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:05	GFH
Total Petroleum Hydrocarbons - (C10-C28) DRO						Batch:	23598
Diesel Range Organics	**0.27**	mg/L	0.2	EPA 8015C	05/01/20	05/02/20 0:27	DBS
Total Petroleum Hydrocarbons - (C6-C10) GRO						Batch:	23600
Gasoline Range Organics	**0.70**	mg/L	0.2	EPA 8015C	05/01/20	05/01/20 23:46	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 10:35
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: EB-002 **Matrix: Water** **Lab ID: 20043003-17**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 2:35	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 2:35	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 2:35	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20 10:35
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: EB-002 **Matrix: Water** **Lab ID: 20043003-17**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:35	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:35	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:35	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:35	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:35	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 2:35	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: Trip Blank **Matrix: Water** **Lab ID: 20043003-18**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Dichlorodifluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Chloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Vinyl chloride	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Bromomethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Chloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Trichlorofluoromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,1-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,1,2-Trichlorotrifluoroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Acetone	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Carbon disulfide	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Methyl acetate	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Methylene chloride	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 3:06	GFH
trans-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,1-Dichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
cis-1,2-Dichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
2-Butanone (MEK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Chloroform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,1,1-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Cyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Carbon tetrachloride	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Benzene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Trichloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Methylcyclohexane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,2-Dichloropropane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Bromodichloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
cis-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Toluene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 3:06	GFH
trans-1,3-Dichloropropene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,1,2-Trichloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Tetrachloroethene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
2-Hexanone (MBK)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Dibromochloromethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Chlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Ethylbenzene	ND	ug/L	1	EPA 8260B	05/04/20	05/05/20 3:06	GFH
m&p-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
o-Xylene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Styrene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Bromoform	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Sampled: 04/30/20
Date Received: 04/30/20 11:55
Date Issued: 05/14/20

Project: Bel Air Station
Site Location: Fallston, MD

SDG Number: 20043003

Field Sample ID: Trip Blank **Matrix: Water** **Lab ID: 20043003-18**

	Result	Unit	LLQ	Method	Prepared	Analyzed	Init.
Target Compound List - VOLATILES						Batch:	23604
Isopropylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,3,5-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,2,4-Trimethylbenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,3-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,4-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,2-Dichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
1,2,4-Trichlorobenzene	ND	ug/L	5	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Naphthalene	ND	ug/L	10	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 3:06	GFH
tert-Butanol (TBA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 3:06	GFH
Diisopropyl ether (DIPE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 3:06	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 3:06	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 3:06	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	25	EPA 8260B	05/04/20	05/05/20 3:06	GFH

Notes/Qualifiers:
LLQ- Lowest Level of Quantitation
ND - Not Detected at a concentration greater than or equal to the LLQ.

Approved by: Matt Cohen
QC Chemist

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CALIBER ANALYTICAL SERVICES

8851 Orchard Tree Lane Towson, MD 21286
Phone: 410.825.1151
Fax: 410.825.2126
www.caslabs.net

Chain of Custody Record

Customer:	Robert Shenk/Colonial Pipeline
Contact/Report to:	RShenK@colpipe.com
Phone:	610-506-1478
Fax:	

E-mail address:	RShenK@colpipe.com
Project Name:	Belair Quarterly Sampling
Project Location:	Fallston, MD
Project Number:	999980

SDG Number:	20043003
Sampled by:	James Locurto
PO Number:	

Analysis Requested

Lab Number	Field Sample ID	Date Sampled	Time Sampled	No. of Bottles	Matrix *	VOC with Naphthalene and oxygenated fuels	FPH-GRO	FPH-DRO								No. of Encores (EPA 5035)	Sampling Remarks/ Comments
Preservative:					Field		HCl	ICE	ICE								Date/Time:
					Lab												
	MW-7	04/29/2020	10:15	4	GW	X	X	X									
	MW-10	04/29/2020	11:15	4	GW	X	X	X									
	MW-11	04/29/2020	12:15	4	GW	X	X	X									
	MW-4	04/29/2020	13:15	4	GW	X	X	X									
	MW-2	04/29/2020	14:30	4	GW	X	X	X									
	MW-8	04/29/2020	15:35	4	GW	X	X	X									
	DUP-2	04/29/2020	14:35	4	GW	X	X	X									
	Equipment Blank-001	04/29/2020	13:30	3	GW	X											

Relinquished by:	[signature]	Date/Time:	4/30/2011 1155	Deliverables:	Receipt Temp (°C): 1.9	Turnaround Time: STD
Received by:	[signature]	Date/Time:	4/30/20 / 1155	I II III CLP EDD	On Ice N/A Same Day	STD Next Day 2-Day Other____
Relinquished by:		Date/Time:	/	Custody Seals:	Comments/Special Instructions:	
Received by:		Date/Time:	/	Sample Cooler		
Relinquished by:		Date/Time:	/	Delivered by client		
Received by:		Date/Time:	/	CAS Courier		

* DW = Drinking Water | GW = Groundwater | SW = Surface Water | W = Water | WW = Wastewater | S = Soil | SED = Sediment | SL = Sludge | O = Oil / Fuel

CALIBER ANALYTICAL SERVICES

8851 Orchard Tree Lane Towson, MD 21286
Phone: 410.825.1151
Fax: 410.825.2126
www.caslabs.net

Chain of Custody Record

Customer:	Colonial Pipeline
Contact/Report to:	Rob Shenk
Phone:	
Fax:	

E-mail address:	rshenk@colpipe.com
Project Name:	Bel Air Station
Project Location:	Fallston MD
Project Number:	

SDG Number:	20043003
Sampled by:	D Kodla
PO Number:	

Analysis Requested

Lab Number	Field Sample ID	Date Sampled	Time Sampled	No. of Bottles	Matrix *	VOC 8260	Fuel oxygenates	Naphthalene	DRO	GRO						No. of Encores (EPA 5035)	Sampling Remarks/ Comments
	MW-8D	4.29.20	1450	4	GW	X	X	X	X	X							
	MW-9	4.29.20	1605	4	GW	X	X	X	X	X							
	MW-1	4.30.20	0815	4	GW	X	X	X	X	X							
	MW-3	4.30.20	0935	4	GW	X	X	X	X	X							

Preservative: Field / Lab

Date/Time:

Relinquished by:		Date/Time:	4.30.20 1155
Received by:		Date/Time:	4/30/20 / 1155
Relinquished by:		Date/Time:	/
Received by:		Date/Time:	/
Relinquished by:		Date/Time:	/
Received by:		Date/Time:	/

Deliverables: I II III CLP EDD

Receipt Temp (°C): 1.9 On Ice N/A Same Day

Turnaround Time: STD Next Day 2-Day Other____

Custody Seals: Sample Cooler

Delivered by client / CAS Courier

Comments/Special Instructions:

* DW = Drinking Water | GW = Groundwater | SW = Surface Water | W = Water | WW = Wastewater | S = Soil | SED = Sediment | SL = Sludge | O = Oil / Fuel

CALIBER ANALYTICAL SERVICES

8851 Orchard Tree Lane Towson, MD 21286
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Chain of Custody Record

Customer:	Robert Shenk/Colonial Pipeline
Contact/Report to:	RShenk@Colpipe.com
Phone:	610-506-1478
Fax:	

E-mail address:	RShenk@Colpipe.com
Project Name:	Belair Quarterly Sampling
Project Location:	Fallston, MD
Project Number:	9749.80

SDG Number:	20043003
Sampled by:	James Lacuite
PO Number:	

Page ~~1~~ of ~~2~~ 3 of 3

Analysis Requested

Lab Number	Field Sample ID	Date Sampled	Time Sampled	No. of Bottles	Matrix *	VOC with Naphthalene + Oxygenated Fuels	TPH-DRO	TPH-GRO								No. of Encores (EPA 5035)	Sampling Remarks/ Comments
Preservative:					Field		HCl	ICE	ICE								Date/Time:
					Lab												
	MW-6	04/30/2020	8:25	4	GW	X	X	X									with naphthalene + oxygenated fuel
	MW-13	04/30/2020	9:30	4	GW	X	X	X									
	MW-12	04/30/2020	10:25	4	GW	X	X	X									
	DUP-13	04/30/2020	9:40	4	GW	X	X	X									
	Equipment Blank-002	04/30/2020	10:35	3	GW	X											
	Trip Blank	04/30/2020	—	2	W	X											

Relinquished by:	[signature]	Date/Time:	4-30-20 1155	Deliverables:	Receipt Temp (°C):_____	Turnaround Time: STD
Received by:	[signature]	Date/Time:	4/30/20 / 1155	I II III CLP EDD	On Ice N/A Same Day	STD Next Day 2-Day Other_____
Relinquished by:		Date/Time:	/	Custody Seals:	Comments/Special Instructions:	
Received by:		Date/Time:	/	Sample Cooler		
Relinquished by:		Date/Time:	/	Delivered by client		
Received by:		Date/Time:	/	CAS Courier		

* DW = Drinking Water | GW = Groundwater | SW = Surface Water | W = Water | WW = Wastewater | S = Soil | SED = Sediment | SL = Sludge | O = Oil / Fuel

CALIBER ANALYTICAL SERVICES

VOLATILES

SYSTEM MONITORING COMPOUND RECOVERY (SURROGATES)

METHOD: EPA 8260B **LAB CODE:** SURR

MATRIX: WATER **BATCH NUMBER:** 23604

Sample ID	Date/Time Analyzed	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
MW-7 / 20043003-01	5/4/2020 6:02:00 PM	101	113	102
MW-10 / 20043003-02	5/4/2020 6:33:00 PM	101	114	100
MW-11 / 20043003-03	5/4/2020 7:03:00 PM	101	111	101
MW-4 / 20043003-04	5/4/2020 7:33:00 PM	101	115	100
MW-2 / 20043003-05	5/4/2020 8:03:00 PM	102	115	100
MW-8 / 20043003-06	5/4/2020 8:33:00 PM	101	115	102
DUP-2 / 20043003-07	5/4/2020 9:03:00 PM	102	115	101
EB-001 / 20043003-08	5/4/2020 9:34:00 PM	102	113	101
MW-8D / 20043003-09	5/4/2020 10:04:00 PM	101	116	100
MW-9 / 20043003-10	5/4/2020 10:34:00 PM	103	112	99
MW-1 / 20043003-11	5/4/2020 11:04:00 PM	102	114	101
MW-3 / 20043003-12	5/5/2020 12:04:00 AM	101	112	100
MW-6 / 20043003-13	5/5/2020 12:34:00 AM	102	110	99
MW-13 / 20043003-14	5/5/2020 1:05:00 AM	99	114	100
MW-12 / 20043003-15	5/5/2020 1:35:00 AM	102	118	101
DUP-13 / 20043003-16	5/5/2020 2:05:00 AM	103	111	99
EB-002 / 20043003-17	5/5/2020 2:35:00 AM	102	113	99
Trip Blank / 20043003-18	5/5/2020 3:06:00 AM	101	109	100
	Upper Limit	115	120	115
	Lower Limit	85	80	85

* - Indicates values outside of QC control limits.

CALIBER ANALYTICAL SERVICES

VOLATILES
LABORATORY CONTROL SAMPLE SUMMARY

METHOD: EPA 8260B
BATCH NUMBER: 23604
MATRIX: WATER
INSTRUMENT: VOC1

SAMPLE ID: LCS
DATE ANALYZED: 5/4/2020 1:57:00 PM
LAB FILE IDs: 02.D

SAMPLE SPIKE COMPOUND	SPIKE ADDED (ppb)	SAMPLE CONC (ppb)	SPIKE CONC (ppb)	SPIKE REC (%)	QC LIMITS (%)
1,1-DICHLOROETHENE	25	NA	22.3	89	63 - 142
BENZENE	25	NA	22.5	90	69 - 133
CARBON TETRACHLORIDE	25	NA	22.6	90	74 - 135
CHLOROBENZENE	25	NA	27.5	110	65 - 118
CHLOROFORM	25	NA	22.1	89	60 - 144
M&P-XYLENE	50	NA	61.4	123	62 - 129
METHYL T-BUTYL ETHER (MTBE)	25	NA	22.7	91	77 - 143
TETRACHLOROETHENE	25	NA	28.5	114	60 - 121
TOLUENE	25	NA	24.9	100	67 - 131
TRICHLOROETHENE	25	NA	23.0	92	60 - 121
VINYL CHLORIDE	25	NA	26.4	106	69 - 129

* - Indicates values outside of QC control limits.

Calculations:

$$\%\text{Recovery} = \left[\frac{(\textit{Spike Conc.-Sample Conc.})}{\textit{Spike Added}}\right] * 100$$

$$\text{Relative Percent Difference (RPD)} = \left|\frac{(\textit{Spike Dup Conc.-Spike Conc.})}{\left(\frac{(\textit{Spike Dup Conc.} + \textit{Spike Conc.})}{2}\right)}\right| * 100$$

CALIBER ANALYTICAL SERVICES

METHOD BLANK RESULTS

Analysis: Volatiles **Batch ID:** 23604

Matrix: Water **Batch Date:** 5/4/2020

	Result	Unit	Method	LLQ	Date / Time Analyzed
Dichlorodifluoromethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Chloromethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
VINYL CHLORIDE	ND	ug/L	EPA 8260B	1.0	05/04/20 14:28
Bromomethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Chloroethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Trichlorofluoromethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,1-DICHLOROETHENE	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,1,2-Trichlorotrifluoroethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Acetone	ND	ug/L	EPA 8260B	25.0	05/04/20 14:28
Carbon disulfide	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Methyl acetate	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Methylene chloride	ND	ug/L	EPA 8260B	10.0	05/04/20 14:28
trans-1,2-Dichloroethene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Methyl t-butyl ether (MTBE)	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,1-Dichloroethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
cis-1,2-Dichloroethene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
2-Butanone (MEK)	ND	ug/L	EPA 8260B	25.0	05/04/20 14:28
CHLOROFORM	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,1,1-Trichloroethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Cyclohexane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Carbon tetrachloride	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Benzene	ND	ug/L	EPA 8260B	1.0	05/04/20 14:28
1,2-Dichloroethane (EDC)	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Trichloroethene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Methylcyclohexane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,2-DICHLOROPROPANE	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Bromodichloromethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
cis-1,3-Dichloropropene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
4-Methyl-2-pentanone (MIBK)	ND	ug/L	EPA 8260B	25.0	05/04/20 14:28
TOLUENE	ND	ug/L	EPA 8260B	1.0	05/04/20 14:28
trans-1,3-Dichloropropene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,1,2-Trichloroethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Tetrachloroethene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
2-Hexanone (MBK)	ND	ug/L	EPA 8260B	25.0	05/04/20 14:28
Dibromochloromethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,2-Dibromoethane (EDB)	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
CHLOROBENZENE	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28

CALIBER ANALYTICAL SERVICES

METHOD BLANK RESULTS

Analysis: **Volatiles** **Batch ID:** **23604**

Matrix: **Water** **Batch Date:** **5/4/2020**

	Result	Unit	Method	LLQ	Date / Time Analyzed
ETHYLBENZENE	ND	ug/L	EPA 8260B	1.0	05/04/20 14:28
m&p-Xylene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
o-Xylene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Styrene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Bromoform	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Isopropylbenzene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,1,2,2-Tetrachloroethane	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,3,5-Trimethylbenzene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,2,4-Trimethylbenzene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,3-Dichlorobenzene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,4-Dichlorobenzene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,2-Dichlorobenzene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
1,2,4-Trichlorobenzene	ND	ug/L	EPA 8260B	5.0	05/04/20 14:28
Naphthalene	ND	ug/L	EPA 8260B	10.0	05/04/20 14:28
Ethyl t-butyl ether (ETBE)	ND	ug/L	EPA 8260B	25.0	05/04/20 14:28
tert-Butanol (TBA)	ND	ug/L	EPA 8260B	25.0	05/04/20 14:28
Diisopropyl ether (DIPE)	ND	ug/L	EPA 8260B	25.0	05/04/20 14:28
tert-Amyl methyl ether (TAME)	ND	ug/L	EPA 8260B	25.0	05/04/20 14:28
tert-Amyl alcohol (TAA)	ND	ug/L	EPA 8260B	25.0	05/04/20 14:28
tert-Amyl ethyl ether (TAEE)	ND	ug/L	EPA 8260B	25.0	05/04/20 14:28

Notes/Comments:

LLQ - Lowest Level of Quantitation

ND - Not Detected at a concentration greater than or equal to the LLQ.

CALIBER ANALYTICAL SERVICES

GRO

SYSTEM MONITORING COMPOUND RECOVERY (SURROGATES)

METHOD:	**EPA 8015C**	**LAB CODE:**	**SURR**
MATRIX:	**WATER**	**BATCH NUMBER:**	**23600**

Sample ID	Date/Time Analyzed	TFT
MW-7 / 20043003-01	5/1/2020 5:38:00 PM	112
MW-10 / 20043003-02	5/1/2020 6:06:00 PM	109
MW-11 / 20043003-03	5/1/2020 6:34:00 PM	112
MW-4 / 20043003-04	5/1/2020 7:03:00 PM	96
MW-2 / 20043003-05	5/1/2020 7:31:00 PM	115
MW-8 / 20043003-06	5/1/2020 7:59:00 PM	117
DUP-2 / 20043003-07	5/1/2020 8:27:00 PM	114
MW-9 / 20043003-10	5/1/2020 8:55:00 PM	97
MW-1 / 20043003-11	5/1/2020 9:23:00 PM	116
MW-3 / 20043003-12	5/1/2020 9:52:00 PM	124*
MW-6 / 20043003-13	5/1/2020 10:20:00 PM	101
MW-13 / 20043003-14	5/1/2020 10:48:00 PM	99
MW-12 / 20043003-15	5/1/2020 11:16:00 PM	110
DUP-13 / 20043003-16	5/1/2020 11:46:00 PM	111

Upper Limit	124
Lower Limit	49

* - Indicates values outside of QC control limits due to a coeluting peak.

CALIBER ANALYTICAL SERVICES

GRO
LABORATORY CONTROL SAMPLE SUMMARY

METHOD: EPA 8015C
BATCH NUMBER: 23600
MATRIX: WATER
INSTRUMENT: VOC-PID/FID

SAMPLE ID: LCS
DATE ANALYZED: 5/1/2020 1:51:00 PM
LAB FILE IDs: 02.D

SAMPLE SPIKE COMPOUND	SPIKE ADDED (ppb)	SAMPLE CONC (ppb)	SPIKE CONC (ppb)	SPIKE REC (%)	QC LIMITS (%)
GASOLINE RANGE ORGANICS	5500	NA	4618.1	84	75 - 125

* - Indicates values outside of QC control limits.

Calculations:

$$\%\text{Recovery} = \left[\frac{(\text{Spike Conc.-Sample Conc.})}{\text{Spike Added}}\right] * 100$$

$$\text{Relative Percent Difference (RPD)} = \left|\frac{(\text{Spike Dup Conc.-Spike Conc.})}{\left(\frac{(\text{Spike Dup Conc.} + \text{Spike Conc.})}{2}\right)}\right| * 100$$

CALIBER ANALYTICAL SERVICES

METHOD BLANK RESULTS

Analysis: GRO | **Batch ID:** 23600

Matrix: Water | **Batch Date:** 5/1/2020

	Result	Unit	Method	LLQ	Date / Time Analyzed
Gasoline Range Organics	ND	mg/L	EPA 8015C	0.2	05/01/20 14:19

Notes/Comments:

LLQ - Lowest Level of Quantitation

ND - Not Detected at a concentration greater than or equal to the LLQ.

CALIBER ANALYTICAL SERVICES

DRO

SYSTEM MONITORING COMPOUND RECOVERY (SURROGATES)

METHOD:	**EPA 8015C**	**LAB CODE:**	**SURR**
MATRIX:	**WATER**	**BATCH NUMBER:**	**23598**

Sample ID	Date/Time Analyzed	o-Terphenyl
MW-7 / 20043003-01	5/1/2020 8:20:00 PM	90
MW-10 / 20043003-02	5/1/2020 8:20:00 PM	86
MW-11 / 20043003-03	5/1/2020 9:01:00 PM	81
MW-4 / 20043003-04	5/1/2020 9:01:00 PM	88
MW-2 / 20043003-05	5/1/2020 9:43:00 PM	78
MW-8 / 20043003-06	5/1/2020 9:43:00 PM	80
DUP-2 / 20043003-07	5/1/2020 10:24:00 PM	93
MW-9 / 20043003-10	5/1/2020 10:24:00 PM	87
MW-1 / 20043003-11	5/1/2020 11:05:00 PM	88
MW-3 / 20043003-12	5/1/2020 11:05:00 PM	82
MW-6 / 20043003-13	5/1/2020 11:46:00 PM	80
MW-13 / 20043003-14	5/1/2020 11:46:00 PM	86
MW-12 / 20043003-15	5/2/2020 12:27:00 AM	94
DUP-13 / 20043003-16	5/2/2020 12:27:00 AM	87

Upper Limit	130
Lower Limit	52

* - Indicates values outside of QC control limits.

CALIBER ANALYTICAL SERVICES

DRO
LABORATORY CONTROL SAMPLE SUMMARY

METHOD: EPA 8015C
BATCH NUMBER: 23598
MATRIX: WATER
INSTRUMENT: DRO1

SAMPLE ID: LCS
DATE ANALYZED: 5/1/2020 5:32:00 PM
LAB FILE IDs: 04.D

SAMPLE SPIKE COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONC (mg/L)	SPIKE CONC (mg/L)	SPIKE REC (%)	QC LIMITS (%)
DIESEL RANGE ORGANICS	510	NA	517.6	101	60 - 120

SAMPLE ID: LCSD
DATE ANALYZED: 5/2/2020 1:07:00 AM
LAB FILE IDs: 25.D

SAMPLE SPIKE COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONC (mg/L)	SPK DUP CONC (mg/L)	SPK DUP REC (%)	RPD (%)	QC RPD (%)	QC LIMITS (%)
DIESEL RANGE ORGANICS	510	NA	533.8	105	3.1	20	60 - 120

* - Indicates values outside of QC control limits.

Calculations:

$$\%\text{Recovery} = \left[\frac{(\text{Spike Conc.-Sample Conc.})}{\text{Spike Added}}\right] * 100$$

$$\text{Relative Percent Difference (RPD)} = \left|\frac{(\text{Spike Dup Conc.-Spike Conc.})}{\left(\frac{(\text{Spike Dup Conc.} + \text{Spike Conc.})}{2}\right)}\right| * 100$$

CALIBER ANALYTICAL SERVICES

METHOD BLANK RESULTS

Analysis: **DRO** **Batch ID:** **23598**

Matrix: **Water** **Batch Date:** **5/1/2020**

	Result	Unit	Method	LLQ	Date / Time Analyzed
Diesel Range Organics	ND	mg/L	EPA 8015C	0.2	05/01/20 17:32

Notes/Comments:

LLQ - Lowest Level of Quantitation

ND - Not Detected at a concentration greater than or equal to the LLQ.

CALIBER ANALYTICAL SERVICES

GRO

SYSTEM MONITORING COMPOUND RECOVERY (SURROGATES)

METHOD:	**EPA 8015C**	**LAB CODE:**	**SURR**
MATRIX:	**WATER**	**BATCH NUMBER:**	**23651**

Sample ID	Date/Time Analyzed	TFT
MW-8D / 20043003-09	5/13/2020 9:46:00 PM	123
	Upper Limit	124
	Lower Limit	49

* - Indicates values outside of QC control limits.

CALIBER ANALYTICAL SERVICES

GRO
LABORATORY CONTROL SAMPLE SUMMARY

METHOD: EPA 8015C
BATCH NUMBER: 23651
MATRIX: WATER
INSTRUMENT: VOC-PID/FID

SAMPLE ID: LCS
DATE ANALYZED: 5/13/2020 4:36:00 PM
LAB FILE IDs: 03.D

SAMPLE SPIKE COMPOUND	SPIKE ADDED (ppb)	SAMPLE CONC (ppb)	SPIKE CONC (ppb)	SPIKE REC (%)	QC LIMITS (%)
GASOLINE RANGE ORGANICS	5500	NA	5067.5	92	75 - 125

* - Indicates values outside of QC control limits.

Calculations:

$$\%\text{Recovery} = \left[\frac{(\text{Spike Conc.-Sample Conc.})}{\text{Spike Added}}\right] * 100$$

$$\text{Relative Percent Difference (RPD)} = \left|\frac{(\text{Spike Dup Conc.-Spike Conc.})}{\left(\frac{(\text{Spike Dup Conc.} + \text{Spike Conc.})}{2}\right)}\right| * 100$$

CALIBER ANALYTICAL SERVICES

METHOD BLANK RESULTS

Analysis: GRO | **Batch ID:** 23651

Matrix: Water | **Batch Date:** 5/13/2020

	Result	Unit	Method	LLQ	Date / Time Analyzed
Gasoline Range Organics	ND	mg/L	EPA 8015C	0.2	05/13/20 17:04

Notes/Comments:

LLQ - Lowest Level of Quantitation

ND - Not Detected at a concentration greater than or equal to the LLQ.

CALIBER ANALYTICAL SERVICES

DRO

SYSTEM MONITORING COMPOUND RECOVERY (SURROGATES)

METHOD:	**EPA 8015C**	**LAB CODE:**	**SURR**
MATRIX:	**WATER**	**BATCH NUMBER:**	**23653**

Sample ID	Date/Time Analyzed	o-Terphenyl
MW-8D / 20043003-09	5/13/2020 6:59:00 PM	81
	Upper Limit	130
	Lower Limit	52

* - Indicates values outside of QC control limits.

CALIBER ANALYTICAL SERVICES

DRO
LABORATORY CONTROL SAMPLE SUMMARY

METHOD: EPA 8015C
BATCH NUMBER: 23653
MATRIX: WATER
INSTRUMENT: DRO1

SAMPLE ID: LCS
DATE ANALYZED: 5/13/2020 6:14:00 PM
LAB FILE IDs: 04.D

SAMPLE SPIKE COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONC (mg/L)	SPIKE CONC (mg/L)	SPIKE REC (%)	QC LIMITS (%)
DIESEL RANGE ORGANICS	510	NA	525.9	103	60 - 120

SAMPLE ID: LCSD
DATE ANALYZED: 5/13/2020 6:59:00 PM
LAB FILE IDs: 06.D

SAMPLE SPIKE COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONC (mg/L)	SPK DUP CONC (mg/L)	SPK DUP REC (%)	RPD (%)	QC RPD (%)	QC LIMITS (%)
DIESEL RANGE ORGANICS	510	NA	485.8	95	7.9	20	60 - 120

* - Indicates values outside of QC control limits.

Calculations:

$$\%\text{Recovery} = \left[\frac{(\text{Spike Conc.-Sample Conc.})}{\text{Spike Added}}\right] * 100$$

$$\text{Relative Percent Difference (RPD)} = \left|\frac{(\text{Spike Dup Conc.-Spike Conc.})}{\left(\frac{(\text{Spike Dup Conc.} + \text{Spike Conc.})}{2}\right)}\right| * 100$$

CALIBER ANALYTICAL SERVICES

METHOD BLANK RESULTS

Analysis: DRO | **Batch ID:** 23653

Matrix: Water | **Batch Date:** 5/13/2020

	Result	Unit	Method	LLQ	Date / Time Analyzed
Diesel Range Organics	ND	mg/L	EPA 8015C	0.2	05/13/20 18:14

Notes/Comments:

LLQ - Lowest Level of Quantitation

ND - Not Detected at a concentration greater than or equal to the LLQ.

APPENDIX F

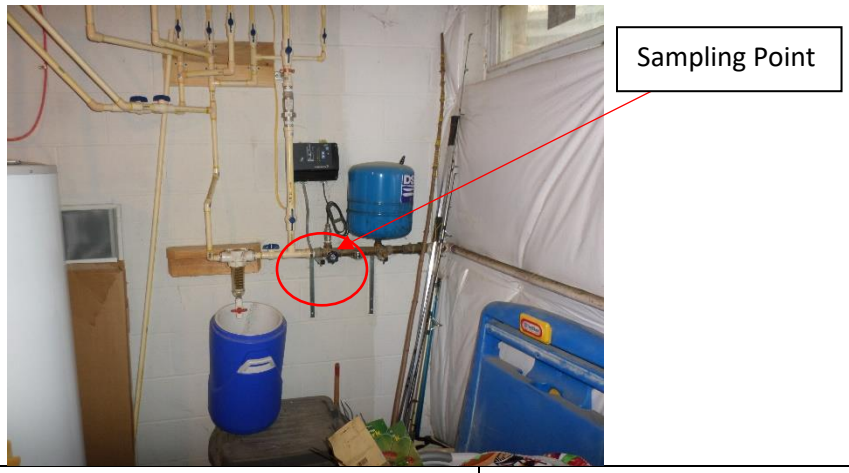
Residential Well Sampling Logs

TRC Residential Well Sampling Log	Project: Bel Air Station	Project Number: 299980
	Address of Residence: 2929 Charles St.	Sample ID: D. Kaminkow-01 FB-002
	Homeowner's Name: D. Kaminkow	Date: 4/30/2020
	Contact Number: 410-692-6554	Sample Time: 10:15 10:17
		Sampler's Name: Sandy Spreckley

Description of Sample Location:

Pressurized Tank at Point of Entry

Sketch of Sample Location



Tank Capacity (Gallons) ~10 Actual Purge Volume Prior to Sampling: Purge Time: 10 min	Well Used in Past 24 Hours? ~~(Y)~~ (N) Faucet Aerator Present? (Y) ~~(N)~~ Faucet Aerator removed Prior to sampling? (Y) ~~(N)~~

Laboratory Analysis

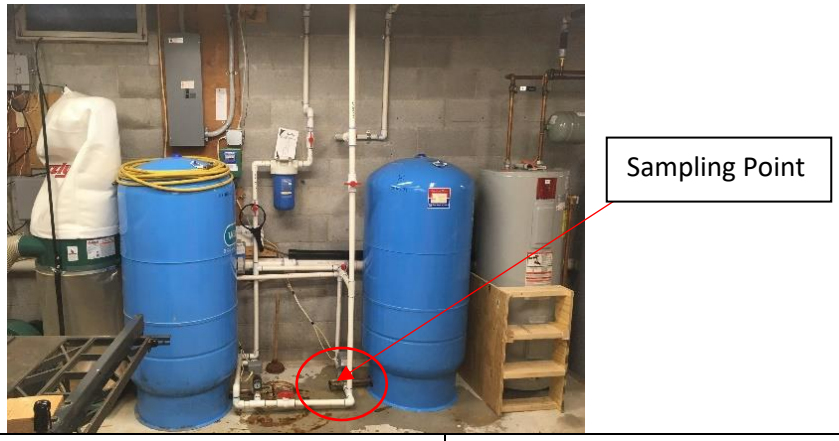
Analytical Parameter	Filtered? Y N	Preservation	# of Bottles
524.2 + Oxygenates + Naphthalene	N	HCl	5

TRC Residential Well Sampling Log	Project: Bel Air Station	Project Number: 299980
	Address of Residence: 2226 Rutledge Rd.	Sample ID: Parris-01
	Homeowner's Name: Parris	Date: 4/30/2020
	Contact Number: 410-692-5137	Sample Time: 9:35
		Sampler's Name: Sandy Spreckley

Description of Sample Location:

Pressurized Tank at Point of Entry (right tank)

Sketch of Sample Location



Tank Capacity (Gallons) ~ 80	Well Used in Past 24 Hours? ~~(Y)~~ (N)
Actual Purge Volume Prior to Sampling:	Faucet Aerator Present? (Y) ~~(N)~~
Purge Time: 10 min	Faucet Aerator removed Prior to sampling? (Y) ~~(N)~~

Laboratory Analysis

Analytical Parameter	Filtered? Y N	Preservation	# of Bottles
524.2 + Oxygenates + Naphthalene	N	HCl	5

TRC Residential Well Sampling Log	Project: Bel Air Station	Project Number: 299980
	Address of Residence: 2226 Rutledge Rd.	Sample ID: Parris-02 FB-001
	Homeowner's Name: Parris	Date: 4/30/2020
	Contact Number:	Sample Time: 9:37 9:40
		Sampler's Name: Sandy Spreckley

Description of Sample Location:

Pressurized Tank at Point of Entry (left tank)

Sketch of Sample Location

Tank Capacity (Gallons) ~ 80 Actual Purge Volume Prior to Sampling: Purge Time: 10 min	Well Used in Past 24 Hours? ~~(Y)~~ (N) Faucet Aerator Present? (Y) ~~(N)~~ Faucet Aerator removed Prior to sampling? (Y) ~~(N)~~

Laboratory Analysis

Analytical Parameter	Filtered? Y N	Preservation	# of Bottles
524.2 + Oxygenates + Naphthalene	N	HCl	3

APPENDIX G

Laboratory Analytical Results – Private Wells

CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: Parris-01 | **Date Sampled: 04/30/20 9:35** | **Lab ID: 20043004-01**

Volatile Organic Compounds Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Benzene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:25	GFH
Bromobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Bromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Bromodichloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Bromoform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Bromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
n-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
sec-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
tert-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Carbon tetrachloride	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:25	GFH
Chlorobenzene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 13:25	GFH
Chloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Chloroform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Chloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
2-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
4-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Dibromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Dibromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,2-Dichlorobenzene	ND	ug/L	0.5	600	EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,3-Dichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,4-Dichlorobenzene	ND	ug/L	0.5	75	EPA 524.2	05/05/20	05/05/20 13:25	GFH
Dichlorodifluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,1-Dichloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,1-Dichloroethene	ND	ug/L	0.5	7	EPA 524.2	05/05/20	05/05/20 13:25	GFH
cis-1,2-Dichloroethene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 13:25	GFH
trans-1,2-Dichloroethene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,2-Dichloropropane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,3-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
2,2-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,1-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
cis-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
trans-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Ethylbenzene	ND	ug/L	0.5	700	EPA 524.2	05/05/20	05/05/20 13:25	GFH
Isopropylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
p-Isopropyltoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Hexachlorobutadiene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Methylene chloride	ND	ug/L	1.5	5	EPA 524.2	05/05/20	05/05/20 13:25	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	0.5	* 20	EPA 524.2	05/05/20	05/05/20 13:25	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: Parris-01 **Date Sampled: 04/30/20 9:35** **Lab ID: 20043004-01**

Volatile Organic Compounds Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Naphthalene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
n-Propylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Styrene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Tetrachloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:25	GFH
Toluene	ND	ug/L	0.5	1000	EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,2,3-Trichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,2,4-Trichlorobenzene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,1,1-Trichloroethane	ND	ug/L	0.5	200	EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,1,2-Trichloroethane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:25	GFH
Trichloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:25	GFH
Trichlorofluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,2,3-Trichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,2,4-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
1,3,5-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Vinyl chloride	ND	ug/L	0.5	2	EPA 524.2	05/05/20	05/05/20 13:25	GFH
m&p-Xylene	ND	ug/L	1	7500	EPA 524.2	05/05/20	05/05/20 13:25	GFH
o-Xylene	ND	ug/L	0.5	2500	EPA 524.2	05/05/20	05/05/20 13:25	GFH
tert-Butanol (TBA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
Diisopropyl ether (DIPE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 13:25	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:25	GFH

Approved by: Matt Cohen
QC Chemist

Notes/Qualifiers:

LLQ- Lowest Level of Quantitation

MCL - Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are associated with regulated analytes. They are enforceable standards.

ND - Not Detected at a concentration greater than or equal to the LLQ.

The above analyses performed by Maryland State Certified Water Quality Laboratory #320.

* - Methyl t-butyl ether (MTBE) limit based on MDE guidance document. It is not federally promulgated or enforceable.

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: FB-01 **Date Sampled: 04/30/20 9:40** **Lab ID: 20043004-02**

Volatile Organic Compounds Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Benzene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:53	GFH
Bromobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Bromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Bromodichloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Bromoform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Bromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
n-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
sec-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
tert-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Carbon tetrachloride	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:53	GFH
Chlorobenzene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 13:53	GFH
Chloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Chloroform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Chloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
2-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
4-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Dibromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Dibromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,2-Dichlorobenzene	ND	ug/L	0.5	600	EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,3-Dichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,4-Dichlorobenzene	ND	ug/L	0.5	75	EPA 524.2	05/05/20	05/05/20 13:53	GFH
Dichlorodifluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,1-Dichloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,1-Dichloroethene	ND	ug/L	0.5	7	EPA 524.2	05/05/20	05/05/20 13:53	GFH
cis-1,2-Dichloroethene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 13:53	GFH
trans-1,2-Dichloroethene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,2-Dichloropropane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,3-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
2,2-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,1-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
cis-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
trans-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Ethylbenzene	ND	ug/L	0.5	700	EPA 524.2	05/05/20	05/05/20 13:53	GFH
Isopropylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
p-Isopropyltoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Hexachlorobutadiene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Methylene chloride	ND	ug/L	1.5	5	EPA 524.2	05/05/20	05/05/20 13:53	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	0.5	* 20	EPA 524.2	05/05/20	05/05/20 13:53	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: FB-01 **Date Sampled: 04/30/20 9:40** **Lab ID: 20043004-02**

Volatile Organic Compounds Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Naphthalene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
n-Propylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Styrene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Tetrachloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:53	GFH
Toluene	ND	ug/L	0.5	1000	EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,2,3-Trichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,2,4-Trichlorobenzene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,1,1-Trichloroethane	ND	ug/L	0.5	200	EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,1,2-Trichloroethane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:53	GFH
Trichloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 13:53	GFH
Trichlorofluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,2,3-Trichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,2,4-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
1,3,5-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Vinyl chloride	ND	ug/L	0.5	2	EPA 524.2	05/05/20	05/05/20 13:53	GFH
m&p-Xylene	ND	ug/L	1	7500	EPA 524.2	05/05/20	05/05/20 13:53	GFH
o-Xylene	ND	ug/L	0.5	2500	EPA 524.2	05/05/20	05/05/20 13:53	GFH
tert-Butanol (TBA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
Diisopropyl ether (DIPE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 13:53	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 13:53	GFH

Approved by: Matt Cohen
QC Chemist

Notes/Qualifiers:

LLQ- Lowest Level of Quantitation

MCL - Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are associated with regulated analytes. They are enforceable standards.

ND - Not Detected at a concentration greater than or equal to the LLQ.

The above analyses performed by Maryland State Certified Water Quality Laboratory #320.

* - Methyl t-butyl ether (MTBE) limit based on MDE guidance document. It is not federally promulgated or enforceable.

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: Parris-02 **Date Sampled: 04/30/20 9:37** **Lab ID: 20043004-03**

Volatile Organic Compounds Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Benzene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:20	GFH
Bromobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Bromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Bromodichloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Bromoform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Bromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
n-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
sec-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
tert-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Carbon tetrachloride	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:20	GFH
Chlorobenzene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 14:20	GFH
Chloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Chloroform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Chloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
2-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
4-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Dibromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Dibromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,2-Dichlorobenzene	ND	ug/L	0.5	600	EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,3-Dichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,4-Dichlorobenzene	ND	ug/L	0.5	75	EPA 524.2	05/05/20	05/05/20 14:20	GFH
Dichlorodifluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,1-Dichloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,1-Dichloroethene	ND	ug/L	0.5	7	EPA 524.2	05/05/20	05/05/20 14:20	GFH
cis-1,2-Dichloroethene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 14:20	GFH
trans-1,2-Dichloroethene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,2-Dichloropropane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,3-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
2,2-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,1-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
cis-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
trans-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Ethylbenzene	ND	ug/L	0.5	700	EPA 524.2	05/05/20	05/05/20 14:20	GFH
Isopropylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
p-Isopropyltoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Hexachlorobutadiene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Methylene chloride	ND	ug/L	1.5	5	EPA 524.2	05/05/20	05/05/20 14:20	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	0.5	* 20	EPA 524.2	05/05/20	05/05/20 14:20	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: Parris-02 **Date Sampled: 04/30/20 9:37** **Lab ID: 20043004-03**

Volatile Organic Compounds Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Naphthalene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
n-Propylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Styrene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Tetrachloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:20	GFH
Toluene	ND	ug/L	0.5	1000	EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,2,3-Trichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,2,4-Trichlorobenzene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,1,1-Trichloroethane	ND	ug/L	0.5	200	EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,1,2-Trichloroethane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:20	GFH
Trichloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:20	GFH
Trichlorofluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,2,3-Trichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,2,4-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
1,3,5-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Vinyl chloride	ND	ug/L	0.5	2	EPA 524.2	05/05/20	05/05/20 14:20	GFH
m&p-Xylene	ND	ug/L	1	7500	EPA 524.2	05/05/20	05/05/20 14:20	GFH
o-Xylene	ND	ug/L	0.5	2500	EPA 524.2	05/05/20	05/05/20 14:20	GFH
tert-Butanol (TBA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
Diisopropyl ether (DIPE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 14:20	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:20	GFH

Approved by: Matt Cohen
QC Chemist

Notes/Qualifiers:

LLQ- Lowest Level of Quantitation

MCL - Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are associated with regulated analytes. They are enforceable standards.

ND - Not Detected at a concentration greater than or equal to the LLQ.

The above analyses performed by Maryland State Certified Water Quality Laboratory #320.

* - Methyl t-butyl ether (MTBE) limit based on MDE guidance document. It is not federally promulgated or enforceable.

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: D. Kaminkow-01 **Date Sampled: 04/30/20 10:15** **Lab ID: 20043004-04**

Volatile Organic Compounds Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Benzene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:47	GFH
Bromobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Bromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Bromodichloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Bromoform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Bromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
n-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
sec-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
tert-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Carbon tetrachloride	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:47	GFH
Chlorobenzene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 14:47	GFH
Chloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Chloroform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Chloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
2-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
4-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Dibromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Dibromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,2-Dichlorobenzene	ND	ug/L	0.5	600	EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,3-Dichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,4-Dichlorobenzene	ND	ug/L	0.5	75	EPA 524.2	05/05/20	05/05/20 14:47	GFH
Dichlorodifluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,1-Dichloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,1-Dichloroethene	ND	ug/L	0.5	7	EPA 524.2	05/05/20	05/05/20 14:47	GFH
cis-1,2-Dichloroethene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 14:47	GFH
trans-1,2-Dichloroethene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,2-Dichloropropane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,3-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
2,2-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,1-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
cis-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
trans-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Ethylbenzene	ND	ug/L	0.5	700	EPA 524.2	05/05/20	05/05/20 14:47	GFH
Isopropylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
p-Isopropyltoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Hexachlorobutadiene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Methylene chloride	ND	ug/L	1.5	5	EPA 524.2	05/05/20	05/05/20 14:47	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	0.5	* 20	EPA 524.2	05/05/20	05/05/20 14:47	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: D. Kaminkow-01 **Date Sampled: 04/30/20 10:15** **Lab ID: 20043004-04**

Volatile Organic Compounds Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Naphthalene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
n-Propylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Styrene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Tetrachloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:47	GFH
Toluene	ND	ug/L	0.5	1000	EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,2,3-Trichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,2,4-Trichlorobenzene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,1,1-Trichloroethane	ND	ug/L	0.5	200	EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,1,2-Trichloroethane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:47	GFH
Trichloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 14:47	GFH
Trichlorofluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,2,3-Trichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,2,4-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
1,3,5-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Vinyl chloride	ND	ug/L	0.5	2	EPA 524.2	05/05/20	05/05/20 14:47	GFH
m&p-Xylene	ND	ug/L	1	7500	EPA 524.2	05/05/20	05/05/20 14:47	GFH
o-Xylene	ND	ug/L	0.5	2500	EPA 524.2	05/05/20	05/05/20 14:47	GFH
tert-Butanol (TBA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
Diisopropyl ether (DIPE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 14:47	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 14:47	GFH

Approved by: Matt Cohen
QC Chemist

Notes/Qualifiers:

LLQ- Lowest Level of Quantitation

MCL - Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are associated with regulated analytes. They are enforceable standards.

ND - Not Detected at a concentration greater than or equal to the LLQ.

The above analyses performed by Maryland State Certified Water Quality Laboratory #320.

* - Methyl t-butyl ether (MTBE) limit based on MDE guidance document. It is not federally promulgated or enforceable.

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: FB-02 **Date Sampled: 04/30/20 10:17** **Lab ID: 20043004-05**

Volatile Organic Compounds Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Benzene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:14	GFH
Bromobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Bromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Bromodichloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Bromoform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Bromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
n-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
sec-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
tert-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Carbon tetrachloride	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:14	GFH
Chlorobenzene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 15:14	GFH
Chloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Chloroform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Chloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
2-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
4-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Dibromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Dibromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,2-Dichlorobenzene	ND	ug/L	0.5	600	EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,3-Dichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,4-Dichlorobenzene	ND	ug/L	0.5	75	EPA 524.2	05/05/20	05/05/20 15:14	GFH
Dichlorodifluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,1-Dichloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,1-Dichloroethene	ND	ug/L	0.5	7	EPA 524.2	05/05/20	05/05/20 15:14	GFH
cis-1,2-Dichloroethene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 15:14	GFH
trans-1,2-Dichloroethene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,2-Dichloropropane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,3-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
2,2-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,1-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
cis-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
trans-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Ethylbenzene	ND	ug/L	0.5	700	EPA 524.2	05/05/20	05/05/20 15:14	GFH
Isopropylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
p-Isopropyltoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Hexachlorobutadiene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Methylene chloride	ND	ug/L	1.5	5	EPA 524.2	05/05/20	05/05/20 15:14	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	0.5	* 20	EPA 524.2	05/05/20	05/05/20 15:14	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: FB-02 **Date Sampled: 04/30/20 10:17** **Lab ID: 20043004-05**

Volatile Organic Compounds Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Naphthalene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
n-Propylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Styrene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Tetrachloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:14	GFH
Toluene	ND	ug/L	0.5	1000	EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,2,3-Trichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,2,4-Trichlorobenzene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,1,1-Trichloroethane	ND	ug/L	0.5	200	EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,1,2-Trichloroethane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:14	GFH
Trichloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:14	GFH
Trichlorofluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,2,3-Trichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,2,4-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
1,3,5-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Vinyl chloride	ND	ug/L	0.5	2	EPA 524.2	05/05/20	05/05/20 15:14	GFH
m&p-Xylene	ND	ug/L	1	7500	EPA 524.2	05/05/20	05/05/20 15:14	GFH
o-Xylene	ND	ug/L	0.5	2500	EPA 524.2	05/05/20	05/05/20 15:14	GFH
tert-Butanol (TBA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
Diisopropyl ether (DIPE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 15:14	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:14	GFH

Approved by: Matt Cohen
QC Chemist

Notes/Qualifiers:

LLQ- Lowest Level of Quantitation

MCL - Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are associated with regulated analytes. They are enforceable standards.

ND - Not Detected at a concentration greater than or equal to the LLQ.

The above analyses performed by Maryland State Certified Water Quality Laboratory #320.

* - Methyl t-butyl ether (MTBE) limit based on MDE guidance document. It is not federally promulgated or enforceable.

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: Trip Blank — **Date Sampled: 04/30/20 0:00** — **Lab ID: 20043004-06**

Volatile Organic Compounds — Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Benzene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:41	GFH
Bromobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Bromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Bromodichloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Bromoform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Bromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
n-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
sec-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
tert-Butylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Carbon tetrachloride	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:41	GFH
Chlorobenzene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 15:41	GFH
Chloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Chloroform	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Chloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
2-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
4-Chlorotoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Dibromochloromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,2-Dibromoethane (EDB)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Dibromomethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,2-Dichlorobenzene	ND	ug/L	0.5	600	EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,3-Dichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,4-Dichlorobenzene	ND	ug/L	0.5	75	EPA 524.2	05/05/20	05/05/20 15:41	GFH
Dichlorodifluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,1-Dichloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,2-Dichloroethane (EDC)	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,1-Dichloroethene	ND	ug/L	0.5	7	EPA 524.2	05/05/20	05/05/20 15:41	GFH
cis-1,2-Dichloroethene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 15:41	GFH
trans-1,2-Dichloroethene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,2-Dichloropropane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,3-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
2,2-Dichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,1-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
cis-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
trans-1,3-Dichloropropene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Ethylbenzene	ND	ug/L	0.5	700	EPA 524.2	05/05/20	05/05/20 15:41	GFH
Isopropylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
p-Isopropyltoluene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Hexachlorobutadiene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Methylene chloride	ND	ug/L	1.5	5	EPA 524.2	05/05/20	05/05/20 15:41	GFH
Methyl t-butyl ether (MTBE)	ND	ug/L	0.5	* 20	EPA 524.2	05/05/20	05/05/20 15:41	GFH

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CALIBER ANALYTICAL SERVICES

Certificate of Analysis

Colonial Pipeline Co.
929 Hoods Mill Rd.
Woodbine, MD 21797

Date Received: 04/30/20 11:55
Date Issued: 05/07/20 12:22
Matrix: Drinking Water

Project: Bel Air Station
Site Location: Bel Air, MD
Project No.: Residences

SDG Number: 20043004

Field Sample ID: Trip Blank — **Date Sampled: 04/30/20 0:00** — **Lab ID: 20043004-06**

Volatile Organic Compounds — Batch: 23610

	Result	Unit	LLQ	MCL	Method	Prepared	Analyzed	Init.
Naphthalene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
n-Propylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Styrene	ND	ug/L	0.5	100	EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Tetrachloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:41	GFH
Toluene	ND	ug/L	0.5	1000	EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,2,3-Trichlorobenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,2,4-Trichlorobenzene	ND	ug/L	0.5	70	EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,1,1-Trichloroethane	ND	ug/L	0.5	200	EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,1,2-Trichloroethane	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:41	GFH
Trichloroethene	ND	ug/L	0.5	5	EPA 524.2	05/05/20	05/05/20 15:41	GFH
Trichlorofluoromethane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,2,3-Trichloropropane	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,2,4-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
1,3,5-Trimethylbenzene	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Vinyl chloride	ND	ug/L	0.5	2	EPA 524.2	05/05/20	05/05/20 15:41	GFH
m&p-Xylene	ND	ug/L	1	7500	EPA 524.2	05/05/20	05/05/20 15:41	GFH
o-Xylene	ND	ug/L	0.5	2500	EPA 524.2	05/05/20	05/05/20 15:41	GFH
tert-Butanol (TBA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Ethyl t-butyl ether (ETBE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
Diisopropyl ether (DIPE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
tert-Amyl methyl ether (TAME)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
tert-Amyl alcohol (TAA)	ND	ug/L	5		EPA 524.2	05/05/20	05/05/20 15:41	GFH
tert-Amyl ethyl ether (TAEE)	ND	ug/L	0.5		EPA 524.2	05/05/20	05/05/20 15:41	GFH

Approved by: Matt Cohen
QC Chemist

Notes/Qualifiers:

LLQ- Lowest Level of Quantitation

MCL - Maximum Contaminant Level. The highest level of a contaminant that is allowed in drinking water. MCLs are associated with regulated analytes. They are enforceable standards.

ND - Not Detected at a concentration greater than or equal to the LLQ.

The above analyses performed by Maryland State Certified Water Quality Laboratory #320.

* - Methyl t-butyl ether (MTBE) limit based on MDE guidance document. It is not federally promulgated or enforceable.

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CALIBER ANALYTICAL SERVICES

8851 Orchard Tree Lane Towson, MD 21286
Phone: 410.825.1151
Fax: 410.825.2126
www.caslabs.net

Chain of Custody Record

Customer:	Colonial Pipeline
Contact/Report to:	Rob Shenk
Phone:	
Fax:	

E-mail address:	rshenk@colpipe.com
Project Name:	Bel Air Station
Project Location:	Fallston MD
Project Number:	

SDG Number:	20043004
Sampled by:	S. Spreckley
PO Number:	

Page 1 of 1

Analysis Requested

Lab Number	Field Sample ID	Date Sampled	Time Sampled	No. of Bottles	Matrix *	VOC 524.2 + Ethyl oxygenates	Naphthalene									No. of Encores (EPA 5035)	Sampling Remarks/ Comments
Preservative:					Field		HCl	HCl									Date/Time:
					Lab												
	Parris-01	4/30/20	0935	3	GW	X	X										
	FB-001	↑	0940	2	AQ	X	X										
	Parris-02		0937	3	GW	X	X										
	D. Kaminkov-01		1015	3	GW	X	X										
	FB-002	4/30/20	1017	2	AQ	X	X										
	trip blank	—	—	2	AQ	X	X										

Relinquished by:	Sandra J Spreckley	Date/Time:	4/30/20 / 1110
Received by:	[signature]	Date/Time:	4/30/20 / 1110
Relinquished by:	[signature]	Date/Time:	4/30/20 / 1155
Received by:	[signature]	Date/Time:	4/30/20 / 1155
Relinquished by:		Date/Time:	/
Received by:		Date/Time:	/

Deliverables: I II III CLP EDD

Receipt Temp (°C): 6.9 On Ice N/A Same Day

Turnaround Time: STD Next Day 2-Day Other____

Custody Seals: Sample Cooler

Delivered by client CAS Courier

Comments/Special Instructions:

* DW = Drinking Water | GW = Groundwater | SW = Surface Water | W = Water | WW = Wastewater | S = Soil | SED = Sediment | SL = Sludge | O = Oil / Fuel

CALIBER ANALYTICAL SERVICES

VOLATILES

SYSTEM MONITORING COMPOUND RECOVERY (SURROGATES)

METHOD:	**EPA 524.2**	**LAB CODE:**	**SURR**
MATRIX:	**DRINKING WATER**	**BATCH NUMBER:**	**23610**

Sample ID	Date/Time Analyzed	1,2-Dichlorobenzene-d4	4-Bromofluorobenzene
Parris-01 / 20043004-01	5/5/2020 1:25:00 PM	96	98
FB-01 / 20043004-02	5/5/2020 1:53:00 PM	98	99
Parris-02 / 20043004-03	5/5/2020 2:20:00 PM	96	101
D. Kaminkow-01 / 20043004-04	5/5/2020 2:47:00 PM	95	98
FB-02 / 20043004-05	5/5/2020 3:14:00 PM	95	98
Trip Blank / 20043004-06	5/5/2020 3:41:00 PM	95	97
	Upper Limit	120	120
	Lower Limit	70	70

* - Indicates values outside of QC control limits.

CALIBER ANALYTICAL SERVICES

VOLATILES
LABORATORY CONTROL SAMPLE SUMMARY

METHOD: EPA 524.2 **BATCH NUMBER:** 23610

MATRIX: DRINKING WATER **INSTRUMENT:** VOC1

SAMPLE ID: LCS
DATE ANALYZED: 5/5/2020 12:03:00 PM
LAB FILE IDs: 03.D

SAMPLE SPIKE COMPOUND	SPIKE ADDED (ppb)	SAMPLE CONC (ppb)	SPIKE CONC (ppb)	SPIKE REC (%)	QC LIMITS (%)
1,2,4-TRICHLOROBENZENE	5	NA	6.1	121	93 - 132
1,2-DICHLOROBENZENE	5	NA	5.7	114	85 - 127
BROMOBENZENE	5	NA	5.6	113	86 - 125
BROMODICHLOROMETHANE	5	NA	5.8	115	82 - 123
CHLOROBENZENE	5	NA	6.0	120	87 - 127
CHLOROFORM	5	NA	5.8	116	84 - 123
METHYL T-BUTYL ETHER (MTBE)	5	NA	5.7	115	67 - 118
STYRENE	5	NA	5.9	117	86 - 129
TERT-BUTYLBENZENE	5	NA	5.9	118	93 - 137
TETRACHLOROETHENE	5	NA	6.2	124	93 - 135
TOLUENE	5	NA	6.2	124	89 - 127
TRICHLOROETHENE	5	NA	6.0	120	80 - 130

SAMPLE ID: LCSD
DATE ANALYZED: 5/5/2020 5:03:00 PM
LAB FILE IDs: 14.D

SAMPLE SPIKE COMPOUND	SPIKE ADDED (ppb)	SAMPLE CONC (ppb)	SPK DUP CONC (ppb)	SPK DUP REC (%)	RPD (%)	QC RPD (%)	QC LIMITS (%)
1,2,4-TRICHLOROBENZENE	5	NA	5.5	111	9.0	20	93 - 132
1,2-DICHLOROBENZENE	5	NA	5.2	105	8.2	20	85 - 127
BROMOBENZENE	5	NA	5.3	105	7.0	20	86 - 125
BROMODICHLOROMETHANE	5	NA	5.2	105	9.6	20	82 - 123
CHLOROBENZENE	5	NA	5.7	114	5.5	20	87 - 127
CHLOROFORM	5	NA	5.3	106	8.5	20	84 - 123
METHYL T-BUTYL ETHER (MTBE)	5	NA	4.9	98	15.6	20	67 - 118
STYRENE	5	NA	5.6	112	4.9	20	86 - 129
TERT-BUTYLBENZENE	5	NA	5.4	108	9.2	20	93 - 137
TETRACHLOROETHENE	5	NA	5.7	113	9.1	20	93 - 135
TOLUENE	5	NA	5.8	115	7.5	20	89 - 127
TRICHLOROETHENE	5	NA	5.9	118	2.4	20	80 - 130

* - Indicates values outside of QC control limits.

Calculations:

$$\%\text{Recovery} = \left[\frac{(\text{Spike Conc.-Sample Conc.})}{\text{Spike Added}}\right] * 100$$

$$\text{Relative Percent Difference (RPD)} = \left|\frac{(\text{Spike Dup Conc.-Spike Conc.})}{\left(\frac{(\text{Spike Dup Conc.} + \text{Spike Conc.})}{2}\right)}\right| * 100$$

CALIBER ANALYTICAL SERVICES

METHOD BLANK RESULTS

Analysis: Volatiles | **Batch ID:** 23610

Matrix: Drinking Water | **Batch Date:** 5/5/2020

	Result	Unit	Method	LLQ	Date / Time Analyzed
Benzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Bromobenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Bromochloromethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Bromodichloromethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Bromoform	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Bromomethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
n-Butylbenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
sec-Butylbenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
tert-Butylbenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Carbon tetrachloride	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
CHLOROBENZENE	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Chloroethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
CHLOROFORM	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Chloromethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
2-Chlorotoluene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
4-Chlorotoluene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Dibromochloromethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,2-Dibromo-3-chloropropane (DBCP)	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,2-Dibromoethane (EDB)	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Dibromomethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,2-Dichlorobenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,3-Dichlorobenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,4-Dichlorobenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Dichlorodifluoromethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,1-Dichloroethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,2-Dichloroethane (EDC)	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,1-DICHLOROETHENE	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
cis-1,2-Dichloroethene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
trans-1,2-Dichloroethene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,2-DICHLOROPROPANE	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,3-Dichloropropane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
2,2-Dichloropropane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,1-Dichloropropene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
cis-1,3-Dichloropropene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
trans-1,3-Dichloropropene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
ETHYLBENZENE	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Isopropylbenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30

CALIBER ANALYTICAL SERVICES

METHOD BLANK RESULTS

Analysis: Volatiles | **Batch ID:** 23610

Matrix: Drinking Water | **Batch Date:** 5/5/2020

	Result	Unit	Method	LLQ	Date / Time Analyzed
p-Isopropyltoluene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Hexachlorobutadiene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Methylene chloride	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Methyl t-butyl ether (MTBE)	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Naphthalene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
n-Propylbenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Styrene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,1,1,2-Tetrachloroethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,1,2,2-Tetrachloroethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Tetrachloroethene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
TOLUENE	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,2,3-Trichlorobenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,2,4-Trichlorobenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,1,1-Trichloroethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,1,2-Trichloroethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Trichloroethene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Trichlorofluoromethane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,2,3-Trichloropropane	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,2,4-Trimethylbenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
1,3,5-Trimethylbenzene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
VINYL CHLORIDE	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
m&p-Xylene	ND	ug/L	EPA 524.2	1.0	05/05/20 12:30
o-Xylene	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
tert-Butanol (TBA)	ND	ug/L	EPA 524.2	5.0	05/05/20 12:30
Ethyl t-butyl ether (ETBE)	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
Diisopropyl ether (DIPE)	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
tert-Amyl methyl ether (TAME)	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30
tert-Amyl alcohol (TAA)	ND	ug/L	EPA 524.2	5.0	05/05/20 12:30
tert-Amyl ethyl ether (TAEE)	ND	ug/L	EPA 524.2	0.5	05/05/20 12:30

Notes/Comments:

LLQ - Lowest Level of Quantitation

ND - Not Detected at a concentration greater than or equal to the LLQ.